CATALOG

OF THE

UNIVERSITY OF MAINE

1906-1907

ORONO, MAINE

AUGUSTA
KENNEBEC JOURNAL PRINT
1906
**CALENDAR**

**FALL TERM, 1906**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 17</td>
<td>Monday</td>
<td>Arrearage examinations begin.</td>
</tr>
<tr>
<td>September 18</td>
<td>Tuesday</td>
<td>Entrance examinations begin.</td>
</tr>
<tr>
<td>September 19</td>
<td>Wednesday</td>
<td>Registration begins, 1:30 P.M.</td>
</tr>
<tr>
<td>September 20</td>
<td>Thursday</td>
<td>Fall term begins.</td>
</tr>
<tr>
<td>November 27</td>
<td>Tuesday</td>
<td>Meeting of the Board of Trustees.</td>
</tr>
<tr>
<td>November 28</td>
<td>Wednesday</td>
<td>Thanksgiving recess begins, 5:30 P.M.</td>
</tr>
<tr>
<td>December 3</td>
<td>Monday</td>
<td>Thanksgiving recess ends, 12 P.M.</td>
</tr>
<tr>
<td>December 7</td>
<td>Friday</td>
<td>Sophomore prize declamations.</td>
</tr>
<tr>
<td>December 22</td>
<td>Saturday</td>
<td>Christmas recess begins, 5:30 P.M.</td>
</tr>
<tr>
<td>December 29</td>
<td>Saturday</td>
<td>Arrearage examinations begin (Spring term studies).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>January</td>
<td>2</td>
<td>Christmas recess ends, 7:45 A.M.</td>
</tr>
<tr>
<td>February</td>
<td>1</td>
<td>Fall term ends.</td>
</tr>
</tbody>
</table>

**SPRING TERM, 1907**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 2</td>
<td>Saturday</td>
<td>Registration.</td>
</tr>
<tr>
<td>February 4</td>
<td>Monday</td>
<td>Spring term begins.</td>
</tr>
<tr>
<td>February 22</td>
<td>Friday</td>
<td>Washington's birthday, a holiday.</td>
</tr>
<tr>
<td>April 1</td>
<td>Monday</td>
<td>Spring recess begins, 7:45 A.M.</td>
</tr>
<tr>
<td>April 5</td>
<td>Friday</td>
<td>Arrearage examinations begin (Fall term studies).</td>
</tr>
<tr>
<td>April 8</td>
<td>Monday</td>
<td>Spring recess ends, 7:45 A.M.</td>
</tr>
<tr>
<td>April</td>
<td>20-26</td>
<td>Fast day, a holiday.</td>
</tr>
<tr>
<td>May</td>
<td>6-9</td>
<td>Entrance examinations begin.</td>
</tr>
<tr>
<td>June</td>
<td>9-10</td>
<td>Baccalaureate address.</td>
</tr>
<tr>
<td>June</td>
<td>10</td>
<td>Convocation.</td>
</tr>
<tr>
<td>June</td>
<td>10</td>
<td>Class day.</td>
</tr>
<tr>
<td>June</td>
<td>10</td>
<td>Reception by the President.</td>
</tr>
<tr>
<td>June</td>
<td>11</td>
<td>Meeting by the Board of Trustees.</td>
</tr>
<tr>
<td>June</td>
<td>11</td>
<td>Receptions by the fraternities.</td>
</tr>
<tr>
<td>June</td>
<td>11</td>
<td>Alumni luncheon.</td>
</tr>
<tr>
<td>June</td>
<td>11</td>
<td>Address before the Phi Kappa Phi Society.</td>
</tr>
<tr>
<td>June</td>
<td>12</td>
<td>COMMENCEMENT.</td>
</tr>
<tr>
<td>June</td>
<td>12</td>
<td>Commencement dinner.</td>
</tr>
<tr>
<td>June</td>
<td>12</td>
<td>Meeting of the Alumni Association.</td>
</tr>
<tr>
<td>June</td>
<td>12</td>
<td>Commencement concert.</td>
</tr>
<tr>
<td>July</td>
<td>1-2</td>
<td>Summer term begins.</td>
</tr>
<tr>
<td>August</td>
<td>2-3</td>
<td>Summer term ends.</td>
</tr>
</tbody>
</table>
FALL TERM, 1907

September 16, Monday, Arrearage examinations begin.
September 17, Tuesday, Entrance examinations begin.
September 18, Wednesday, Registration begins, 1.30 P. M.
September 19, Thursday, Fall term begins.
November 26, Tuesday, Meeting of the Board of Trustees.
November 27, Wednesday, Thanksgiving recess begins, 5.30 P. M.
December 2, Monday, Thanksgiving recess ends, 12 M.
December 6, Friday, Sophomore prize declamations.
December 22, Sunday, Christmas recess begins, 5.30 P. M.
December 28, Saturday, Arrearage examinations begin (Spring term studies).

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

SPRING TERM, 1908

February 1, Saturday, Registration.
February 3, Monday, Spring term begins.
June 10, Wednesday, COMMENCEMENT.

CALENDAR OF THE COLLEGE OF LAW

1906
October 3, Wednesday, Fall term begins.
December 19, Wednesday, Fall term ends.

1907
January 9, Wednesday, Winter term begins.
March 20, Wednesday, Winter term ends.
March 27, Wednesday, Spring term begins.
June 12, Wednesday, COMMENCEMENT.
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 26, Wednesday, Spring term begins.
June 10, Wednesday, COMMENCEMENT.
THE BOARD OF TRUSTEES

Hon. HENRY LORD, President
Hon. ELLIOTT WOOD, Secretary
Hon. EDWARD BRACKETT WINSLOW
Hon. JOHN ALFRED ROBERTS, M. A.
Hon. ALBERT JOSEPH DURGIN
Hon. CHARLES LESTER JONES
EDWIN JAMES HASKELL, B. S.
Hon. WILLIAM THOMAS HAINES, LL. B., LL. D.

EXECUTIVE COMMITTEE
Trustees LORD and WINSLOW

TREASURER
Hon. ISAIAH KIDDER STETSON, Ph. B.

ADVISORY BOARD FOR THE COLLEGE OF LAW
Gen. CHARLES HAMLIN, M. A., President
Hon. HENRY BRADSTREET CLEAVES
Justice ALBERT MOORE SPEAR
Hon. WILLIAM THOMAS HAINES, LL. D.
Hon. HERBERT MILTON HEATH, M. A.
Chief Justice ANDREW PETERS WISWELL, LL. D.
Dean WILLIAM EMANUEL WALZ, M. A., LL. B., Secretary
THE EXPERIMENT STATION COUNCIL

President GEORGE EMORY FELLOWS, Ph. D., LL.D.  Secretary
Director CHARLES DAYTON WOODS, Sc. D.
JOHN ALFRED ROBERTS, M. A., Norway
ALBERT JOSEPH DURGIN, Orono
CHARLES LESTER JONES, Corinna
AUGUSTUS Wm. GILMAN, Foxcroft
EUGENE HARVEY LIBBY, Auburn
CHARLES S. POPE, Manchester
RUTILLUS ALDEN, Winthrop
JAMES MONROE BARTLETT, M. S.
LUCIUS HERBERT MERRILL, B. S.
FREMONT LINCOLN RUSSELL, V. S.
WELTON MARKS MUNSON, Ph. D.
GILBERT MOTTIER GOWELL, M. S.
EDITH MARION PATCH, B. S.
WARNER JACKSON MORSE, M. S.
The University of Maine

ALUMNI ASSOCIATIONS

THE GENERAL ASSOCIATION
President, J. M. Oak, '73, Bangor
Secretary, F. L. Russell, '85, Orono
Corresponding Secretary, R. K. Jones, '86, Orono
Treasurer, A. H. Brown, '90, Oldtown
Necrologist, J. N. Hart, '85, Orono

THE WEST MAINE ASSOCIATION
President, R. W. Eaton, '73, Brunswick
Secretary and Treasurer, A. C. Wescott, '99, 7 Exchange St., Portland

THE NORTH MAINE ASSOCIATION
President, Harvey B. Thayer, '73, Presque Isle
Secretary, N. H. Martin, '76, Fort Fairfield

THE BOSTON ASSOCIATION
President, Samuel D. Thompson, '01, Wollaston, Mass.
Secretary, Walter N. Cargill, '00, Lynn, Mass.

THE NEW YORK ASSOCIATION
President, Chas. H. Kilbourne, 2254 Seventh Ave., N. Y. City
Secretary, Ralph Hamlin, 500 Twelfth St., Brooklyn

THE WASHINGTON (D. C.) ASSOCIATION
President, P. L. Ricker, U. S. Dept. Ag.
Secretary and Treasurer, H. P. Gould, U. S. Dept. Ag.

THE PENOBSCOT VALLEY ASSOCIATION
President, Charles E. Oak, '76, Bangor
Secretary, Frank H. Damon, '95, Bangor

7
The Western Association

President, G. W. Sturtevant, '81, 1208 Fisher Building, Chicago
First Vice-President, C. W. Rogers, '76, 1896 Aldine Ave., Chicago.
Second Vice-President, M. C. Wiley, '03, 501 Lasalle Ave., Chicago
Secretary and Treasurer, Wm. Webber, '84, 889 Sawyer Ave., Chicago

The Pittsburg Association

President, A. G. Mitchell, '75, 6007 Walnut St.
Vice-President, G. W. Hutchinson, '93, Greensburg, Pa.
Secretary and Treasurer, H. E. Cole, '02, 1023 Park Building

The Schenectady Association

President, J. G. Lurvey, '00, 1206 State St.
Vice-President, C. N. Rackliffe, '02, 1206 State St.
Secretary, H. E. Duren, '02, 306 Lafayette St.
Treasurer, H. F. Hoxie, '99, 940 State St.
Executive Committee, C. W. Bartlett, '01, H. P. Mayo, '99,
H. E. Duren, '02

The Kennebec Valley Association

President, D. H. Perkins, '00, Skowhegan
Secretary, E. A. Parker, '04, Skowhegan
Treasurer, Harold Cook, '00, Waterville
Executive Committee, D. W. Colby, '85; Harold Cook, '00; John
Steward, '91; D. H. Perkins, '00; John Burleigh, '87
Legislative Committee, Samuel Gould, '77, Wm. T. Haines, '76,
Roy Flynt, '04

The University of Maine
OFFICERS OF ADMINISTRATION

GEORGE EMORY FELLOW S, President
JAMES NORRIS HART, Dean
JAMES STACY STEVENS, Dean in the College of Arts and Sciences
CHARLES DAYTON WOODS, Director of the Experiment Station
WILLIAM EMANUEL WALZ, Dean in the College of Law
WILLIAM DANIEL HURD, Acting Dean in the College of Agriculture
ELIZABETH ABBOTT BALENTINE, Secretary of the Faculty

THE FACULTY OF INSTRUCTION AND INVESTIGATION

GEORGE EMORY FELLOW S, Ph. D., L. H. D., LL. D. Campus
President
Professor of History
MERRITT CALDWELL FERNALD, Ph. D., LL. D. 54 Main Street
Professor of Philosophy
ALFRED BELLAMY AUBERT, M. S. 53 Main Street
Professor of Chemistry
† ALLEN ELLINGTON ROGERS, M. A. College Street
Professor of Civics and Constitutional Law
JAMES MONROE BARTLETT, M. S. College Street
Chemist in the Experiment Station
LUCIUS HERBERT MERRILL, B. S. 14 Bennoch Street
Chemist in the Experiment Station
JAMES NORRIS HART, C. E., M. S. College Street
Professor of Mathematics and Astronomy
Dean
FREMONT LINCOLN RUSSELL, B. S., V. S. North Main Street
Professor of Biology, and Veterinarian in the Experiment Station

* Arranged in groups in order of seniority of appointment.
† Absent on leave.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELTON MARKS MUNSON, Ph. D.</td>
<td>Pomologist in the Experiment Station</td>
</tr>
<tr>
<td>HORACE MELVYN ESTABROOKE, M. A.</td>
<td>Professor of English</td>
</tr>
<tr>
<td>JAMES STACY STEVENS, M. S.</td>
<td>Professor of Physics</td>
</tr>
<tr>
<td>DEAN IN THE COLLEGE OF ARTS AND SCIENCES</td>
<td></td>
</tr>
<tr>
<td>GILBERT MOTTIER GOWELL, M. S.</td>
<td>Professor of Animal Industry. In charge of Poultry Experiments in the Experiment Station</td>
</tr>
<tr>
<td>CHARLES DAYTON WOODS, Sc. D.</td>
<td>Director of the Experiment Station</td>
</tr>
<tr>
<td>JOHN HOMER HUDDILSTON, Ph. D.</td>
<td>Professor of Greek</td>
</tr>
<tr>
<td>WILLIAM EMANUEL WALZ, M. A., LL. B.</td>
<td>Professor of Law</td>
</tr>
<tr>
<td>DEAN IN THE COLLEGE OF LAW</td>
<td></td>
</tr>
<tr>
<td>GILMAN ARTHUR DREW, Ph. D.</td>
<td>Professor of Biology</td>
</tr>
<tr>
<td>WILBUR FISK JACKMAN, B. S., Ph. C.</td>
<td>Professor of Pharmacy</td>
</tr>
<tr>
<td>RALPH KNEELAND JONES, B. S.</td>
<td>librarian</td>
</tr>
<tr>
<td>WILLIAM DANIEL HURD, B. S.</td>
<td>Professor of Agronomy</td>
</tr>
<tr>
<td>JACOB BERNARD SEGALL, Ph. D.</td>
<td>Acting Dean in the College of Agriculture</td>
</tr>
<tr>
<td>HAROLD SHERBURN BOARDMAN, C. E.</td>
<td>Professor of Civil Engineering</td>
</tr>
<tr>
<td>GEORGE DAVIS CHASE, Ph. D.</td>
<td>Professor of Latin</td>
</tr>
<tr>
<td>GORDON EDWIN TOWER, B. S., M. F.</td>
<td>Professor of Forestry</td>
</tr>
<tr>
<td>CAROLINE COLVIN, Ph. D.</td>
<td>Professor of History</td>
</tr>
<tr>
<td>ARTHUR CRAWFORD JEWETT, B. S.</td>
<td>Professor of Mechanical Engineering</td>
</tr>
<tr>
<td>WALTER KIERSTEAD GANONG, B. Sc.</td>
<td>Professor of Electrical Engineering</td>
</tr>
<tr>
<td>CHARLES DAVIDSON, Ph. D.</td>
<td>Professor of Education</td>
</tr>
</tbody>
</table>
JOSEPH WILLIAM CARR, Ph. D.
47 Main Street
Professor of Germanic Languages

WARNER JACKSON MORSE, M. S.
7 Main Street
Vegetable Pathologist in the Experiment Station

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

WALTER STEVENS BROWN, First Lieutenant 10th Infantry
Campus
Professor of Military Science and Tactics

EDITH MARION PATCH, B. S.
36 Main Street
Entomologist in the Experiment Station

EDGAR MYRICK SIMPSON, B. A.
5 Broadway, Bangor
Assistant Professor of Law

CHARLES PARTRIDGE WESTON, C. E., M. A.
College Street
Assistant Professor of Mechanics and Drawing. (In Charge of the Department)

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

MAX CARL GUENTHER LENTZ
12 Mill Street
Assistant Professor of Germanic Languages

ARTHUR WITTER GILBERT, M. S.
Campus
Assistant Professor of Agronomy

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

HERMAN HERBERT HANSON, M. S.
61 Main Street
Assistant Chemist in the Experiment Station

EUGENE LOUIS RAICHE
Campus
Instructor in French (Summer Term)

WILLIAM MORTON BARROWS, M. S.
26 Main Street
Instructor in History (Summer Term)

ARCHER LEWIS GROVER, B. S.
14 Mill Street
Instructor in Civil Engineering and Drawing

BERTRAM LEIGH FLETCHER, LL. B.
28 Second Street, Bangor
Instructor in Agency

GEORGE HENRY WORSTER, LL. B.
234 Center Street, Bangor
Instructor in Insurance

* Absent on leave.
The University of Maine

HENRY MARTIN SHUTE, M. A.
Instructor in Romance Languages
44 Main Street

MARSHALL BAXTER CUMMINGS, M. S.
Instructor in Botany
College Street

HARLEY RICHARD WILLARD, M. A.
Instructor in Mathematics
42 Main Street

BARTLETT BROOKS, B. A., LL. B.
10 Columbia Building, Bangor
Instructor in Contracts

MATTHEW HUME BEDFORD, Ph. D.
Instructor in Chemistry
53 Main Street

THOMAS MICHELYNE GURN, B. E., B. A.
Instructor in Mechanical Engineering

WALTER EVERETT PRINCE, M. A.
Instructor in English
8 Forest Avenue

WILLIAM ROSS HAM, B. A.
Instructor in Physics
78 North Main Street

PERCY ANDERSON CAMPBELL, M. S. A.
Instructor in Animal Industry
Campus

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

RALPH LOWE SEABURY, B. S.
53 Main Street
Instructor in Biological and Agricultural Chemistry

CHARLES BARTO BROWN, C. E.
5 Forest Avenue
Instructor in Civil Engineering

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

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

HARRY ALVAH EMERY, B. S.
College Street
Instructor in Civil Engineering

MAXWELL JAY DORSEY, B. S.
78 North Main Street
Instructor in Horticulture

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

12
The University of Maine

JOANNA CARVER COLCORD, B. S. 26 Main Street
Assistant Chemist in the Experiment Station

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, LL. D. Ellsworth
Lecturer on Roman Law and Probate Law

ANDREW PETERS WISWELL, LL. D. Ellsworth
Lecturer on Evidence

LOUIS CARVER SOUTHARD, M. S., LL. D. Boston
Lecturer on Medico-Legal Relations

FLORENCE BALENTINE, B. A. College Street
Tutor in Biology

HENRY WALTER BEARCE, B. S. Campus
Tutor in Physics

ASSISTANTS AND OTHER OFFICERS

STEPHEN JOHN FARRELL Orono House
Assistant in Physical Training

MAUDE BROWN COLCORD 26 Main Street
Assistant in the Library

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

JENNIE ELIZABETH DUNMORE, B. S. College Street
Cataloger in the Library

ANDREW MAYHEW SHAW Park Street
Superintendent of Grounds and Greenhouses

FRANK MORRISON Campus
Foreman of the Farm

HALSEY RICHARDSON WING Campus
Head Janitor
The University of Maine

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

ADDIE GERTRUDE PRESCOTT
Stenographer to the Deans and the Secretary
3 Forest Avenue

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
Poultryman
Campus

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

*STANDING COMMITTEES OF THE FACULTY*

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

Admission to Examinations
Professor Fernald, Professor Ganong, Professor Weston.

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.

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

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

Bulletins
Professor Jones, Professor Merrill, Professor Wheeler.

Catalog
Professor Stevens.

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

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

Delinquent Students
Professor Boardman, Mr. Grover, Professor Hurd, Mr. Shute,
Mr. Willard.

Entrance Examinations
Professor Stevens.

Fitting Schools
Professor Estabrooke, Professor Chase, Professor Davidson, Professor Fernand,
Professor Hart, Professor Huddilston, Professor Stevens.

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

Honors
Professor Stevens, Professor Carr, Professor Drew,
Professor Huddilston.

Lectures
Professor Drew, Professor Chase, Professor Segall.

Library
Professor Jones, Professor Colvin, Professor Estabrooke,
Professor Jackman.
The University of Maine

Military Work
Lieut. Brown, Professor Jewett, Director Woods.

Musical Organizations
Professor Jones, Professor Lentz, Professor Tower.

Press
Professor Jones, Mr. Morley, 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.

Tuition Loans
President Fellows, Professor Estabrooke, Professor Fernald.

The University Council
Faculty Members: President Fellows, Professor Boardman, Professor Hart, Professor Stevens.
Seniors: Mr. Lekberg, Mr. Malloy, Mr. Rounds.
Juniors: Mr. Chase, Mr. Jacobs.
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 MAIN

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.

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

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

Under an Act of the Legislature, approved March 20, 1897, the University receives $20,000 annually from the State for current expenses.

Under an Act of the Legislature, approved March 8, 1905, the University receives an additional appropriation of $12,000 for each of the two years, 1905 and 1906.

Under an Act 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.

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 Bangor, Orono, and Oldtown Electric 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...
The University of Maine
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 sub­
stantial four-story brick building used as a dormitory for men, named
in honor of Lyndon Oak of Garland, for many years a useful member
of the board of trustees. It contains forty-nine study rooms for stu­
dents, and is supplied with bath rooms. It is heated by steam, supplied
with water, and lighted by electricity. An annex added during the
summer of 1903 furnishes accommodations for thirty students more.

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, and dark
rooms. In the basement is 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 base­
ment and on the first floor are located the college store, 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
civics, 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 professor of mathematics; the second floor contains the university chapel with a large pipe organ in the choir gallery. In the basement under the drill hall are the 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 is designed for the departments of mechanical and electrical engineering. It consists of a main part 82 x 56 feet in dimensions 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
The University of Maine

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 four large chemical laboratories used in the analysis of foods, feeding stuffs, and fertilizers; the laboratory for vegetable pathology; and the office of the veterinarian. The general office and mailing room, the director's office, the laboratory for seed testing and photography, the entomological laboratory, and the pomological laboratory 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, and a kitchen used in the experiments upon the food of man, 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 striking 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, in the price of which a generous concession was made by the Hallowell Granite Works. The stacks were erected by A. D.
The University of Maine

Houghton, class of 1887, and L. G. Paine, class of 1885, at a cost some thousands of dollars below the market price.

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 this floor also are a lecture hall, with a seating capacity of over one hundred, 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 so that it may be reached by telephone from any of the other University buildings.

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 industry, and a laboratory. It is supplied with all necessary appliances for teaching the most approved methods of handling milk, cream, butter,
The University of Maine

and cheese. The building is heated with steam and supplied with hot and cold water. Power is furnished by a six horse power engine.

The 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. 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.

The Mt. Vernon House.—This is a wooden building, completed in 1898, which provides dormitory accommodations for women. It is situated 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 old colonial style, and consists of a long central portion and two wings. It contains a parlor, dining room, kitchen, bath room, and sixteen study rooms, each intended for two students. The rooms are large, well lighted, heated by a combined system of hot air and hot water, and provided with electric lights. A special feature is the long hall on each floor, extending sixty-six feet upon the front of the building, and wide enough to serve as an assembly or study room. The building, and the students who live in it, are under the supervision of a competent matron.

The Fraternity Houses.—Eight of the student fraternities occupy club houses. 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 under the supervision of matrons.
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 foot-ball, base-ball, and field athletics.

The Library

The library contains twenty-nine thousand bound volumes and eight thousand pamphlets. Some fifteen hundred volumes of special value to the Experiment Station are kept in the Station building, and nearly three thousand law books, in the 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-
The University of Maine

sons may obtain the privileges of the library upon application to the librarian. The librarian and his assistants are glad to give advice and assistance at any time.

During the fall term 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, special students, and others in their first year at the University, with the purpose of giving them some idea of the opportunities the library offers them and suggestions that will aid them in its use.

The librarian also offers an elective course in the spring term, 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 duplicate 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 2.00 to 5.00 p. m. During the vacations it is open from 9.00 A. M. to 12.00 M. and from 2 P. M. to 5 P. M. each week day, except Saturday, when it is open in the forenoon only.

MUSEUM OF NATURAL HISTORY

The museum is located in the wing of Coburn Hall and in an adjoining room in the main part of the building and consists of geological, zoological, and botanical collections.

The geological collections embrace the L. H. Merrill collection of illustrative rocks, a general collection of the more important fragmental, crystalline, and volcanic rocks, a collection of the more important building stones, a general collection of the more common minerals, a collection of economic minerals furnished by the National Museum, an
The University of Maine

educational series of rocks furnished by the U. S. Geological Survey, and a small collection of plant and animal fossils.

The zoological collections comprise a number of the larger mammals of the State, a small set of exotic mammals, a more complete working collection of native birds, illustrative collections of the other groups of vertebrates, a rather large set of the shells of native and exotic mollusces, and illustrative collections of the other groups, dry, alcoholic, and prepared as microscopic objects.

The most important collection in the herbarium was presented to the University by Mr. Jonathan G. Clark, of Bangor. This is the collection made by the late Rev. Joseph Blake, and includes more than 7,000 species of both flowering and flowerless plants. It 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 Semour's North American lichens, and a collection of economic seeds prepared by the U. S. Department of Agriculture.

**ORGANIZATIONS**

The following is a list of organizations existing in the University: The Philological Club, the Deutscher Verein, the University Guild, the Debating Society, the Electrical and Mechanical Society, the Civil Engineering Society, the Agricultural Society, the Chemical Society, the Literati, the Debating Club, the Phi Kappa Phi (honorary), the Young Men's Christian Association, the Athletic Association, the Glee Club, the Instrumental Club, the Band.

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

**The University Guild.**—The University Guild has for its object the building up of an art collection, and the promotion of a general interest
among the faculty, students, and friends of the University, in the study of the fine arts. The Guild occupies rooms in the library and holds meetings occasionally during the year. As rapidly as funds permit, casts and photographs of celebrated works of art are being added to the collection already begun.

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

**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.

**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 term of the senior year the five members of the class having the highest standing are elected members, and at the end of the year the five next highest 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 Art Museum, 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.

**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
The University of Maine

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, Student Expenses.

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.

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 under the charge of an officer of the regular army, detailed by the President of the United States for this purpose. Cadet rifles, ammunition, and accoutrements are furnished by the War Department. The course has special reference to the duties of officers of the line. The students are organized into an infantry battalion of three companies, 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 cadets, a dark blue blouse, cut military academy style, braided with black braid and without other ornament than the word MAINE embroidered in gold on each side of the collar; light blue trousers with dark stripe and blue cap, old army pattern; for commissioned officers, the old regulation dress uniform prescribed for infantry officers of the United States Army; for non-commissioned officers, the same uniform as for privates, with the addition of gilt chevrons on arms of blouse. The total cost of uniforms is $14.35. 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 in this department is elective. Students in the College of Law, the School Course
The University of Maine

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, subject to the approval of the president.

**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 foot-ball, base-ball, 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 and 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 base-ball cage, lockers, bath-rooms, 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 taking physical training must first submit to a physical examination. Measurements are taken and recorded on anthropometric charts and the results are plotted and given in the "Gymnasium Hand Book," for future reference.

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 various athletic teams. As the work in this department is elective an effort is made to make the exercises as attractive as possible, as much of their neural value depends upon this.

All students exercising at class hours are expected to wear the regulation suit, which consists of white shirt, white running pants, black stockings, and white rubber-sole shoes.

From December 1 to April 1 gymnasium exercises adapted to the whole student body is carried on. The end sought is organic vigor and the class work given will aim to strengthen the heart, lungs, and other vital organs.

All of the physical training is in charge of the university physician, from whom students may receive medical attention. For the first con-
sultation no charge is made; for subsequent consultations the regular physician’s fee is to be paid.

**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. The Day of Prayer for Colleges is observed with appropriate exercises.

**GENERAL REGULATIONS**

The regulations in regard to the selection of studies, standings 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.

Excuses for absence from individual exercises are not required. Each student is expected to be present at all recitations and other exercises except when imperative reasons require absence. Of these reasons he is the judge; but a student who is absent from ten per cent. or more of the exercises in any study is not admitted to the final examination except by vote of the faculty committee governing these cases. A student who fails to pass at an examination, is absent from an examination, or is excluded from an examination, may make up his deficiency at the special examinations held at the times noted in the calendar. The arrearage examinations during the Christmas recess include only studies of the spring term; the examinations during the spring recess include only studies of the fall term; the examinations at the beginning of the fall term include all the studies of the year. A student who fails to make up an arrearage in a required subject before the study is again taken 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 term. 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 term. 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 the highest rank in the senior class are authorized to prepare commencement parts; these parts must be submitted to a com-
mittee 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 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.

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 term of the senior year.

In case of failure to pass in any spring term study, a student shall be given only one special examination before Commencement, and this shall not be later than the Friday preceding Commencement.

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 10½ 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.
The University of Maine

Advanced Degrees

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

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

(1) One year’s work in residence, of a minimum amount equal to not less than six credits (see page 48), including examinations on a prescribed course of study in a major subject and not more than two minor subjects, and the presentation of a satisfactory thesis. In special cases all the work may be done in one department. The course for each candidate must be approved by the committee on advanced degrees not later than the first week in October. A registration fee of $5.00 is charged, and an additional fee of $15.00 for examinations and diploma is payable upon the completion of the work. Theses must be submitted not later than May 20. The same regulations regarding size and style of binding, outlined under the bachelor’s degree, apply here.

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

The professional degrees of Civil Engineer (C. E.), Mechanical Engineer (M. E.), and Electrical Engineer (E. E.), may be conferred upon graduates of the Civil Engineering, Mechanical Engineering, and Electrical Engineering Courses respectively, 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, traveling, 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, may be made from the following table. For the expenses of students in the College of Law reference is made to 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 University of Maine

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.

**Annual Student Expenses**

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition, 2 terms at $15.00 or $20.00</td>
<td>$30.00 or $40.00</td>
</tr>
<tr>
<td>Registration fee, 2 terms at $5.00</td>
<td>$10.00</td>
</tr>
<tr>
<td>Incidental, 2 terms at $10.00</td>
<td>$20.00</td>
</tr>
<tr>
<td>Laboratory fees, (average) about</td>
<td>$10.00</td>
</tr>
<tr>
<td>Text-books, about</td>
<td>$15.00</td>
</tr>
<tr>
<td>Board, 36 weeks at $3.00 or $3.50</td>
<td>$108.00 or $126.00</td>
</tr>
<tr>
<td>Heat and light for half room, and general care of dormitory</td>
<td>$27.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$220.00 or 248.00</strong></td>
</tr>
</tbody>
</table>

The tuition charge is $15.00 a term, or $30.00 a year, and all students are subject to this charge except those in the 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 37.

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 term before the student enters any classes.

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

A student obliged to leave the University within two weeks after the beginning of the term may have the foregoing amounts refunded with the exception of the registration fee. A student leaving within the first half of the term receives a rebate of one-half the incidental expenses. 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:
The University of Maine

chemistry, per term, about $3.00; bacteriology, per course, $3.00; physics, per course, $2.50 to $4.00; pharmacy, per term, about $3.50; mineralogy, $2.00; biology, per course, $1.00 to $3.00; electrical engineering, per course, $2.50; mechanical engineering, per course, $2.00; shop, per course, $4.00 to $5.00. Laboratory charges in the civil engineering course are very few, but traveling expenses incurred in visiting engineering works will be nearly equivalent to the laboratory expenses of other courses.

The largest item of expense is 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 $2.50 to $3.50 a week.

The charge for rooms in Oak Hall is seventy-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 and public rooms of the 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 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. The price of board is $3.00 a week. For heat and light, and for the care of the public rooms, the charge is seventy-five cents a week.

Students in the dormitories 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.

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

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

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 term. Applications should be made not later than October 10. They must be made to the President upon blanks to be obtained from the Secretary of the faculty. Awards made in June may be withdrawn from students who do not register, or claim their loans, by October 10.

The Kittredge Loan Fund

This fund, amounting to nearly one thousand dollars, was established by Nehemiah Kittredge, of Bangor. It is in the control of the President and Treasurer of the University, by whom it is loaned to needy students in the 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 University of Maine

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.

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 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 1905 it was awarded to the student who excelled in debate.
The University of Maine

The Pittsburg Alumni Association Scholarship yields tuition for one student for one year, will be awarded upon conditions to be determined by the President of the University.

The Maine Dairy Association offers three prizes to students in the school course in agriculture, for the best essays on subjects pertaining to dairying. The prizes are $15.00, $10.00, and $5.00.

Mr. L. C. Bateman of the Lewiston Journal offers a prize of $10.00 for the best essay on stable sanitation, by any student in any agricultural course.

Mr. H. E. Cook of Denmark, N. Y., and Mr. George Aiken of Woodstock, Vermont, each offer $5.00 for a prize in agriculture, the method of award to be determined later.

Honorable Z. A. Gilbert of North Greene, Maine, agricultural editor of the Maine Farmer, offers two prizes of $15.00 and $10.00 each, to students presenting the best essays on dairy subjects.

Honorable A. W. Gilman, Commissioner of Agriculture in Maine, offers two prizes of $15.00 and $10.00 each, for the best essays on "Agricultural Education."

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 term 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% 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. College graduates who wish to enter a technical course are admitted to the junior class without examination. Students who enter from another college must present a certificate of honorable dismissal from the authorities of the institution they are leaving.
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 constant practice in pronouncing Latin 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 the other 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.

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 two days before the opening of the fall term, 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.
The University of Maine

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.

ENTRANCE REQUIREMENTS

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

To gain admission into any of the courses leading to the degrees of B. A. or B. S., 26 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 a week):

For the B. A. Courses

Required Subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Entrance English</td>
<td>4</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</td>
</tr>
</tbody>
</table>

Optional Subjects (7 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 4 points of any modern language will be accepted.)
The University of Maine

Each year of Greek counts 2 points
  "  "  French
  "  "  German
Chemistry (including note-book)  "  "  2
Physics (including note-book)  "  "  2
Solid Geometry  "  "  1 point
Greek History  "  "  1
English  "
American History and Civil Government  "  "  1

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

Required Subjects

College Entrance English counts 4 points
Algebra  "  "  4
Plane Geometry  "  "  2
Solid Geometry (College of Technology only)  "  1 point

Optional Subjects (15 or 16 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 4 points of any modern language will be accepted. 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
  "  "  Latin
  "  "  Greek
Advanced Mathematics (higher Algebra and Plane and Spherical Trigonometry)  "  "  2
* Mechanical Drawing (for technical courses)  "  "  1 point
* Manual Training (for technical courses)  "  "  1

* Graduates from high schools giving a full manual training course may receive credit for two points in mechanical drawing, four in manual training, and one in free hand drawing.
The University of Maine

Chemistry (including note-book) counts 2 points
Physics (including note-book) " 2 "
Physiography counts 1 point or 2 points
Biology (including note-book) " 2 "
Botany (including note-book) " 2 "
Zoology (including note-book) " 2 "
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.

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, he 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 Coverley 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 Caesar; Milton’s L’Allegro, II Penseroso, Comus, and Lycidas; Burke’s Speech on Conciliation with America; Macaulay’s Essay on Life of Johnson.

French.—First Year. Pronunciation; rudiments of grammar, including inflection of the regular and irregular verbs, plural of nouns, inflection 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 Fees, or Daudet’s Easier Short Stories; (2) Erckmann-Chatrian’s Mme. Therèse or Conspect de 1813, or About’s Roi des Montagnes, or Merimeé’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 Träumereien, 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 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 Novelettes; (2) a part of Freytag’s Bilder aus der Deutschen Vergangenheit; (3) a part of Fouque’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% will be allowed to pursue advanced work in college. But this examination in the Third Year Course will not be received in lieu of any required examination for admission, or of work required for a certificate.

Latin.—The grammar, including prosody; Caesar’s Gallic War, books I-IV; Cicero’s four orations against Catiline, and those for Archias and for the Manilian Law; Vergil’s Eclogues and the Aeneid, books I-VI; the sight translation of Latin passages of moderate difficulty; the translation into Latin of simple English sentences, and of easy narrative passages based on the prose authors read. For the last a vocabulary of 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.

**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. A satisfactory preparation may be obtained from Wells's Academic, or Wentworth's School Algebra or any equivalent text. Candidates for the short course in pharmacy will be examined on no topics beyond simple equations of the first degree.

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

**Solid Geometry.**—Books VI-IX of Wells's, or books VI-VII of Wentworth's Geometry, or an equivalent. The examination will be planned to test the candidate's ability to apply the theorems to the computation of surfaces and volumes, as well as his readiness in demonstration.

**Sciences**

*Chemistry.*—The necessary ground is covered by the following text-

* The work in 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.
books: Fisher, Remsen, Roscoe (inorganic part), Shepard, Storer, and Lindsay, Williams.

**Physical 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 one year in botany alone; a course for one year in zoology 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 zoology, 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.

* The work in 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.
REQUIREMENTS FOR GRADUATION

The college year is divided equally into a fall term and a spring term. Five recitation hours a week of successful work for one term entitle a student to one credit. The minimum regular work for a term is fourteen hours a week (exclusive of physical training and military science), leading to two and eight-tenths 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—that is, two hours in the laboratory are counted as equivalent to one hour. The hours devoted to such studies are marked with a dagger (†) in the 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

AGRONOMY

Professor Hurd; Professor Gilbert

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 term.

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 better to 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 term.

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.

(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. \(\text{\*Four hours a week. Fall term.}\)

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. \(\text{Two hours a week. Spring term.}\)

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. \(\text{Three hours a week. Fall term.}\)

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. \(\text{Three hours a week. Fall term.}\)

Ag 7. Advanced Agronomy.—A continuation of course 6. \(\text{Two hours a week. Spring term.}\)

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 University of Maine

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 term.

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 term.

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 term.

ANIMAL INDUSTRY

Professor Gowell; Mr. Campbell

An 1. ANIMAL BREEDING.—A study of the types and breeds of the different classes of horses, cattle, sheep, swine, and poultry; their history, development, economic values, and adaptation to different purposes and conditions. The work is given by lectures and text-books. Two hours a week. Spring term.

An 2. LABORATORY ANIMAL BREEDING.—Studying and handling animals of the different breeds and classes; practice in the use of the score cards in judging. †Two hours a week. Spring term.

An 3. ANIMAL BREEDING.—A continuation of course 1. Lectures and recitations on the principles of breeding. Two hours a week. Fall term.

An 3a. LABORATORY ANIMAL BREEDING.—A continuation of course 2. †Two hours a week. Fall term.

An 4. ANIMAL FEEDING.—Food requirements of different kinds of animals; composition of foods and the nutrients furnished by them;
The University of Maine

feeding formulas; calculating rations; valuation of foods; pasturing; soiling; methods of feeding. *Two hours a week*. Fall term.

An 5. **Dairying.**—Lectures and recitations upon the composition and formation of milk; its production and aeration; pasteurization, sterilization, creaming, fermenting; the manufacture of butter and cheese. *Two hours a week*. Spring term.

An 6. **Laboratory Dairying.**—Practice in handling and testing milk and cream for acidity and solids; curing cream; making butter and cheese; operating dairy machinery. *Seven hours a week for six weeks*. Spring term.

An 7. **Advanced Animal Industry.**—Elective for those who have taken An 1 to An 7 inclusive. *The time varies*. Fall term.


**ART**

Professor Huddilston offers certain courses in art which are described in connection with the department of Greek. See page 77.

**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 term.

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 term.

**BIOLOGY**

**Professor Drew; Professor Russell; Mr. Cummings; Miss Baleentine; Mr. Edwards**

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.
The University of Maine

Bl 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 term.

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

Bl 3. **Mammology.**—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 life they lead. Open to all students. *Two hours a week.* Fall term.

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

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, and is not complete without courses 7 and 8. Courses 1 and 2 are required as a preparation. *Two hours a week.* Fall term.

Bl 6. **Laboratory Zoology.**—To be taken in connection with course 5. † *Six hours a week.* Fall term.

Bl 7. **Zoology (Vertebrate Animals).**—A continuation of course 5. Types of the vertebrates 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, 2, 5, and 6. *Two hours a week.* Spring term.

Bl 8. **Laboratory Zoology.**—To be taken in connection with course 7. † *Six hours a week.* Spring term.

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.* Spring term.
The University of Maine

Bl 11. 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. ♦ Four hours a week. Spring term.

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

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 term.

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 terms. Fall and spring terms.

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 term of odd years.

Bl 16. Veterinary Science.—Lectures, demonstrations, and clinics, illustrated by models, natural preparations, and living animals. Three hours a week. Spring term 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. ♦ Ten hours a week for nine weeks. Last part of spring term.

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. ♦ Ten hours a week for nine weeks. First part of spring term.

Bl 19. Laboratory Bacteriology.—An advanced course. ♦ Ten hours a week for nine weeks. Last part of spring term.
The University of Maine

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. One hour a week. Spring term of odd years.

Bl 21. General Botany (Flowering Plants).—The course includes a brief consideration of the fundamental principles of the structure, physiological functions, habits, and systematic relations of flowering plants. This course must be taken in connection with course 22, and should follow courses 1 and 2. One hour a week. Spring term.

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

Bl 23. General Botany (Flowerless Plants).—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. †Four hours a week. Fall term.

Bl 25. Plant Histology.—The minute structure of plants, including the anatomy of the cell, is studied, and attention is given to growth, variation, and adaptation of cellular structures, and the formation and distribution of tissue systems. Killing, staining, and mounting plant tissues forms part of the work. This course is to be taken in connection with course 26 and must be preceded by courses 21 and 22. One hour a week. Fall term.

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

Bl 27. Plant Physiology.—Attention is given to the physiological activities of plants: the processes of nutrition and reproduction; the phenomena of respiration, transpiration, and growth; response to various stimuli, such as light, heat, moisture, and gravity. This course must be preceded by courses 21 and 22 and should be preceded by courses 23, 25 and 26. It is advisable to take this course in connection with course 28. One hour a week. Spring term.

Bl 28. Laboratory Plant Physiology.—To be taken in connection with course 27. †Two hours a week. Spring term.
The University of Maine

Bl 29. **Agricultural Botany.**—This course deals with the plants of the farm and consists of three parts. 1. Seeds.—Structure, function and dispersal; 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, reproduction, and pollination; identification of species. This course must be taken in connection with course 30. *Two hours a week.* Fall term.

Bl 30. **Laboratory Agricultural Botany.**—To be taken in connection with course 29. *Two hours a week.* Fall term.

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 term of odd years.

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

Bl 33. **Elementary Botany.**—Studies in the structure and functions of the organs of plants in their order of development. Agents of pollination, the process of fertilization of flowers, 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 term.

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 term.

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 term.
The University of Maine

Bl 36. **Laboratory Pharmaceutical Histology**.—To be taken in connection with course 35. †*Four hours a week.* Fall term.

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 terms.

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 term.

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 the morphological elements of trees, and the making of a bud key. †*Four hours a week.* Fall term.

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

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

**CHEMISTRY**

**Professor Aubert; Dr. Bedford; Mr. Seabury**

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 term.

Ch 2. **General Chemistry**.—A continuation of course 1. *Three hours a week.* Spring term.
The University of Maine

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 term.

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 term.

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 term. 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 7. **Elementary Organic Chemistry.**—The marsh gas series. Lectures and recitations, illustrated by specimens. The text-book is Remsen's Organic Chemistry. *Three hours a week.* Fall term. 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 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 term.

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

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 eight hours per week, unless by special arrangement.* Fall term. 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 term.

Ch 16. **QUANTITATIVE ANALYSIS.**—Gravimetric determinations. The text is Appleton's Quantitative Chemical Analysis. *Not less than 8 hours per week, unless 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 Olsen's Qualitative Chemical Analysis. *Not less than 8 hours per week, unless by special arrangement.* Fall term. Open to students who have taken course 16 and its requirements.

Ch 19. **VOLUMETRIC ANALYSIS AND ASSAYING.**—Acidimetry, alkaliometry, oxydimetry; gold and silver assaying. *Text, 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. *15 hours a week for eleven weeks.* Spring term. 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.

The University of Maine

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 term. 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 term.

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 term.

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

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

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

Ch 29. **Agricultural Chemistry.**—A course on the chemistry of soils and fertilizers. It includes the relation of soils to heat and moisture; the mechanical condition of soils best suited to plant growth, and the objects to be gained by cultivation; the origin, composition, preparation, and use of commercial fertilizers; the supply, composition, care, and use of farm manures, and the general considerations which pertain to the maintenance of soil fertility. *Five hours a week.* Given in the spring term of even years. Open to students who have completed courses 1, 2, 3, and 4.

Ch 30. **Biological Chemistry.**—Lectures and recitations on the composition of the air, soils, natural waters, and plants; 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 of milk and dairy products; and the chemical processes and methods of investigation by which these subjects are studied. *Five hours a week.* Fall term.
The University of Maine

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. Two hours a week. Spring term.

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

CIVICS
Professor Rogers
Professor Rogers’s courses will not be given this year

CIVIL ENGINEERING
Professor Boardman; Mr. Brown; Mr. Grover; Mr. Emery

Ce 1. Plane Surveying.—Recitations on the general principles of plane surveying; instruments, their adjustments and uses; land survey computations, direct leveling, and the variation of the magnetic needle. The text-book is Raymond's Surveying and Pence and Ketchum's Field Manual. Two hours a week. Spring term.

Ce 2. Field Work in Surveying.—The use of the chain, compass, transit, and level; the adjustment of instruments; original surveys. Plats are prepared of surveys made in the field. The text-book is Field Manual by Pence and Ketchum. †Six hours a week. Spring term.


Ce 4. Railroad Work.—The survey of a railroad about three miles long. The preliminary and location surveys are made, including the running in of the curves, establishing the grade, setting the slope stakes, and the calculation of the earthwork. †Six hours a week. Fall term.

Ce 5. Highway Engineering.—The location, construction, and improvement of country roads under different conditions of soil, climate, and traffic. One hour a week. Fall term.
The University of Maine

Ce 7. DRAWING.—Isometric and cabinet projections, perspective, tracing, and lettering; stereotomy, giving the application of the methods of descriptive geometry to the preparation of drawings for arches, retaining walls, bridge abutments, piers, etc. *Six hours a week for nine weeks.* Fall term. *Six hours a week for nine weeks.* Spring term.

Ce 8. SANITARY ENGINEERING.—Sewerage systems; drainage and sewerage of towns; drainage of sewerage systems; sewage disposal; water supply and purification; sewerage treatment. The text-book is Folwell's Sewerage. *Two hours a week.* Fall term.

Ce 9. SURVEYING.—The plane table, topographical surveying, precise leveling, the elements of geodesy, the measurement of a base line, triangulation. This course is given during the first two weeks following Commencement, and counts as 100 hours. *Required of juniors.*

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 is Merriman's Hydraulics. *Three hours a week.* Spring term.

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, the data thus obtained being used together with that obtained from the Survey to plot the rating curve, etc. The measurements are reported to the Survey. The charge for this course is $5.00. *Four hours a week.* Fall term.

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

Ce 14. Designing.—Designs for some of the common types of steel structures, and preparation of drawings for the shop. *Ten hours a week.* Fall term.

Ce 15. Designing.—A continuation of course 14. *Fifteen hours a week for ten weeks.* Spring term.


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

Ce 19. Railroad Engineering.—A course discussing the economics of railroad location, also the subjects of brakes, signals, rolling-stock, yards, stations, etc. *Two hours a week.* Spring term.

Ce 20. Masonry Construction.—Building stone; cements and their tests; mortar; concrete; piles; foundations; pneumatic caissons; open caissons; bridge piers and abutments. Lectures and recitations. The text-book is Baker's Masonry Construction. *Two hours a week.* Fall term.

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. *Two hours a week.* Spring term.


The University of Maine

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 term.

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 term.

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 term.

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 term.

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 term.

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 term.
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. Fall term.

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 term.

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 term.

ED 2. HISTORY OF EDUCATION.—Course 1 continued,—the development of education traced down to the present time. Three hours a week. Spring term.

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 term.

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 term.

ED 5. GENERAL METHODOLOGY.—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 term.

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 term. 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 term. Open to those only who have taken Course 4.

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 term. Open to those only who have taken Course 5.

**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 term. Required of juniors in electrical engineering.

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 term. 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 b. *Two hours a week.* Spring term. 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 term. 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 term. 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 term. 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 term. 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 term. Required of seniors in electrical engineering. The charge for this course is $3.00.

67
Ee 6b. Laboratory Work.—A course showing the practical application of the work done in courses Ee 3a and b, 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 term. Required of seniors in electrical engineering. The charge for this course is $2.50.

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 term. 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. *Four hours a week, alternate weeks or as arranged for.* Spring term. 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 term 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 term. Required of juniors in mechanical engineering.

Ee 10b. Alternating Current Development and Application.—An elective course for juniors or 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 poly-
Ee 6b. Laboratory Work.—A course showing the practical application of the work done in courses Ee 3a and b, 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 term. Required of seniors in electrical engineering. The charge for this course is $2.50.

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 term. 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. *Four hours a week, alternate weeks or as arranged for.* Spring term. 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 term 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 term. Required of juniors in mechanical engineering.

Ee 10b. Alternating Current Development and Application.—An elective course for juniors or 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 poly-
The University of Maine

phase apparatus is treated from a mechanical engineer's point of view. *Two hours a week.* Spring term.

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 b, by those wishing to become familiar with alternating current machinery. *Four hours a week.* Fall term. 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 term.

ENGLISH

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

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 with the instructors, make certain substitutions (see under courses 6, 9, 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 2a. 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 compo-

*Absent on leave.
The University of Maine

sition. 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 first term the sections will meet once a week; during the second, once in two weeks. The assignment of sections is made by the instructor in the second week of the term.

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 term.

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 term.

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 term 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 term.
The University of Maine

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 term.

Courses 6 and 7 are open to those that 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 term.

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


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 term.


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 term.

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 term.
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 term.

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 term.

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 term.

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 term.

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 term.


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 term. Open to all undergraduates.

The University of Maine

FORESTRY

Professor Tower

[Note.—Courses in forest botany are listed under biology.]

Fy 1. General Forestry.—The importance and scope of the subject; direct and indirect value of the forest; relation of the forest to the State; relation of forestry to the other sciences, and of the individual branches of forestry to each other; forestry in the United States. Optional for students who take forestry as a major. Two hours a week. Spring term.

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

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

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 term.

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. †Eight hours a week, the first half of the fall term.

Fy 9. Silviculture, Field Work.—A continuation of course 8. †Eight hours a week, the last half of the spring term.

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 term. Open to those who have taken Ms 1, 2, and 4.

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

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. One hour a week. Fall term. 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.

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

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

GERMAN

Professor Carr; Professor Lentz

Gm 1. Elementary German.—Bierwirth’s Beginning German; Lean­der’s Träumereien; Zschokke’s Der Zerbrochene Krug; Storm’s Immensee; Jacobsen’s Wigo; Kraner’s Der Tschokoi; Benedix’s Der Prozess; elementary composition. Five hours a week. Fall term.

Gm 2. Elementary German.—A continuation of course 1. Five hours a week. Spring term.

Gm 3a. German Prose and Poetry.—Texts selected from the writ­ings of nineteenth century authors. Easy assigned reading; composition; memorizing of German songs. Three hours a week. Fall term.

Gm 3b. German Prose and Poetry.—A continuation of course 3a. Two hours a week. Spring term.

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. Fall term.

74
The University of Maine

Gm 4b. German Literature of the Classic Period of the Eighteenth Century.—A continuation of course 5a. Three hours a week. Spring term.

Gm 5a. General View of German Literature.—Klee’s Grundzüge der deutschen Literaturgeschichte; the Nibelungenlied and Walther von der Vogelweide (both in modern German); assigned reading and weekly reports. Open to students who have completed courses 3a and 3b, or 4a and 4b. Three hours a week. Fall term.

Gm 5b. General View of German Literature.—A continuation of course 5a. Three hours a week. Spring term.

Gm 6a. Intermediate Composition and Conversation.—Bronson’s Colloquial German. Open to students who have completed courses 1 and 2, or their equivalent. Two hours a week. Fall term.

Gm 6b. Intermediate Composition and Conversation.—Schrakamp’s Conversational German. Two hours a week. Spring term.

Gm 7a. Advanced Composition and Conversation.—Fossler’s Practical German Conversation. Two hours a week. Fall term.

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

Gm 8a. Middle High German.—Paul’s Mittelhochdeutsche Grammatik; translation of mediaeval into modern German. Open to students who have completed courses 5a and 5b. Two hours a week. Fall term.

Gm 8b. Old High German.—Braune’s Althochdeutsche Grammatik and Althochdeutsches Lesebuch; translation into modern German. Two hours a week. Spring term.

GREEK

Professor Huddleston

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

Gk 2. Homer.—Odyssey, Books VI-XII. The reading of the remaining books, in English translation, is required. Assigned readings on the history of Greek poetry, “the Homeric question,” and Homeric antiquities. Four hours a week. Spring term.
Gk 3. **Attic Orators.**—Some of the shorter orations of Demosthenes; selections from the minor Attic orators; parallel reading on the history of Greek prose literature, and the public economy and social life of Athens. *Two hours a week.* Fall term.

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 term.

Gk 5. **Thucydidess.**—Book I. Assigned reading in Herodotus, and a comparative study of the three great historians of Greece. *Three hours a week.* Fall term. 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 term. Open to students who have taken courses 2 and 4.

Gk 7. **Plato.**—Selected dialogues. Lectures on the history of Greek philosophy with special reference to Plato and Aristotle. *Two hours a week.* Fall term. 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 term.

Gk 9. **Greek Sculpture.**—Lectures, illustrated by photographs and lantern slides. This course does not presuppose a knowledge of Greek, 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 term 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 term of even years.

Gk 11. **New Testament Greek.**—This course is intended for those who have no acquaintance with ancient languages, and, with course 12, is expected to give considerable facility in reading the narrative portions of the Greek Testament. It is open to all students. *Three hours a week.* Given in the fall term of even years.
The University of Maine


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

Gk 15. Greek Prose Composition.—A course in writing Greek, intended to continue the work begun in Gk 1. One hour a week. Spring term.

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

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

For the accommodation of those students who have not presented Greek for entrance to college the two following courses in elementary Greek are offered.

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 term.

Gk 21. Xenophon and Homer.—Anabasis, Books III-IV; sight reading in Attic prose; selections from Homer's Iliad. Five hours a week. Spring term.

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

At 2. \textbf{Italian Art.}—A continuation of course 1, dealing chiefly with the masters of the high Renaissance in Florence and Rome. \textit{One hour a week}. Given in the spring term of odd years.

At 3. \textbf{Italian Art.}—Painting in the north of Italy, and the culmination of the Italian Renaissance in the Venetian masters. Lectures and collateral reading. \textit{One hour a week}. Given in the fall term of odd years.

At 4. \textbf{Italian Art.}—A continuation of course 3. \textit{One hour a week}. Given in the spring term of even years.

\section*{HISTORY}
\textbf{Professor Fellows; Professor Colvin}

\textbf{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. \textit{Three hours a week}. Fall term. Open to all students.

\textbf{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. \textit{Three hours a week}. Spring term. Open to all students.

\textbf{Hy 3. History of England.}—From early times to the beginning of the Stuart period. Especial attention is given to social and industrial conditions. \textit{Two hours a week}. Fall term. 1906-7. Open to all students.

\textbf{Hy 4. History of England.}—Continuation of course 3. From the beginning of the Stuart period to the present. \textit{Two hours a week}. Spring term. Open to all students.
The University of Maine

Hy 5. History of Modern Continental Europe.—A general course from 1789 to 1815. *Two hours a week.* Fall term. 1907-8. Open to all students.

Hy 6. History of Modern Continental Europe.—A continuation of course 5, from 1815 to the present time. *Two hours a week.* Spring term. Open to all students.

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 term. 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.*
HORTICULTURE
Mr. Dorsey.


Ht 3. Laboratory Horticulture.—Practical work in orchard and gardens supplementing course 6. Two hours a week. Fall term.

Ht 4. General and Ornamental Gardening.—The culture of garden vegetables in the field and under glass; market and home gardening; propagation of plants; the principles of landscape art and their application to rural conditions; plans for improving home grounds. Three hours a week. Spring term.

Ht 5. Handicraft.—Practical work in greenhouse, gardens, and orchards. Four hours a week. Spring term.

Ht 6. Systematic Pomology.—Lectures and critical studies of the leading natural groups of fruit. Open to students who have taken Bl 21 and Ht 2. Two hours a week. Fall term.

Ht 7. Spraying.—A study of the materials used in spraying, spray machinery and the methods employed in combating plant diseases. Open to juniors and seniors. One hour a week. Spring term.

Ht 8. The Evolution of Cultivated Plants.—The origin, distribution, and variation of cultivated plants, and a discussion of the current hypotheses of organic evolution as applied to their modification; studies in heredity and improvement of types. Open to juniors and seniors. Two hours a week. Fall term.

Ht 9. Horticultural Experimentation.—Original work for those desiring to become teachers or investigators. Open to seniors or graduate students. Time to be arranged.

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. Elective. Open to juniors and seniors. Two hours a week. Fall term.
LATIN

PROFESSOR CHASE

Lt 1. LIVY AND COMPOSITION.—Selections from Livy, History of Rome; composition, with review of Latin syntax. *Four times a week.*

Lt 2. CICERO AND HORACE.—Cicero, De Senectute; Horace, Odes and Epodes; Latin composition. *Four times a week.* Spring term.

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, Trinummius, or Menaechmi of Plautus; lectures on the development of Roman comedy. *Three times a week.* Fall term.


Lt 5. LATIN COMPOSITION.—Practice in writing Latin; study of Latin syntax. *One hour a week.* Fall term.

Lt 6. LATIN COMPOSITION.—Practice in writing Latin; study of Latin rhetoric. *One hour a week.* Spring term.

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 term of even years.

Lt 8. THE ROMAN ELEGIAIC POETS.—Selections from Catullus, Tibullus, Propertius, and Ovid; lectures on the elegiac poets. *Two hours a week.* Given in the spring term of odd years.

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

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

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

Lt 12. **Roman Philosophy.**—A continuation of course 11. Two hours a week. Given in the spring term of odd years.

Lt 13. **Roman Literature.**—General introduction to the subject; illustrative class-room readings; a choice of one of six courses of collateral reading of Roman authors. Three hours a week. Given in the fall term of even years. Open to students who have taken courses 1-4.

Lt 14. **Roman Literature.**—A continuation of course 13. Three hours a week. Given in the spring term of odd years.

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

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

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

Lt 17b. **Roman Topography.**—A continuation of course 17a. One hour a week. Given in the spring term 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. One hour a week. Given in the fall term of odd years. Open to students who have taken courses 1-4.
The University of Maine

Lt 19a. LATIN GRAMMAR.—A discussion of the fundamental principles of word form and syntax in the Latin language. Lectures and recitations. One hour a week. Given in the fall term of odd years.

Lt 19b. LATIN GRAMMAR.—A continuation of Lt 19a. One hour a week. Given in the spring term 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 term 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. One hour a week. Spring term. Open only to students whose major subject is Latin.

MATHEMATICS AND ASTRONOMY

Professor Hart; Mr. Willard; Mr. Morley; Mr. Moots

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 term. 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 term, first fourteen weeks.

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

Ms 5. ANALYTIC GEOMETRY.—A brief study of the point, right line, and conic sections. For students in other than engineering courses who
do not intend to elect mathematics beyond course 7. Open to students who have taken courses 2 and 4. The text-book is Wentworth's Analytic Geometry. *Two hours a week.* Fall term.

**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 term, last ten weeks.

**Ms 6b. Analytic Geometry.**—A continuation of course 6a. Conic sections; elements of solid analytic geometry. *Five hours a week.* Fall term, 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, and either 5 or 6a and 6b. The text-book is Granville's Differential and Integral Calculus. *Five hours a week.* Fall term, 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.* Fall term.

**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 students' 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. *Three hours of recitations or lectures and two hours of observatory work a week.* Spring term.
The University of Maine

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 term.

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 term of odd years.

Ms 13. **Advanced Integral Calculus.**—A continuation of course 12. *Two hours a week.* Given in the spring term 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 term of odd years.

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

Ms 17. **Practical Astronomy.**—A continuation of course 16. *Three hours a week.* Given in the spring term 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 term.

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

**MECHANICAL ENGINEERING**

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

Me 1. **Woodwork.**—A number of graded exercises in woodworking, designed to give the student familiarity with the tools used in modern woodworking practice, and also to teach him to work from dimensioned drawings. These exercises lead up to pattern making. The pattern work consists of making complete patterns and core boxes from drawings. A lecture course supplements the work in the shop. Charge for materials, $4.00. *Four hours a week.* Fall term.
The University of Maine

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. Charge for material, $5.00. Cost of hammer, calipers and scale, about $2.50. The text-book used is Bacon's Forge Practice. †Four hours a week. Spring term.

Me 3. Mechanism of Machines.—Lectures supplementing the course in kinematics. Required of juniors in mechanical engineering. One hour a week. Fall term.


Me 5. Machine Work.—Exercises in filing and chipping; lathe work; exercises on planer, shaper and milling-machine; making of cut gears, machinist taps, etc. Charge for materials, $5.00 per term. †Nine hours a week. Fall term.

Me 5a. Machine Work.—A continuation of Me 5. †Six hours a week. Spring term.

Me 5b. Machine Work.—A shorter course than Me 5 and 5a, for electrical engineers. †Four hours a week. Fall and spring terms. Charge for material, $5.00 per term.

Me 6. Foundry Work.—Foundry instruction is given in moulding, mixing of metals, 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 principal steam engine valve motions are studied in order to enable the student to gain a knowledge of the method of designing simple valve mechanisms. Special attention is given to designing valves by the use of the Zeuner diagram, with the solution of practical problems in the drawing-room. The text-book is Peabody's Valve Gears for Steam Engines. Two hours a week. Spring term.

Me 8. Machine Design.—This course is a continuation of Me 4. Its object is the study of advanced machine design with reference to the selection of materials, proportioning of parts, designing of fly wheels,
etc. In connection with this course the student will be required to design some machine. *Three hours a week.* Spring term.


**Me 10. Fuels.**—Heating value, supply and distribution of various fuels; types of furnaces; methods of stoking. *Two hours a week.* Spring term.

**Me 11. Steam Engineering.**—The fundamental theories relating to the steam engine and other heat engines. *Three hours a week.* Fall term.

**Me 12. Steam Boiler Design.**—Complete design of some type of steam boiler, worked up in the drawing-room. †*Six hours a week.* Fall term.

**Me 13. Hydraulic Machinery.**—A brief lecture course on the elements of hydraulics, followed by the theory and design of the turbine and other water motors. *Two hours a week.* Fall term.

**Me 14. Marine Machinery.**—A course with text-book on types of machinery found on shipboard. The principal calculations necessary to a design are taken up in detail. *Three hours a week.* Fall term. Open to seniors.

**Me 15. Mechanical Laboratory.**—Testing materials, lubricants, steam boilers and engines, gasoline engines, etc. The charge for this course is $2.00 per term. †*Two hours a week for juniors,* spring term. †*Two hours a week for seniors.* Fall and spring terms.

**Me 16. Steam Engineering.**—A continuation of course 11, indicating the connection between theory and practice in steam engines, steam turbines, air compressors, refrigerating machines, and gas engines. *Two hours a week, first nine weeks.* Spring term.

**Me 17. Steam Engine Design.**—Detailed design of some type of steam engine, accompanying course 16. †*Six hours a week.* Spring term.
The University of Maine

Me 18. Graphic Statics.—The principles of graphic statics and their application to problems of design. *Four hours a week.* Spring term.

Me 19. Marine Engineering.—The problems of propulsion and propeller design are made to lead up to the final problem of designing a ship as a whole to fulfill given conditions. *Three hours a week.* Spring term.


Me 21. Seminary.—General discussion of leading articles appearing in current engineering literature. *One hour a week.* Fall and spring terms.

Me 22. Thesis.—The results of some original investigation or design presented in proper form. The subject must be submitted before the close of the fall term, senior year.


Me 24. Kinematical Drawing.—This course supplements Me 4. *Two hours a week.* Fall term.

Me 25. Strength of Materials by Test.—A course in the mechanical laboratory for civil engineers. A charge is $2.00 is made for this course. Elective. *Two hours a week.* Spring term.

Me 26. Mechanical Laboratory.—A course of experiments in the laboratory especially arranged to meet the needs of the student in electrical engineering. A charge of $2.00 is made for this course. Elective. *Three hours a week.* Spring term.

**MECHANICS AND DRAWING**

**Professor Weston; Mr. Grover; Mr. Emery**

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 text-book is Anthony's Mechanical Drawing. *Four hours a week.* Fall term.
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 term.

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 term.

Md 4. Descriptive Geometry.—A continuation of course 3. Two hours a week. Spring term.

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 term.


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 term.


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 term.

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 term.
The University of Maine

MILITARY SCIENCE AND TACTICS

Professor Brown

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. —. 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.

90
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 Camp Battalion, October, 1906.

Major, commanding battalion—F. S. N. Erskine.
Captain and Adjutant—S. F. Pierce.
Captain and Quartermaster—S. M. Bird.

First Lieutenant—J. S. Irish.
Second Lieutenant—E. C. Coleman.
First Sergeant—H. E. Hamlin.
Sergeants—C. L. Welsh, C. E. Stickney, J. N. Kane, C. W. Parsons.
Corporals—L. M. Ames, H. P. Carle.

First Lieutenant—H. M. Ellis.
Second Lieutenant—A. L. Todd.
First Sergeant—K. R. Fox.
Sergeants—R. Crocke, G. E. Springer.
Corporals—A. C. Porter and E. Tuell.

Co. “C,” Captain—J. Jacobs.
First Lieutenant—B. I. Collins.
Second Lieutenants—A. G. Durgin, H. M. Bowman.
First Sergeant—F. G. Wadsworth.
Corporal—H. M. Woods.

Pharmacy

Professor Jackman

Pharmaceutical Chemistry.—Chemical formulae; 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 term.
The University of Maine

Pm 2. Pharmacy.—Pharmacopoeias, 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 term.

Pm 3. Laboratory Pharmacy.—Official 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. Pharmacopoeia. † *Twelve hours a week.* Fall term.

Pm 4. Pharmacopoeia.—A complete review of the pharmacopoeia, 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. Pharmacopoeia. *Five hours a week.* Spring term.

Pm 5. Inorganic Pharmacognosy.—Nomenclature; practical exercises in the identification of specimens. The text-book is the U. S. Pharmacopoeia. *Two hours a week.* Fall term.

Pm 6. Organic Pharmacognosy.—Nomenclature; habitat, etc.; practical exercises. The text-books are the U. S. Pharmacopoeia and Maisch's Materia Medica. *Four hours a week.* Spring term.

Pm 7. Materia Medica.—Chemicals and drugs; their nature, uses, classification, therapeutical action, and doses; poisons, and antidotes. The text-book is Potter's Materia Medica. *Three hours a week.* Fall term.

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

Pm 10. Laboratory Pharmacy.—A continuation of course 3. † *Five hours a week.* Spring term.

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 term.
The University of Maine

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 term.

Pl 2. Logic.—The object of this course is to give the student a just appreciation of the functions of language as a means of expressing thought, and a familiarity with the principles of deductive and inductive reasoning. The student is given frequent drills in the application of logical principles. The text-book is Ryland's Logic. Three hours a week. Spring term.

Pl 3. History of Philosophy.—An outline of Greek and medieval philosophy. Three hours a week. Offered in the fall term 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. Two hours a week. Given in the spring term of even years. Open to juniors and seniors who have taken course 1.

Pl 6. Advanced Psychology.—Besides special topics in general psychology, this course is designed to include a discussion of such phenomena as sleep and dreams, the hypnotic state, thought transference, illusions and hallucinations. Two hours a week. Given in the spring term of odd years. Open to juniors and seniors who have taken course 1.

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 term; the same course
The University of Maine

is given each term. Open to students taking course 1, or who have taken course 1, 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 term of even years.

Pl 10. Advanced Laboratory Psychology.—Experimental and research work. †Two hours a week. Spring term. Open to students who have taken course 8.

Pl 11. Ethics.—Theoretical and practical ethics. A lecture course. Two hours a week. Given in the fall term of even years. Open to students who have taken course 1.

PHYSICS

Professor Stevens; Mr. Ham; Mr. Bearce

[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. Five hours a week. Fall term. Open to students who have taken Ms 4.

Ps 2. General Physics.—A continuation of course 1; heat and electricity. Five hours a week. Spring term.

Ps 3. Elementary Physics.—A non-mathematical course, covering the ground of course 1. The recitations are supplemented by lectures and experimental demonstrations. Four hours a week. Spring term.

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

Ps 6. Laboratory Physics.—A brief course for students who have taken Ps 3. †Two hours a week. Spring term.

Ps 7. Optics.—Lectures in continuation of course 1, based chiefly upon Preston's Light and Drude's Optics. Three hours a week. Spring term. Open to students who have taken Ms 8.
Ps 8. Mathematical Physics.—A course in mathematical physics is offered each year. The subject varies. Two hours a week. Fall term. Open to students who have taken Ms 8.

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

Ps 10. Optics.—Advanced laboratory work in continuation of course 5. †Four hours a week. Spring term.

Ps 11. Electrical Measurements.—Advanced laboratory work in continuation of course 5. The charge for this course is $2.50. †Six hours a week. Fall term.

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 term.


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

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

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

ROMANCE LANGUAGES

Professor Segall; Mr. Shute

Rm 1. French.—Elementary course. Grammar, translation, composition, pronunciation, dictation. Bruce, Grammaire Française; Sym’s, Reader; Verne, Une Ville Flottante; Dumas, Le Comte de Monte-Cristo; Labiche, Moi; Erckmann-Chatrian, Waterloo; Vigny, Cinq-Mars. Five hours a week. Fall term.
Rm 2. French.—A continuation of course 1. *Five hours a week.*
Spring term.

Rm 3a. French.—For students who have taken courses 1 and 2, or their equivalent. Translation, retranslation, pronunciation, dictation, word-study, idioms. Readings from French history; short stories; Sandeau, Mlle. de la Seiglière; About, La Mère de la Marquise and La Fille du Chanoine; Hugo, *Quatre-vingt-treize.* *Three hours a week.*
Fall term.

Rm 3b. French.—A continuation of course 3a. *Two hours a week.*
Spring term.

Rm 4a. French.—For students who have taken courses 3a and 3b, or their equivalent. Translation, retranslation, pronunciation, dictation, word-study, idioms. Lamartine, *Histoire de la Gironde* (selections); Luquiens, *Places and Peoples*; Balzac, *Eugénie Grandet* and selected stories; Taine, *L'Ancien Régime.* *Three hours a week.*
Fall term.

Rm 4b. French.—A continuation of course 4a. *Three hours a week.*
Spring term.

Rm 5a. French.—For students who have taken at least courses 1 and 2, or their equivalent. Conversation, composition; elementary course. Bacon, *Une Semaine à Paris*; Bruno, *Le Tour de la France*; Foncin, *Le Pays de France*; Chardenal, Advanced French Exercises. *Two hours a week.*
Fall term.

Rm 5b. French.—A continuation of course 5a. *Two hours a week.*
Spring term.

Rm 6a. French.—For students who have taken courses 4a and 4b. Rapid reading of recent novelists. *Two hours a week.*
Fall term.

Rm 6b. French.—A continuation of course 6a. *Two hours a week.*
Spring term.

Rm 7a. French.—For students who have taken courses 5a and 5b. Conversation, composition; advanced course. *Two hours a week.*
Fall term.

Rm 7b. A continuation of course 7a. *Two hours a week.*
Spring term.
The University of Maine

Rm 9a. SPANISH.—Elementary course. Loiseaux, Grammar; Wor- 
man, First and Second Spanish Books; Ramsey, Spanish Reader; Loi- 
seaux, Spanish Composition; Alarcón, Novelas Cortas Escogidas; Miguel 
Ramos Carrion y Vital Aza, Zaragüeta. Three hours a week. Fall 
term.

Rm 9b. SPANISH.—A continuation of course 9a. Three hours a week. 
Spring term.

Rm 10a. SPANISH.—For students who have taken courses 9a and 9b, 
or their equivalent. Monsanto and Languellier, Spanish Course; Galdós, 
Marianela, Electra; Valera, El Comendador Mendoza. Two hours a 
week. Fall term.

Rm 10b. SPANISH.—A continuation of course 10a. Two hours a 
week. Spring term.

Rm 11a. ITALIAN.—An elementary course, elective for students who 
have completed course 2. Grandgent, Italian Grammar. Bowen, First 
Italian Readings. Three hours a week. Given in the fall term of odd 
years.

Rm 11b. ITALIAN.—A continuation of course 11a. Grandgent, Italian 
Composition; Goldoni, La Locandiera; De Amicis, Cuore; Manzoni, 
I Promessi Sposi. Three hours a week. Given in the spring term of 
even years.
ORGANIZATION OF THE UNIVERSITY

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

COLLEGE OF ARTS AND SCIENCES
The Bachelor of Arts Courses
The Bachelor of Science Courses
The Summer Term

COLLEGE OF AGRICULTURE
The Agricultural 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
The Forestry Course

COLLEGE OF PHARMACY
The Pharmacy Course
The Short Course in Pharmacy

COLLEGE OF LAW
THE AGRICULTURAL EXPERIMENT STATION

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 appropriate bachelor's degree. They have the following common requirements 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 in 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.
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.  Dean and Professor of Physics
† MERRITT CALDWELL FERNALD, Ph. D., LL. D.

ALFRED BELLAMY AUBERT, M. S.
Professor of Philosophy

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

† JAMES NORRIS HART, C. E., M. S.
Professor of Civics

FREMONT LINCOLN RUSSELL, B. S., V. S.
Professor of Mathematics and Astronomy

† HORACE MELVYN ESTABROOKE, M. A.
Professor of Biology

JOHN HOMER HUDDILSTON, Ph. D.
Professor of English

GILMAN ARTHUR DREW, Ph. D.
Professor of Greek

RALPH KNEELAND JONES, B. S.
Professor of Biology

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

MAX CARL GUENTHER LENTZ
Assistant Professor of Germanic Languages

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

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

† EUGENE LOUIS RAICHE
Instructor in French

† WILLIAM MORTON BARROWS
Instructor in Botany

* Absent on leave.
† Gives instruction in the Summer Term.
The University of Maine

HENRY MARTIN SHUTE, M.A.  
Instructor in Romance Languages

MARSHALL BAXTER CUMMINGS, M.S.  
Instructor in Botany

HARLEY RICHARD WILLARD, M.A.  
Instructor in Mathematics

RAYMOND KURTZ MORLEY, M.A.  
Instructor in Mathematics

WALTER EVERETT PRINCE, M.A.  
Instructor in English

WILLIAM ROSS HAM, B.A.  
Instructor in Physics

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

RALPH LOWE SEABURY, B.S.  
Instructor in Biological and Agricultural Chemistry

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

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

FLORENCE BALENTINE, B.A.  
Tutor in Biology

HENRY WALTER BEARCE, B.S.  
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 aim of this college is to furnish a liberal education, and to afford opportunity for specialization along literary, philosophical, and general and special scientific lines. 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, 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 BACHELOR OF ARTS COURSES**

Students in the College of Arts and Sciences who have met the entrance requirements, and have taken a year's Latin or Greek in college, are candidates for the degree of Bachelor of Arts. This represents the minimum amount of work that must be taken in the classical languages. Opportunity is offered the student to take special work in Greek or Latin or both during his course.

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 Arts.

**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, 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.

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.

**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 coordinate with that of the remainder of the year. The majority of the courses offered are of
The University of Maine

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 BACHELOR OF ARTS COURSES

Students in the College of Arts and Sciences who have met the entrance requirements, and have taken a year's Latin or Greek in college, are candidates for the degree of Bachelor of Arts. This represents the minimum amount of work that must be taken in the classical languages. Opportunity is offered the student to take special work in Greek or Latin or both during his course.

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 Arts.

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, 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.

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.

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 coordinate with that of the remainder of the year. The majority of the courses offered are of
college grade and, when completed, the student receives 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 get ahead in their course, or who may have back work to make up. 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.

Courses of Instruction in the Summer Term

Botany

Mr. Barrows:

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.

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
The University of Maine

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.

3. English Poetry. A careful and appreciative study of selected poems from the writings 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.

An additional course in Shakespeare (a careful reading of a few of the best plays) will be given, if there is sufficient demand. Should teachers so desire meetings will be appointed for the discussion of problems of teaching English in the schools.

French

Mr. Raiche:

1. An elementary course 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, "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: Frazer and Squair's French Grammar (D. C. Heath & Co.), Hugo's La Chute, Augier's Le Gendre de M. Poirier (D. C. Heath & Co.).

German

Professor Chase:

1. Elementary Course. Harris's German Lessons, Huss's German Reader, Storm's Immensee. Intended for students who are deficient in college entrance requirements in German.

2. Advanced Course. Covering part of the work in reading and composition usually done in the second year in German. Lessing's Minna von Barnhelm, Harris's German Composition.

3. A lecture course in Germanic literature. These lectures will be of a popular nature and will be open to the public.
The University of Maine

**History**

*Professor Colvin:*

2. The Civil War and Reconstruction. The causes and effects of the Civil War in America, with some discussion of the condition of the country during the great struggle.

**Latin**

*Professor Chase:*

The needs of the teacher of preparatory Latin will receive special attention; text-books, methods, matter, and manner in preparatory teaching of classics will be handled in weekly conferences. The University possesses a large collection of lantern slides and photographs, and these as well as the other extensive aids for classical instruction will be at hand for the examination and use of students.

1. Virgil. Reading of portions of the *Aeneid* with the double purpose of covering the ground for the needs of college entrance requirements, and for the methods available for high-school teachers. Discussion of matter pertaining to Virgilian literature, helps for instruction, the epic style, and other topics that assist in making an appreciative understanding of Virgil.

2. Cicero. Selected orations, including the four against Catiline. Prose composition and syntax so far as time permits will form a feature of this course.

**Mathematics**

*Professor Hart:*

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. Wentworth's Solid Geometry will probably be used as the text-book, but Philips and Fisher's, Wells's, 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.

Nature Study

Professor Hurd:

At the last session of the Maine Legislature the committee on education recommended that "Nature Study" or "Elementary Agriculture" be taught in the normal schools of the State. In a short time this work will no doubt be required in many of the public schools. Recognizing the value of the subject, and wishing to cooperate in this movement, the University will offer at its summer session a course for teachers which will familiarize them with the principal phases of the subject and help them to carry on such work when called upon to do so. The grounds, land, animals, and other equipment of the University will be used in an illustrative way. Briefly stated the following are some of the topics treated:

Plants:
General Structure. Function and relation of the different parts. Conditions necessary to plant growth. Seed selection and germination. How plants may be improved. Classification and uses of several principal plants used in the industrial world.

Soils:

Animals:
Relation of animal life to plant life and other forms of nature. Importance of domestic animals in our daily life. Structure, food, habits, and development of our domestic animals.

Plant Diseases, Insects, and Weeds:
The causes, nature of, and common remedies for plant diseases. Friendly and injurious insects and ways of controlling them.
The University of Maine

A study of the weeds common to the neighborhood and best methods of eradicating.

School Gardens:
A study of the school garden movement of this and other countries. The planning, laying out, and caring for school gardens, putting into practice the principles studied relating to the plant and the soil.

Improvement of School Grounds:
Grading the grounds, making the lawn, selection, arrangement, planting, and caring for trees, shrubs, and flowers, and general methods of procedure.

Nature Economics:
A history and discussion of some of the more important crops and their influence on the industrial and social life of the country. The presentation of such topics in an interesting way to children.

Pedagogy

Professor Fernald:
Two courses are offered.
1. The Principles of Pedagogy and School Management.
2. History of Education.

Under No. 1, among the topics considered are: the principles of psychology applied to the art of teaching; the order in which the several powers of the mind become active, their development at different school periods, and hence the order of studies based thereon; the principles and methods of teaching; the recitation, its objects and methods; testing by questions, by topics; school incentives; the art of governing; school administration and management and psychical facts applied to moral training. This course is designed to aid the teacher in his effort to attain higher efficiency in the class-room and in the practice of the teacher's art.

Under No. 2, the aim is to develop, for present and future service, an educational science based on the clear and definite teachings of the past. Accordingly, the educational system, methods, theories, and practices of the leading historic nations are studied, with a view of determining what errors of the past to avoid, and what successful methods and practices to adopt. Finally, a brief comparative study is made of the school systems of the present more advanced nations, especially of those of Germany, France, England, and the United States.
The University of Maine

The special text-books recommended are: White's Principles of Pedagogy, White's School Management, and Seeley's History of Education, all published by the American Book Company.

Physics

Professor Stevens:
1. An elementary laboratory course. This includes the list of experiments adopted by the Maine colleges for admission in physics.
2. Advanced course. 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.

Lectures, 1906

Hon. W. W. Stetson, State Superintendent of Schools:
Some Educational Problems.

Professor Stevens: Modern Theories of Matter.
Professor Estrabrooke: Some Characteristics of Poetry.
Librarian Jones: How to use a Library.
Professor Chase: Spelling Reform.
Professor Colvin: The Algeciras Treaty.
Mr. and Mrs. Raiche: French Reading—Le Duel.

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, excepting Sunday, and Saturday afternoon.

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
The University of Maine

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.

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, $10.00.
  - For residents of other states, $15.00.
- 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
The University of Maine

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 1906. Unimportant changes are likely to be made for the coming term.
The University of Maine

THE 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.
Acting Dean and Professor of Agronomy

ALFRED BELLAMY AUBERT, M. S.
Professor of 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

GILBERT MOTTIER GOWELL, M. S.
Professor of Animal Industry

GILMAN ARTHUR DREW, Ph. D.
Professor of Military Science and Tactics

RALPH KNEELAND JONES, B. S.

WALTER STEVENS BROWN

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

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

CHARLES PARTRIDGE WESTON, C. E., M. A.
Assistant Professor of Mechanics and Drawing

MAX CARL GUENTHER LENTZ
Assistant Professor of Germanic Languages

ARTHUR WITTER GILBERT, M. S.
Assistant Professor of Agronomy

GEORGE RUFUS WHEELER, M. A.

ARCHER LEWIS GROVER, B. S.
Acting Assistant Professor of English

HENRY MARTIN SHUTE, M. A.
Instructor in Drawing

MARSHALL BAXTER CUMMINGS, M. S.
Instructor in Botany

HARLEY RICHARD WILLARD, M. A.
Instructor in Mathematics

RAYMOND KURTZ MORLEY, M. A.
Instructor in Mathematics

MATTHEW HUME BEDFORD, Ph. D.
Instructor in Chemistry
The University of Maine

WALTER EVERETT PRINCE, M. A.  
Instructor in English
PERCY ANDERSON CAMPBELL, M. S. A.  
Instructor in Animal Industry
PERCY LORING REYNOLDS, M. D.  
Physical Director and University Physician
RALPH LOWE SEABURY, B. S.  
Instructor in Biological and Agricultural Chemistry
ELMER EARL MOOTS, B. C. E.  
Instructor in Mathematics
WINDSOR PRATT DAGGETT, Ph. B.  
Instructor in Public Speaking
MAXWELL JAY DORSEY, B. S.  
Instructor in Horticulture
FLORENCE BALENTINE, B. A.  
Tutor in Biology

GENERAL INFORMATION

The College of Agriculture comprises the departments of Agronomy, Animal Industry, and Horticulture, 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, and practical men.

The courses of instruction are organized as follows:

1. **The Regular Courses**:
   - The four years general course in Agronomy, Animal Industry, and Horticulture
   - The special courses in Agronomy, Animal Industry, and Horticulture
   - The two years School Course in Agriculture
   - The short winter courses in Agronomy, Animal Industry, and Horticulture
   - The two weeks course in Poultry Management and Horticulture

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

**The College Courses**

The college courses are designed for those who wish to follow agriculture, animal husbandry, or horticulture as a business, or who purpose to become teachers or investigators in related sciences. The instruction
The University of Maine

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 merely 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.

**The General Course in Agronomy, Animal Industry, and Horticulture**

**Freshman Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Ag 1, Agronomy</td>
<td>2</td>
<td>An 1, Animal Industry</td>
<td>2</td>
</tr>
<tr>
<td>Ag 2, Lab. Agronomy †2</td>
<td>1</td>
<td>An 2, Lab. Animal Industry †2</td>
<td>1</td>
</tr>
<tr>
<td>Bl 1 and 2, Biology</td>
<td>3</td>
<td>Bl 9, Physiology</td>
<td>2</td>
</tr>
<tr>
<td>Ch 1 and 3, Chemistry</td>
<td>3</td>
<td>Bl 21 and 22, Botany</td>
<td>3</td>
</tr>
<tr>
<td>Eh 1 and 3, English</td>
<td>4</td>
<td>Ch 2 and 4, Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Md 1, Drawing †4</td>
<td>2</td>
<td>Eh 1 and 4, English</td>
<td>4</td>
</tr>
<tr>
<td>Mt 1, Military †5</td>
<td>2½</td>
<td>Mt 1, Military †5</td>
<td>2½</td>
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<tr>
<td><strong>17½</strong></td>
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<td><strong>18½</strong></td>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Ag 3, Agronomy †4</td>
<td>2</td>
<td>Ag 4, Agronomy</td>
<td>2</td>
</tr>
<tr>
<td>An 3, Animal Industry</td>
<td>2</td>
<td>Bl 15, Veterinary Science</td>
<td>2</td>
</tr>
<tr>
<td>Ch 14, Chemistry †8</td>
<td>4</td>
<td>Eh 2, English</td>
<td>1</td>
</tr>
<tr>
<td>Eh 2, English</td>
<td>1</td>
<td>Ht 2, Horticulture</td>
<td>2</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
<td>Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Ms 2, Mathematics</td>
<td>5</td>
<td>Ms 1 and 4, Mathematics</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective</td>
<td>6</td>
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<tr>
<td><strong>17</strong></td>
<td></td>
<td><strong>20</strong></td>
<td></td>
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</tbody>
</table>
The University of Maine

**JUNIOR YEAR**

**Fall Term**
- Ag 5, Agronomy .................. 3
- An 4, Animal Industry ......... 2
- Ch 29, Agricultural Chemistry 5
- Ht 3, Horticulture †2 .......... 1
- Ht 6, Horticulture ............. 2
- Modern Language ................ 3
- Elective .......................... 2

**Spring Term**
- An 5, Animal Industry ......... 2
- An 6, Lab. An. Industry †4 ... 2
- Bl 17, Bacteriology (†10 hrs.
  wk, 9 w.) .......................... 2½
- Ch 30, Biological Chemistry .. 5
- Ht 4, Horticulture .............. 3
- Ht 5, Horticulture †4 .......... 2
- Modern Language ............... 2
- Elective .......................... 1½

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**SENIOR YEAR**

**Fall Term**
- Ag 6, Agronomy, or
- An 7, Animal Industry, or
- Ht 6 or 8, Horticulture ....... 3
- Thesis ............................ 3
- Elective ......................... 14

**Spring Term**
- Ag 7, Agronomy, or
- An 8, Animal Industry, or
- Ht 9, Horticulture ............ 2
- Bl 15, Veterinary Science ..... 2
- Thesis ............................ 3
- Elective .......................... 13

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The following subjects are included in a major in Agriculture:

- Ag 1 to 6, Agronomy...................... 2 credits
- An 1 to 7, Animal Industry............ 2 credits
- Bl 15, Veterinary Science .......... 4-5 credit
- Ch 29, Agricultural Chemistry .... 1 credit
- Ch 30, Biological Chemistry ....... 1 credit
- Ht 1 to 5, Horticulture .......... 2 credits

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Total ........................................ 8-4-5 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 Special Courses in Agronomy, Animal Industry, and Horticulture

The Special Courses are designed for young men 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 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.*

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 expected 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.

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

The following is a schedule of the work as given:
The University of Maine

FIRST YEAR

**Fall Term**
- Farm Crops and Farm Mechanics
- Animal Industry
- Orchard and Garden
- English
- Business Arithmetic and Farm Accounts
- Carpentry

**Spring Term**
- Farm Crops and Farm Mechanics
- Animal Industry and Dairy Work
- Garden and Orchard
- English
- Veterinary Science
- Forge Work

SECOND YEAR

**Fall Term**
- Farm Crops and Farm Mechanics
- Animal Industry
- Orchard and Garden
- Farm Chemistry
- Farm Botany
- English

**Spring Term**
- Farm Crops and Farm Mechanics
- Animal Industry
- Insects
- Farm Forestry
- Veterinary Science
- English

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 two seasons' satisfactory work is performed 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.

THE TWO WEEKS COURSE IN POULTRY WORK AND HORTICULTURE

On the first Tuesday in April the special course in Poultry Work and Horticulture will commence.

The poultry instruction is conducted to aid persons who wish for practical knowledge in conducting this line of work. Most of the time is devoted to the handling of incubators and brooders; the care and
feeding of young chicks; and caring for the laying birds. Two lectures are given each day and discussions are held on poultry subjects.

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 the outcome of the poultry investigations at Maine Experiment Station.

The work in horticulture supplementing the above will be a study of orchard culture, vegetable gardening, spraying, plant diseases, grafting, and improving the home grounds.

The Correspondence Courses

The object of these courses is to give, directly in the home, the best training in practical agriculture, horticulture, and animal industry that can be given by this method of teaching. The 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 the various Experiment Stations. The text-books are furnished at cost. The courses are free, and may be studied by individuals or granges, and other organizations may form Reading Clubs for study. Full information will be furnished upon application.

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

The 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. A circular giving the names of the lecturers and the subjects on which they will speak will be sent on application.

Besides the Correspondence and Lecture Courses, the College of Agriculture welcomes all kinds of correspondence on practical farm topics. If information is desired along lines related to crops, fertilizers, dairy work, feeding, or orcharding and gardening, the various instructors are ready to give such assistance as they may be able.
THE COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

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

ALFRED BELLAMY AUBERT, M. S.  Professor of 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

JAMES STACY STEVENS, M. S.  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 SHERBURNES BOARDMAN, C. E.  Professor of Civil Engineering

GORDON EDWIN TOWER, B. S., M. F.  Professor of Forestry

WALTER KIERSTED GANONG, B. Sc.  Professor of Electrical Engineering

ARTHUR CRAWFORD JEWETT, B. S.  Professor of Mechanical Engineering

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

WALTER STEVENS BROWN  Professor of Military Science and Tactics

CHARLES PARTRIDGE WESTON, C. E., M. A.  Assistant Professor of Mechanics and Drawing

MAX CARL GUENTHER LENTZ  Assistant Professor of Germanic Languages

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

ARCHER LEWIS GROVER, B. S  Instructor in Drawing

HENRY MARTIN SHUTE, M. A.  Instructor in Romance Languages

MARSHALL BAXTER CUMMINGS, M. S.  Instructor in Botany

HARLEY RICHARD WILLARD, M. A.  Instructor in Mathematics

RAYMOND KURTZ MORLEY, M. A.  Instructor in Mathematics

EVERETT WILLARD DAVIE  Instructor in Wood and Iron Work
The University of Maine

MATTHEW HUME BEDFORD, Ph. D.  Instructor in Chemistry
THOMAS McCHEYNE GUNN, B. S., M. A.  Instructor in Mechanical Engineering
WALTER EVERETT PRINCE, M. A.  Instructor in English
WILLIAM ROSS HAM, B. A.  Instructor in Physics
PERCY LORING REYNOLDS, M. D.  Physical Director and University Physician
RALPH LOWE SEABURY, B. S.  Instructor in Biological and Agricultural Chemistry
CHARLES BARTO BROWN, C. E.  Instructor in Civil Engineering
ELMER EARL MOOTS, B. C. E.  Instructor in Mathematics
WINDSOR PRATT DAGGETT, Ph. B.  Instructor in Public Speaking
HARRY ALVAH EMERY, B. S.  Instructor in Civil Engineering
CHARLES JENKINS CARTER  Instructor in the Machine Shop
GUSTAV FREDERICK WITTIG, B. S., E. E.  Instructor in Electrical Engineering
FLORENCE BALENTINE, B. A.  Tutor in Biology
HENRY WALTER BEARCE, B. S.  Tutor in Physics

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
The Forestry 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.
The University of Maine

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>Fall Term</th>
<th>Hours</th>
<th>Spring Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Rm 3a, French</td>
<td>3</td>
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<tr>
<td>Eh 3, English Composition and Rhetoric</td>
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<td>Eh 4, English Composition and Rhetoric</td>
<td>3</td>
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<td>Ms 2, Algebra</td>
<td>5</td>
<td></td>
<td>Ms 4, Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 1, General Chemistry</td>
<td>2</td>
<td></td>
<td>Ms 6a, Analytical Geometry</td>
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<tr>
<td>Ch 3, Lab. Chemistry † 2</td>
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<td>Mt 1, Military † 5</td>
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<td>Mt 1, Military † 5</td>
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<tr>
<td></td>
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**Sophomore Year**

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<th>Hours</th>
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<td>Gm 2, German</td>
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</tr>
<tr>
<td>Ps 12, General Physics</td>
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<td>Ch 5, Advanced Inorganic Chemistry</td>
<td>2</td>
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<td>Ch 6, Advanced Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 14, Qualitative Analysis † 8</td>
<td>4</td>
<td></td>
<td>Ch 15, Qualitative Analysis † 8</td>
<td>4</td>
</tr>
<tr>
<td>Eh 2, Themes</td>
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<td>Bl 1, 2, General Biology</td>
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<tr>
<td></td>
<td>20</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>Subject</th>
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<th>Hours</th>
<th>Spring Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Gm 3a, German</td>
<td>3</td>
<td></td>
<td>Gm 3b, German</td>
<td>3</td>
</tr>
<tr>
<td>Ch 16, 18, Quant. Anal. † 12</td>
<td>6</td>
<td></td>
<td>Ch 8, Organic Chemistry</td>
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<tr>
<td>Ch 7, Organic Chemistry</td>
<td>3</td>
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<td>Ch 19, Volumetric Analysis and Assaying † 15</td>
<td>7½</td>
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<tr>
<td>Ch 30, Biological Chemistry</td>
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<td></td>
<td>Elective</td>
<td>6</td>
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<tr>
<td>Elective</td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td>19</td>
<td></td>
<td>18½</td>
<td></td>
</tr>
</tbody>
</table>

IQ 181/2 121
SENIOR YEAR

Fall Term
Ch 12, Chemical Preparations .......................... 4
Ch 20, Agricultural Analysis ............................. 7
Ch 21, Toxicology Urinalysis ............................. 3
Ch 23, Organic Chemistry ................................ 3
Ch 24a, Industrial Chemistry ............................ 2
Bl 13, Geology ........................................... 3
Elective .................................................. 5

Spring Term
Ch 24b, Industrial Chemistry ............................ 2
Ch 28, Dyeing ............................................. 1
Ch 22, Thesis ............................................. 1
Ch 25, Technical Analysis ................................. 3
Bl 9, Physiology .......................................... 2
Ch 13, Chemical Equations ............................... 2
Elective .................................................. 5

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.

SOPHOMORE YEAR

Fall Term
Subject Hours
Ps 1, General Physics ......................... 5
Ch 5, Adv. Inorganic Chemistry ........... 2
Ch 14, Qualitative Analysis †6 ........... 3
Me 3, Drawing †2 ................................. 1
Ms 6b, Anal. Geom. (12 weeks) .......... 3
Ms 7, Calculus (6 weeks) ................. 2
Me 7, Valve Gears ............................... 2
Eh 2, Themes ....................................... 1

Spring Term
Subject Hours
Ps 2, General Physics ......................... 3
Ps 5, Lab. Physics †4 ........................... 2
Ch 6, Adv. Inorganic Chemistry .......... 3
Ch 15, Qualitative Analysis †6 ......... 3
Ce 7, Field Work †3 ............................ 1½
Ms 8, Calculus ................................... 5
Eh 2, Themes ....................................... 1

19 20½

122
The Civil Engineering Course

The course in Civil Engineering has for its object the laying of a firm foundation in the theoretical and practical principles upon which the profession depends, so that on graduation the student may be fitted to apply himself at once to engineering work.

Especially attention is given to mathematics, mechanics, drawing, and the care and use of engineering instruments; at the same time care is taken to include those subjects that tend to broaden the mind and form the basis of a liberal education.

It is impressed upon the student that the scope of civil engineering is so broad that he may never expect to become expert in all its branches, and that on completion of his course he should obtain a position in that branch which seems best suited to him, so that he may begin to obtain experience and judgment, without which he can never become success-
The University of Maine

ful. Students are encouraged to work during the summer months in engineering lines.

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

The engineering building contains recitation rooms, designing rooms, testing laboratories, drawing rooms, a filing and reference room, and instrument rooms, and is well equipped with apparatus.

The following studies constitute the regular four years course. It is seen that beginning with the junior year the student is allowed to elect a certain part of his work from any department in the University, with the consent of his major instructor.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Term</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Ch 1, Chemistry</td>
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<td>Ch 2, Chemistry</td>
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<td>Ch 3, Lab. Chemistry</td>
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<td>Ch 4, Chemistry</td>
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<tr>
<td>Md 1, Drawing</td>
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<td>Ms 2, Algebra</td>
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<td>Ms 4, Trigonometry</td>
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<td>Mt 1, Military Drill</td>
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<td>19½</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Term</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Term</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Md 9, Drawing</td>
<td></td>
<td>2</td>
<td>Ce 1, Surveying</td>
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<tr>
<td>Ce 5, Highway Eng</td>
<td></td>
<td>1</td>
<td>Ce 2, Surveying (fld. wk.)</td>
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<tr>
<td>Ce 18, Sanitary Science</td>
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<td>Eh 2, English Composition</td>
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<td>Eh 2, English Composition</td>
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<td>1</td>
<td>Md 4, Descriptive Geometry</td>
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<tr>
<td>Md 3, Descriptive Geometry</td>
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<td>Modern Language</td>
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<tr>
<td>Modern Language</td>
<td></td>
<td>3</td>
<td></td>
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</tr>
</tbody>
</table>

* Students beginning a new language must take a five hour course the first year, which will complete the modern language requirements. In this case Eh 3, English Composition, will be taken in the sophomore year.
The University of Maine

Ms 6b, Analytic Geom          Ms 8, Calculus                      5
Ms 7, Calculus                Ps 2, Physics                       3
Ps 1, Physics                 Ps 5, Physics † 4                   2

20                                      20

JUNIOR YEAR

Fall Term                          Spring Term
Ce 3, Railroad Curves, etc......... 3  Ce 7, Drawing, 9 wks. † 6 h... 1½
Ce 4, Railroad Fld. Wk. † 6        3  Ce 9, Summer School............. 3
Ce 7, Drawing, 9 wks., † 6 h........ 1½  Ce 10, Hydraulics............. 3
Md 5, Mechanics                   Md 6, Mechanics............. 5
Elective                          Ce 21, Structures................ 2
                                 Elective....................... 2

18½                                      18½

SENIOR YEAR

Fall Term                          Spring Term
Ce 11, Hydraul. Fld Wk. † 4        2  Ce 13, Structures............... 5
Ce 12, Structures.................... 3  Ce 15, Designing † 15 for 10
Ce 14, Designing † 10             5  wks.                         4
Ce 20, Masonry Construction........ 2  Thesis
Elective                          Elective................... 8

17                                      17

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 have been chosen with the object of giving the student a fundamental engineering training such as shall enable him successfully to enter any one of the many lines of work in the field of mechanical engineering, and at the same time to form the basis of a liberal education. Therefore the required work covers a wide range of subjects in both technical and general work, as appears in the list given below.
Thorough instruction in pure and applied mathematics, physics, and mechanics is given to prepare the student to deal with the problems of his profession. The work in drawing and descriptive geometry commences in the freshman year and continues throughout the course, especial attention being given to arranging, lettering, and dimensioning the drawing so as to conform to the best practice.

The design, construction, and operation of steam boilers and engines is taught by courses in machine design, thermodynamics, fuels, valve gears, steam boiler design, and steam engine design. Tests of steam boilers, steam and gas engines, etc., are made and studied during the senior year. Courses in surveying, hydraulics, and hydraulic machinery are open to the student. The production of materials used in construction is studied and their properties verified by tests in the mechanical laboratories. A working knowledge of electrical machines is given by lectures in the class-room and practice in the laboratory. During the senior year an option in marine engineering is offered, giving an opportunity for the student to specialize in the steam engineering work involved in ship propulsion.

This class-room work is supplemented by extensive courses in woodwork and pattern making, forging, machine tool work, and foundry practice.

Detailed descriptions of the subjects in the following list of required work may be found under "Courses of Instruction."

**Requirements for Graduation**

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall Term</th>
<th>Hours</th>
<th>Spring Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 1, Chemistry</td>
<td>2</td>
<td>Ch 2, Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Ch 3, Chemistry Lab.</td>
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<td>Ch 4, Chemistry Lab.</td>
<td>1</td>
</tr>
<tr>
<td>Eh 1, English</td>
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<td>Eh 1, English</td>
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<tr>
<td>Eh 3, English</td>
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<td>Eh 4, English</td>
<td>3</td>
</tr>
<tr>
<td>* Modern Language</td>
<td>3</td>
<td>* Modern Language</td>
<td>2</td>
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<tr>
<td>Md 1, Drawing</td>
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<td>Md 2, Drawing</td>
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<td>Ms 2, Algebra</td>
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</table>

* Students beginning a new language must take a five hours course the first year, which will complete the modern language requirements. In this case Eh 3, English Composition, will be taken in the sophomore year.
The University of Maine

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eh 2, Themes</td>
<td>1</td>
</tr>
<tr>
<td>Md 3, Descriptive Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Md 9, Drawing</td>
<td>2</td>
</tr>
<tr>
<td>Ms 6b, Analytic Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Ms 7, Calculus</td>
<td>2</td>
</tr>
<tr>
<td>Ps 1, Physics</td>
<td>5</td>
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<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Me 1, Wood Work</td>
<td>2</td>
</tr>
<tr>
<td>Eh 2, Themes</td>
<td>1</td>
</tr>
<tr>
<td>Md 4, Descriptive Geometry</td>
<td>2</td>
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<tr>
<td>Ps 2, Physics</td>
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<tr>
<td>Ps 5, Physics Lab.</td>
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<tr>
<td>Ms 8, Calculus</td>
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<td>Modern Language</td>
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<td>Me 2, Forge Work</td>
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<tr>
<td>Me 4, Kinematics</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Ee 9, Elect. Eng.</td>
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<tr>
<td>Md 5, Mechanics</td>
<td>5</td>
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<tr>
<td>Me 5, Machine Work</td>
<td>4.5</td>
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<tr>
<td>Ps 9, Physics</td>
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<tr>
<td>Me 3, Mechanism of Mach.</td>
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<tr>
<td>Me 24, Kinematical Drawing</td>
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<tr>
<td>Md 6, Mechanics</td>
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<tr>
<td>Me 5, Machine Work</td>
<td>3</td>
</tr>
<tr>
<td>Me 8, Machine Design</td>
<td>3</td>
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<tr>
<td>Me 9, Materials of Engineering</td>
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<tr>
<td>Me 10, Fuels</td>
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<tr>
<td>Me 15, Mechanical Lab.</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Ee 10a, Elect. Laboratory</td>
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<tr>
<td>Me 11, Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Me 12, Steam Boiler Design</td>
<td>3</td>
</tr>
<tr>
<td>Me 15, Mechanical Eng. Lab.</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Me 7, Valve Gears</td>
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</tr>
<tr>
<td>Me 15, Mechanical Eng. Lab.</td>
<td>2.1</td>
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<tr>
<td>Me 16, Steam Engineering</td>
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</tr>
<tr>
<td>Me 17, Steam Engine Design</td>
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<tr>
<td>Electives</td>
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</table>

Total hours: 19.5 + 19.5 + 20 + 18.5 + 18.5 + 17 + 17 = 150

**Electives** = 2 + 2.5 + 8 + 10 = 22.5

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.
The University of Maine

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.

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 most of the standard forms of instruments and machines.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Term</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 1, Chemistry</td>
<td>2</td>
<td></td>
<td>Ch 2, Chemistry</td>
<td>3</td>
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<tr>
<td>Ch 3, Lab. Chemistry</td>
<td>1</td>
<td></td>
<td>Ch 4, Lab. Chemistry</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Eh 1, Public Speaking</td>
<td>1</td>
<td></td>
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<tr>
<td>Eh 3, English Composition</td>
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<td>Eh 4, English Composition</td>
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<tr>
<td>Md 1, Drawing</td>
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<td>Md 2, Drawing</td>
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</tr>
<tr>
<td>*Modern Language</td>
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<tr>
<td>Ms 2, Algebra</td>
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<td></td>
<td>Ms 4, Trigonometry</td>
<td>3</td>
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<tr>
<td>Mt 1, Military</td>
<td>2½</td>
<td></td>
<td>Mt 1, Military</td>
<td>2½</td>
<td></td>
</tr>
<tr>
<td>Ms 6a, Analytic Geom</td>
<td>2</td>
<td></td>
<td>Ms 6a, Analytic Geom</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

19½

* Students beginning a new language must take a five-hour course the first year. This will complete the Modern Language requirement. In this case Eh 3, English Composition, will be taken in the sophomore year.
## SOPHOMORE YEAR

### Fall Term
- Eh 2, Themes.......................... 1
- Md 3, Descriptive Geom............. 2
- Me 1, Wood Work † 4................. 2
- Md 9, Drawing † 4.................... 2
- Modern Language..................... 3
- Ms 6b, Analytic Geometry.......... 3
- Ms 7, Calculus....................... 2
- Ps 1, Physics.......................... 2

### Spring Term
- Eh 2, Themes.......................... 1
- Md 4, Descriptive Geom............. 2
- Me 2, Forge Work † 4................. 2
- Me 4, Kinematics..................... 3
- Modern Language..................... 2
- Ms 8, Calculus....................... 5
- Ps 2, Physics......................... 3
- Ps 5, Lab. Physics † 4.............. 2

### JUNIOR YEAR

### Fall Term
- Ee 1a, Elements of Elec. Engineering ................................... 2
- Md 5, Mechanics.......................... 5
- Me 5, Machine Work † 4................. 2
- Me 10, Fuels............................. 2
- Ps 11, Electrical Meas. † 6........... 3
- Elective.................................. 4

### Spring Term
- Ee 1b, Elements of Elec. Engineering ................................... 3
- Ee 2b, Lab. Work † 2................. 1
- Md 6, Mechanics.......................... 5
- Me 5, Machine Work † 4................. 2
- Me 8, Machine Design ‡........... 3
- Elective.................................. 4

### SENIOR YEAR

### Fall Term
- Ee 3a, Elements of Alt. Current Circuits ................................... 3
- Ee 4a, Electrical Development.. 3
- Ee 5a, Design of Electrical Machinery † 4.................. 2
- Ee 6a, Lab. Work † 4................. 2
- Me 11, Steam Engineering.......... 3
- Elective.................................. 5

### Spring Term
- Ee 3b, Alt. Current Machinery 2
- Ee 7b, Electrical Engineering.. 2
- Ee 5b, Design of D. C. and A. C. Machinery....................... 1½
- Ee 6b, Lab. Work † 4................. 2
- Ee 8b, Electrical Engineering Practice † 2..................... 1
- Me 26, Mechan. Lab. † 3........... 1½
- Elective.................................. 7

### At graduation the student receives the degree of Bachelor of Science.

Upon the completion of one year's prescribed graduate work in residence,

‡ Me 8 may be replaced by Ce 1 and Ce 2, Plain Surveying and Field Work, 2 hours and ‡ 3 hours respectively.
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 Mining Engineering Course**

In this department the course of study for the first two years is identical with that in civil engineering, except that, during the second year, class and laboratory work in chemistry takes the place of the courses in mechanical drawing, descriptive geometry and surveying. It is expected that more specific and advanced instruction in this department will be provided at an early date.

**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 in silviculture 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**

**Freshman Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Term</strong></td>
<td></td>
</tr>
<tr>
<td>Bl 1, General Biology ..........</td>
<td>2</td>
</tr>
<tr>
<td>Bl 2, Lab. Biology † 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>
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<tr>
<td>Md 1, Drawing † 4 .............</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>
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<tr>
<td></td>
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</tr>
<tr>
<td><strong>Spring Term</strong></td>
<td></td>
</tr>
<tr>
<td>Bl 21, General Botany ..........</td>
<td>1</td>
</tr>
<tr>
<td>Bl 22, Lab. Botany † 4 ........</td>
<td>2</td>
</tr>
<tr>
<td>Eh 1, Public Speaking ..........</td>
<td>1</td>
</tr>
<tr>
<td>Eh 4, English Composition .....</td>
<td>3</td>
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<tr>
<td>Md 2, Mechanical Drawing † 4 2</td>
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<tr>
<td>Ms 4, Trigonometry ............</td>
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<tr>
<td>Ms 6a, Anal. Geometry ..........</td>
<td>5</td>
</tr>
<tr>
<td>Modern Language ...............</td>
<td>2</td>
</tr>
<tr>
<td>Mt 1, Military † 5 ............</td>
<td>2½</td>
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<td><strong>Total</strong></td>
<td>19½</td>
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<tr>
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130
The University of Maine

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Fall Term</th>
<th>Spring Term</th>
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<tbody>
<tr>
<td>Bl 23, General Botany † 4</td>
<td>Bl 27, Plant Physiology 1</td>
</tr>
<tr>
<td>Ch 1, General Chemistry</td>
<td>Bl 28, Lab. Physiology † 2</td>
</tr>
<tr>
<td>Ch 3, Lab. Chemistry † 2</td>
<td>Ch 1, Plane Surveying 2</td>
</tr>
<tr>
<td>Eh 2, English Comp.</td>
<td>Ch 2, Plane Surveying Field Work † 6</td>
</tr>
<tr>
<td>Bl 38, Forest Botany</td>
<td>Ch 2, Chemistry 3</td>
</tr>
<tr>
<td>Bl 39, Lab. Forest Botany † 4</td>
<td>Ch 4, Lab. Chemistry † 2</td>
</tr>
<tr>
<td>Modern Language</td>
<td>Eh 2, English Comp. 1</td>
</tr>
<tr>
<td>Ps 12, Physics</td>
<td>Bl 40, Forest Botany 2</td>
</tr>
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</table>

| Total Credits | 18 |

| Modern Language | 3 |

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Fall Term</th>
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<tbody>
<tr>
<td>Fy 6, Silviculture</td>
<td>Fy 7, Silviculture 2</td>
</tr>
<tr>
<td>Fy 8, Silviculture, Field Work † 4</td>
<td>Fy 9, Silviculture, Field Work † 4</td>
</tr>
<tr>
<td>Ag 1, Soils</td>
<td>Bl 7, Zoology 2</td>
</tr>
<tr>
<td>Ag 2, Soils † 2</td>
<td>Bl 8, Laboratory Zoology † 6</td>
</tr>
<tr>
<td>Bl 5, Zoology</td>
<td>Bl 9, Physiology 2</td>
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<td>Bl 6, Laboratory Zoology † 6</td>
<td>Bl 11, Entomology † 4</td>
</tr>
<tr>
<td>Bl 25, Plant Histology</td>
<td>Electives 5</td>
</tr>
<tr>
<td>Bl 26, Lab. Plant Histology † 4</td>
<td>Electives 5</td>
</tr>
</tbody>
</table>

| Total Credits | 20 |

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Fall Term</th>
<th>Spring Term</th>
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<tbody>
<tr>
<td>Fy 10, Forest Measurements... 1½</td>
<td>Fy 4, Forest Measurements... 1</td>
</tr>
<tr>
<td>Fy 11, Forest Measurements, Field Work † 4</td>
<td>Fy 5, Forest Measurements, Laboratory † 2</td>
</tr>
<tr>
<td>Fy 12, Lumbering 3½</td>
<td>Fy 13, Forest Management 1</td>
</tr>
<tr>
<td>Cv 2, Political Economy 5</td>
<td>Fy 14, Thesis † 10 5</td>
</tr>
<tr>
<td>Ce 5, Highway Engineering 1</td>
<td>Ch 13, Mineralogy 3</td>
</tr>
<tr>
<td>Electives 6</td>
<td>Electives 7</td>
</tr>
</tbody>
</table>

| Total Credits | 19 |

| Electives 7 | 18 |

| 131 | 131 |
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 receive the degree of Master of Science.
The University of Maine

COLLEGE OF PHARMACY

FACULTY OF INSTRUCTION

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

ALFRED BELLAMY AUBERT, M. S.
Professor of 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

JAMES STACY STEVENS, M. S.
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

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

WALTER STEVENS BROWN
Professor of Military Science and Tactics

MAX CARL GUENTHER LENTZ
Assistant Professor of Germanic Languages

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

HENRY MARTIN SHUTE, M. A.
Instructor in Romance Languages

MARSHALL BAXTER CUMMINGS, M. S.
Instructor in Biology

HARLEY RICHARD WILLARD, M. A.
Instructor in Mathematics

RAYMOND KURTZ MORLEY, M. A.
Instructor in Mathematics

MATTHEW HUME BEDFORD, Ph. D.
Instructor in Chemistry

WALTER EVERETT PRINCE, M. A.
Instructor in English

WILLIAM ROSS HAM, B. A.
Instructor in Physics

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

RALPH LOWE SEABURY, B. S.
Instructor in Biological and Agricultural Chemistry

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

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

FLORENCE BALENTINE, B. A.
Tutor in Biology

HENRY WALTER BEARCE, B. S.
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, makes it increasingly necessary to his success that he be not only a well trained man in the technical branches but an educated man in the broadest sense.

Instruction in pharmaceutical studies is given by means of lectures, recitations, and tests, supplemented by work in the laboratories of chemistry and pharmacy. It embraces qualitative, quantitative, and volumetric analysis, toxicology, bacteriology, prescriptions, the preparation of pharmaceutical compounds, and original investigations.

The library contains valuable reference literature in chemistry and pharmacy, and the best chemical and pharmaceutical journals.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Term</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Term</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Rm 3a, French*</td>
<td></td>
<td>3</td>
<td>Rm 3b, French</td>
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<td>Eh 1, Pub. Speaking</td>
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<tr>
<td>Eh 3, Eng. Composition</td>
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<td>Eh 4, Eng. Composition</td>
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</tr>
<tr>
<td>Ch 1, Gen. Chemistry</td>
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<td>2</td>
<td>Ch 2, General Chemistry</td>
<td></td>
<td>3</td>
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</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Fall Term</th>
<th>Spring Term</th>
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</thead>
<tbody>
<tr>
<td>Rm 4a, French</td>
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<tr>
<td>Ps 12, Gen. Physics</td>
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<td>Eh 2, Eng. Composition</td>
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</tr>
<tr>
<td>Ch 5, Inorg. Chemistry</td>
<td>2</td>
<td></td>
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<tr>
<td>Ch 14, Qual. Anal.</td>
<td>4</td>
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</tr>
<tr>
<td>Bl 1, Gen. Biol.</td>
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<tr>
<td>Bl 2, Lab. Biol.</td>
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<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Fall Term</th>
<th>Spring Term</th>
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<tbody>
<tr>
<td>Ch 7, Org. Chemistry</td>
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<tr>
<td>Ch 16, Quant. Anal.</td>
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</tr>
<tr>
<td>Ch 30, Biol. Chem.</td>
<td>5</td>
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<tr>
<td>Bl 25, Plant Hist.</td>
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<tr>
<td>Bl 26, Lab. Plant Hist.</td>
<td>2</td>
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<tr>
<td>Pm 5, Inorg. Pharmacog.</td>
<td>2</td>
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</tr>
<tr>
<td>Elective</td>
<td>3</td>
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<td></td>
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<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Fall Term</th>
<th>Spring Term</th>
</tr>
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<tbody>
<tr>
<td>Pm 2, Pharmacy</td>
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</tr>
<tr>
<td>Pm 3, Lab. Pharm.</td>
<td>6</td>
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<tr>
<td>Pm 7, Mater. Med.</td>
<td>3</td>
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<tr>
<td>Elective</td>
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</tr>
<tr>
<td></td>
<td>18</td>
<td>19½</td>
</tr>
</tbody>
</table>
The University of Maine

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.

Requirements for Graduation

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 1, Gen. Chemistry</td>
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<tr>
<td>Ch 14, Qual. Anal. † 16</td>
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<td>Pm 1, Pharm. Chem</td>
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<tr>
<td>Pm 5, Inorg. Pharmacog</td>
<td>2</td>
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</tr>
<tr>
<td>Military † 5</td>
<td>2½</td>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>Spring Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Ch 2, Gen. Chemistry</td>
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<tr>
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<td>Ch 19, Vol. Anal. (9 w.)</td>
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<td>Ch 31, Chem. Eq</td>
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<tr>
<td>Bl 21, Gen. Botany</td>
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<tr>
<td>Bl 22, Lab. Botany † 4</td>
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<td>Pm 6, Org. Pharmacog</td>
<td>4</td>
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<tr>
<td>Military † 5</td>
<td>2½</td>
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</tbody>
</table>

19½

136
Students who complete this course in a satisfactory manner receive the degree of Pharmaceutical Chemist.
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, LL. D.
Lecturer on Roman Law and Probate Law

ANDREW PETERS WISWELL, LL. D.
Lecturer on Evidence

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 occupies rooms in the Exchange Building, at the corner of State and Exchange streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily sessions of the Municipal Court. The law library contains about 3,000 volumes, including the 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
The University of Maine

Decisions, American Reports, American State Reports, the Complete Reporter System, the Lawyers' Reports Annotated, all the Law Encyclopaedias, and a considerable number of text-books.

**Admission**

Graduates of any college or satisfactory preparatory school are admitted to the 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.

**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
The University of Maine

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.

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.

140
COURSES OF INSTRUCTION


Lw 2. BANKRUPTCY.—Lectures. Two hours a week. Winter term. General Hamlin.


Lw 4. CARRIERS.—A continuation of course 3. Two hours a week. Winter term. Professor Simpson.

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 Walz.

Lw 8. CONSTITUTIONAL LAW.—Boyd's Cases. Two hours a week. Winter term. Mr. ———.

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.

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 18. Equity Pleading.—Lectures. *Two hours a week.* Spring term. Mr. Clark.

LW 19. Evidence.—Thayer’s Cases. *Four hours a week.* Fall term. Professor Simpson.


LW 27. History of Law.—Lectures. *One hour a week.* Fall term. Mr. ———.

Lw 29. **International Law.**—Lectures. *One hour a week.* Fall term. Mr. ———.

Lw 30. **Maine Practice.**—Lectures. *One hour a week.* Spring term. Mr. Martin.

Lw 31. **Medico-Legal Relations.**—Lectures. *About six hours.* Spring term. Mr. Southard.

Lw 32. **Municipal Corporations.**—Smith's Cases. *Three hours a week.* Winter term. **Professor Walz.**

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 37. **Private Corporations.**—A continuation of course 36. *Three hours a week.* Winter term. **Professor Simpson.**

Lw 38. **Probate Law and Practice.**—Lectures. *About ten hours.* Spring term. Mr. Justice Emery.

Lw 39. **Real Property.**—Tiedeman on Real Property. *Four hours a week.* Fall term. **Professor Simpson.**

Lw 40. **Real Property.**—A continuation of course 39. *Three hours a week.* Winter term. **Professor Simpson.**

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. 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 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. Justice Emery.

Lw 51. Wills.—Chaplin's Cases. *Three hours a week.* Spring term. Mr. Worster.
The University of Maine

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

WELTON MARKS MUNSON, Ph. D.  
Pomology

GILBERT MOTTIER GOWELL, M. S.  
Poultry Investigations

EDITH MARION PATCH, B. S.  
Entomology

HERMAN HERBERT HANSON, M. S.  
Chemistry

WARNER JACKSON MORSE, M. S.  
Vegetable Pathology

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

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.
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 1906-7 is about $30,000; $15,000 of which comes from the Hatch fund, $7,000 from the Adams fund, $2,000 from State appropriations for food, 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."

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 also occupies space in the horticultural building and barns of the University and enjoys all needed facilities of the College of Agriculture. 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, 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, 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. The cost of the fertilizer inspection is borne by a brand tax, that of the feeding stuff, food 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 225 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 Station has a large correspondence, chiefly with practical farmers in the State. Careful attention is given to all inquiries and it is believed that in this way the Station is increasingly helpful to the farmer.
The Commencement exercises of 1906 were as follows:
Sunday, June 10: Baccalaureate Address, by Reverend Frank Channing Haddock, D. D.
Monday, June 11: University Convocation, including reports of departments and student enterprises, and the awarding of prizes; Class Day Exercises; President’s Reception.
Tuesday, June 12: Phi Kappa Phi Initiation; Meeting of the Alumni Association; Receptions by the various fraternities; Alumni Luncheon; Alumnae Luncheon; Business Meeting of the Alumni Association.
Wednesday, June 13: Commencement Exercises; Commencement Dinner; Commencement Concert.

DEGREES CONFERRED
(The major subjects are stated in parenthesis.)

College of Agriculture
Roy Sawtelle Bacon, B. S.............................................Sidney
Frederic Hall Harlow, B. S............................................Gorham
Thomas Harold Reynolds, B. S.....................................Eastport
Alton Willard Richardson, B. S.....................................Bethel
Edward Arthur Stanford, B. S........................................Lovell Center

College of Arts and Sciences
Henry Walter Bearce, B. S. (Physics)..............................Hebron
Richard Arthur Bolt, B. A. (Civics)..............................St. John, N. B.
John Meikle Brockie, B. A. (Philosophy).......................Old Town
Everett Dana Brown, B. A. (History)..............................South Paris
Joanna Carver Colcord, B. S. (Chemistry)......................Searsport
Guerric Gaspard DeColigny, B. S. (Chemistry)................Springfield, Mass.
Dayton James Edwards, B. S. (Biology)..........................Oxford
Joseph Galland, B. S. (Modern Languages).....................Biddeford
Carolyn Adelle Hodgdon, B. A. (Greek).........................Hampden Corner
Gertrude May Jones, B. S. (Biology)..............................Corinna
Merton Rooks Lovett, B. S. (History)............................Beverly, Mass.
Estelle Perry, B. S. (History)........................................Penobscot
Frederick Johnson Simmons, B. A. (Civics)...................Morrill
Frederick Dean Southard, B. S. (English)......................Dorchester, Mass.
Mary Frances Webber, B. A. (Latin)..............................Bangor
Albert Ames Whitmore, B. S. (History)..........................Fryeburg
The University of Maine

College of Pharmacy

Harry Leon Gordon, Ph. C.................................................Augusta
Leon Herbert Marr, Ph. C.................................................Farmington

College of Technology

Herbert Lester Abbott, B. S. in Civil Engineering...........Bucksport
Frank Arthur Banks, B. S. in Civil Engineering............Biddeford
Winfield Dexter Bearce, B. S. in Civil Engineering.......Auburn
Arthur Guy Bennett, B. S. in Electrical Engineering.....Paris
Walter Horace Burke, B. S. in Electrical Engineering.....Kennebunk
Alfred Jared Butterworth, B. S. in Civil Engineering..Southbridge, Mass.
Charles William Campbell, B. S. in Civil Engineering.....Ellsworth
Gotthard Wilhelm Carlson, B. S. in Electrical Engineering..Bethel
Sidney Cassey, B. S. in Mechanical Engineering.............Lynn, Mass..
Howard Lincoln Churchill, B. S. in Forestry................Buckfield
Lincoln Crowell, B. S. in Forestry.................................Dorchester, Mass.
Charles Ellsworth Currier, B. S. in Electrical Engineering...Brewer
William Ray Dolbier, B. S. in Civil Engineering........Salem
Hallet Carroll Elliott, B. S. in Civil Engineering.........Patten
James William Elms, B. S. in Chemistry.......................Foxcroft
Harry Alvah Emery, B. S. in Civil Engineering............North Anson
Clinton Fairfield Forbes, B. S. in Electrical Engineering..Buckfield
Walter Oscar Frost, B. S. in Forestry.........................Rockland
Philip Holden Glover, B. S. in Civil Engineering........Harrington
Claude Albert Gray, B. S. in Mechanical Engineering......Bridgton
Wellington Prescott Hews, B. S. in Civil Engineering.....Ashland
George Herbert Hill, B. S. in Civil Engineering...........Saco
Lester Boynton Howard, B. S. in Electrical Engineering...Dover
Harold Shepherd Hoxie, B. S. in Civil Engineering.....Fairfield Center
Harvey Hamlin Hoxie, B. S. in Electrical Engineering.....Waterville
Caleb Hartwell Johnson, B. S. in Mechanical Engineering..Nahant, Mass.
Harold Lewis Karl, B. S. in Electrical Engineering........Rockland
Raymond Brown Kittredge, B. S. in Civil Engineering.....Beverly, Mass.
Ralph Edwin Lord, B. S. in Civil Engineering...............Bangor
Charles Libby Lang, B. S. in Electrical Engineering.......Harrison
William Lawrence McDermott, B. S. in Mechanical Engineering...

Biddeford

Leroy Cleveland Nichols, B. S. in Electrical Engineering.....Saco
Robert Franklin Olds, B. S. in Civil Engineering..........Lewiston
George Stuart Owen, B. S. in Civil Engineering...........Portland
The University of Maine

Roy Hiram Porter, B. S. in Mechanical Engineering........South Paris
Charles Edward Prince, B. S. in Electrical Engineering........Kittery
Frank Radford Reed, Jr., B. S. in Civil Engineering......Rumford Falls
Earle Revere Richards, B. S. in Civil Engineering......New Gloucester
David Nathan Rogers, B. S. in Forestry.......................Patten
Harold Dockum Ross, B. S. in Civil Engineering...........Skowhegan
Edgar John Sawyer, B. S. in Civil Engineering...........Milbridge
Raphael Simmons Sherman, B. S. in Electrical Engineering...Rockland
John Percy Simmons, B. S. in Civil Engineering........Belfast
Ralph Seldon Smith, B. S. in Civil Engineering...........Old Town
Arthur Leonard Sparrow, B. S. in Mechanical Engineering,
        South Orleans, Mass.
Fred Oramel Stevens, B. S. in Civil Engineering...........Milan, N. H.
Frank Carroll Stewart, B. S. in Electrical Engineering.....Farmington
George Roger Tarbox, B. S. in Mechanical Engineering........Machias
James Gordon Wallace, B. S. in Civil Engineering........Portland
Arthur Pettingill Weymouth, B. S. in Mechanical Engineering....Dexter

College of Law

Gerry Lynn Brooks, LL. B...........................................................Upton
Winfield Scott Brown, LL. B. (B. A., Bates College, 1895) ......Dexter
Elmer John Burnham, LL. B..........................................................Kittery
James Adams Colby, LL. B.........................................................Lynn, Mass.
Charles Patrick Conners, LL. B. (B. A., Bowdoin College, 1903)....Bangor
Carl Cotton, LL. B. (B. A., Colby Collge, 1900) ......................Bangor
George Albert Cowan, LL. B......................................................Hampden
James Albert Donnelly, LL. B..............................................Houlton
Frederick Eugene Doyle, LL. B. (B. A., Holy Cross College, 1901),
        Ellsworth
Oscar Hall Dunbar, LL. B.........................................................Jonesport
Lewis Edwin Fox, LL. B...............................................................Lovell
Moses Harry Harris, LL. B..........................................................Auburn
Percy Albert Hasty, LL. B..........................................................Bangor
Joseph Alphonse Laliberte, LL. B..............................Fort Kent
Eben Frank Littlefield, LL. B.....................................................Brooks
George William Pike, LL. B.....................................................Lisbon, N. H.
William Richard Roix, LL. B............................................Bucksport
Lucius Black Swett, LL. B.......................................................West Hollis
ADVANCED DEGREES

MASTER OF ARTS

Helen Veazie Gerrity, B. A. (Mount Holyoke College, 1905) (Mathematics) .................................................. Bangor
Horace Bray Haskell, B. Ph. (Taylor University, 1900) (English), Orono
William Linscot Waldron, B. A. (Colby College, 1897) (French), Waterville

MASTER OF SCIENCE

Herman Herbert Hanson, B. S. (Pennsylvania State College, 1902), (Chemistry) .................................................. Orono
Fred Carlton Mitchell, B. S. (1900), (Physics)......................... Camden

ELECTRICAL ENGINEER

Enoch Joseph Bartlett, B. S. in Electrical Engineering (1902), Hartford, Conn.
Howard Ashburn Smith, B. S. in Electrical Engineering (1903), Lynn, Mass.

MASTER OF LAWS

Ansel Harrison Bridges, LL. B. (1904) ......................... Old Town
Clarence Bertram Hight, LL. B. (1904) ......................... Dexter
George Henry Worster, LL. B. (1905) ......................... Bangor

PRIZES AWARDED

The various prizes were awarded last year as follows:
The Kidder Scholarship, to Clarence McLellan Weston, Madison.
The Western Alumni Association Scholarship, to Bertrand French Brann, Bangor.
The New York Alumni Association Scholarship, to Bertrand French Brann, Bangor.
The Boston Alumni Association Scholarship, to Marion Balentine, Orono.
The Junior Exhibition Prize, to Lucius Dwelley Barrows, Foxcroft.
The Sophomore Declamation Prize, to Raymond Fellows, Bucksport.
The Franklin Danforth Prize, to Edward Arthur Stanford, Lovell Center.
The Walter Balentine Prize, to Joseph Farrington Merrill, Auburn, and Willis Flye Washburn, China.

The Kennebec County Prize, to Harold Lewis Karl, Rockland, and Raphael Simmons Sherman, Rockland.

The Pittsburg Alumni Association Scholarship, to Howard Carlton Stetson, Auburn.
The University of Maine

APPOINTMENTS

Speakers at the Junior Exhibition, June, 1906

Speakers at the Sophomore Prize Declamation Contest, December, 1905
Chester Arthur Brownell, Newport, R. I.; Mildred Chase, Bluehill; Raymond Fellows, Bucksport; Henry LeRoy Miner, Haverhill, Mass.; Perley Fiske Skofield, Houlton; Oscar Franklin Smith, Calais; Raymond Judson Smith, Skowhegan; Earle Nelson Vickery, Pittsfield.

Members of the Phi Kappa Phi
Herbert Lester Abbott, Bucksport; Frank Arthur Banks, Biddeford; Gotthard Wilhelm Carlson, Bethel; Joanna Carver Colcord, Searsport; Philip Holden Glover, Harrington; George Herbert Hill, Saco; Moses Harry Harris, Auburn; Carolyn Adelle Hodgdon, Hampden Corner; Raymond Brown Kittredge, Beverly, Mass.; Leroy Cleveland Nichols, Saco; Earle Revere Richards, New Gloucester; Lucius Black Swett, West Hollis.

Seniors Receiving General Honors
Herbert Lester Abbott, Bucksport; Gotthard Wilhelm Carlson, Bethel; Joanna Carver Colcord, Searsport; George Herbert Hill, Saco; Carolyn Adelle Hodgdon, Hampden Corner; Raymond Brown Kittredge, Beverly, Mass.; Leroy Cleveland Nichols, Saco.

From the College of Law
Lucius Black Swett, West Hollis.

Seniors Receiving Special Honors
Joanna Carver Colcord, Searsport, in Biological Chemistry. Carolyn Adelle Hodgdon, Hampden Corner, in Greek.

154
The University of Maine

HONORABLE MENTION IN THE COLLEGE OF LAW
Elmer John Burnham, Kittery.
Moses Harry Harris, Auburn.

CERTIFICATES IN THE SCHOOL COURSE IN AGRICULTURE
Stephen Edward Abbott, Bethel.
Frank Harold Bickford, North Dixmont.
Ransom Clayton Packard, Brockton, Mass.

REPORTED TO THE SECRETARY OF WAR FOR PUBLICATION IN THE NEXT
UNITED STATES ARMY REGISTER AS THE THREE MOST DISTINGUISHED
STUDENTS IN THE MILITARY DEPARTMENT
James Gordon Wallace, Portland.
Harry Alvah Emery, North Anson.
John Percy Simmons, Belfast.
The University of Maine

CATALOG OF STUDENTS


GRADUATE STUDENTS

Balentine, Florence, B. A., Bl. University of Maine, 1905

Colcord, Joanna Carver, B. S., Ch. University of Maine, 1906

Dow, Henry Kingman, B. A., Gm. University of Maine, 1903

Dunmore, Jennie Elizabeth, B. S. Simmons College, 1906

Edwards, Dayton James, B. S., Bl. University of Maine, 1906

Fowles, Raymond Arthur, B. A., Pl. Greenville University of Maine, 1905

Godfrey, Ethel, B. L., Eh. Smith College, 1903

Jones, Gertrude May, B. S., Bl. University of Maine, 1906

Moots, Elmer Earl, B. C. E., Ms. Highland Park College, 1906

Seabury, Ralph Lowe, B. S., Ch. University of Maine, 1905

Smith, Edward Henry, B. M. E., Ch. University of Maine, 1900

Simmons, Frederick Johnson, B. A., Hy. Charleston University of Maine, 1905

Smith, Nathan Rideout, B. A., Pl. Bates College, 1895

Swain, Pearl Clayton, B. A., Eh. University of Maine, 1899

Whittier, Arthur Craig, B. S., Ch. University of Maine, 1905

Oro, College St.

Searsport, Main St.

Old Town, Old Town

Haverhill, Mass., College St.

Oxford, Main St.

Greenville, Greenville

Bangor, Bangor

Corinna, Corinna

Des Moines, Iowa, Stillwater

Yarmouth, Main St.

East Sullivan, East Sullivan

Charleston, Charleston

Main St.


Farmington, College St.
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<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>Location</th>
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<tbody>
<tr>
<td>Aiken, Edith Nora, Lt.</td>
<td></td>
<td>Mt. Vernon House</td>
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<tr>
<td>Alexander, Wm. Wesley</td>
<td></td>
<td>Ω Λ Τ House</td>
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<tr>
<td>Bannister</td>
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<td>Austin, Alton Arthur,</td>
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<td>Main St.</td>
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<td>K Σ House</td>
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<td>Bates, John Thaxter,</td>
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<td>College St.</td>
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<tr>
<td>Me.</td>
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<td>16 Main St.</td>
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<td>Bean, Ernest Daniel,</td>
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<td>Σ Α Ε House</td>
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<td>Ce.</td>
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<td>302 Oak Hall</td>
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<tr>
<td>Beane, Perry Ashley,</td>
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<td>Σ Α Ε House</td>
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<td>Ce.</td>
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<td>301 Oak Hall</td>
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<td>Bird, Sidney Morse, 2nd,</td>
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<td>B Θ Π House</td>
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<td>Ag.</td>
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<td>Α Τ Ω House</td>
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<td>Black, Walter Wright,</td>
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<td>Φ Γ Δ House</td>
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<td>Brann, Benjamin Erwin,</td>
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<td>Ce.</td>
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<td>Φ Γ Δ House</td>
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<td>Brawn, Elwin Dresser,</td>
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<td>Me.</td>
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<td>Π Ο Ω House</td>
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<tr>
<td>Brown, Amon Benjamin,</td>
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The University of Maine

Hodgkins, Alden E., Ms.
Hodgkins, Lincoln Hall, Ce.
Holbrook, Franklin Pratt, Ce.
Hooper, Elmer Guy, Ce.
Hosmer, Fred Pote, Ch.
Hutchins, Wilbury Owen, Ce.
Judkins, Ernest LaRoy, Ee.
Keirstead, Horton Wilmot, Ce.
Lambe, Emerson Peavy, Ee.
Lambe, Reginald Robert, Me.
Lekberg, Carl Henry, Me.
Lisherness, Ernest, Ce.
Lord, Arthur Russell, Ce.
MacDonald, Karl, Me.
Macomber, Carlton Hambly, Me.
Mackenzie, Herman Ellis, Me.
Maddock, Frank Everett, Ce.
Malloy, Thomas Angelo, Ce.
Mansfield, Mildred Charlotte, Lt.
Martin, Charles Henry, Ce.
Matthieu, Joseph Clarence, Ee.
Merrill, Joseph Farrington, Ch.
Newman, Max Gibson, Ee.
Nickels, Herbert Lewis, Ce.
Orne, Sidney Baxter, Me.
Packard, Harry Ellsworth, Ce.
Pennell, Alcot Johnson, Ee.
Perry, Donald Cushman, Ee.
Perry, Tedcastle Bigelow, Ee.
Philbrook, Earle Walter, Ce.
Pierce, Stephen Franklin, Ce.
Purington, Heber Penn, Ce.
Quint, Raymon Alton, Ee.
Read, Carroll Arthur, Ee.
Reed, Lowell Jacob, Ee.
Ridge, Reginald, Ce.
Rockwood, Noel Mumford, Me.
Rollins, Deane Whittier, Cv.
Round, Albert Prentiss, Ce.
St. Onge, Walter James, Ee.

Damariscotta Mills
Bunker Hill
Brooks
West Lynn, Mass.
Rockland
Guilford
Orland
Skowhegan
Oakland
Pembroke
Calais
Calais
North New Portland
Ipswich, Mass.
Belfast
Portsmouth, R. I.
West Jovesport
Bluhill
Lewiston
Orono
Fort Fairfield
Farmington
Auburn
Fryeburg
Cherryfield
Boothbay Harbor
East Winthrop
Melrose Highlands, Mass.
Island Falls
Island Falls
Milan, N. H.
Windsorville
Jay
North Berwick
Stillwater
Berlin, N. H.
Portland
Calais
Farmington Falls
Bridgton
Dover

4 Forest St.
Φ K Σ House
101 Oak Hall
N. Main St.
Α Τ Ω House
203 Oak Hall
Oak Hall
109 Oak Hall
Σ X House
Park St.
209 Oak Hall
Σ Α Ε House
Σ X House
Φ Τ Δ House
101 Oak Hall
B Θ II House
303 Oak Hall
Old Town
203 Oak Hall
Κ Σ House
Bennoch St.
Φ Τ Δ House
212 Oak Hall
Main St.
Κ Σ House
6 Main St.
Myrtle St.
Σ Α Ε House
Oak Hall
16 Main St.
16 Main St.
B Θ II House
Θ E House
Main St.
B Θ II House
Stillwater
Φ Κ Σ House
Κ Σ House
North Main St.
Φ Τ Δ House
107 Oak Hall
Ω Α Τ House
The University of Maine

Sampson, Arthur Haskell, Ch.
Schoppe, William Freeman, Ag.
Stetson, Everett Halliday, Ce.
Stetson, Howard Carlton, Ce.
Stevens, Albert William, Ee.
Stone, William Elmer, Me.
Swift, Porter LaForrest, Me.
Talbot, Richard Foster, Ag.
Tate, Edith Mabel, Eh.
Tebbets, Charles Bucknam, Ce.
Toner, Ernest Leroy, Fy.
Totman, Arnold Washington, Cv.
Washburn, Willis Flye, Ch.
Weld, Moses Waldo, Me.
Williams, Benjamin Franklin, Ce.
Wilson, Elmer Josiah, Ee.
Wilson, Jesse Davis, B. A., Ce.
Witham, Lester Clyde, Ce.
Wyman, Abel Percival, Ce.
York, Verne Jerome, Ee.

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<tr>
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<tr>
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<td>Mt. Vernon House</td>
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<td>China</td>
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<td>North Islesboro</td>
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JUNIORS

Bean, Anna Coffin, Ch.
Bean, Chester Howe, Ce.
Beedle, Arthur Lawrence, Ee.
Blair, Arthur Adolphus, B. D., 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.
Cram, Edward Winslow, Cv.
Cummings, Robert Lincoln, Me.
Dixon, Leon Snell, Ce.
Dow, Owen Oscar, Cv.
Draper, Clifford Lester, Ee.
Durgin, Albert Guy, Ch.
Ellis, Harold Milton, Eh.
Emery, Francis Philip, Me.
Estabrooke, Elizabeth Read, Eh.

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The University of Maine

Farnsworth, James Pitt, Ee.
Fellows, Raymond, Cv.
Fenn, Charles Henry, Ce.
Files, Frederick Whitney, Ee.
Fisher, Roy Haynes, Ce.
Fogler, Ben Baker, Me.
French, Cecil Sumner, Ee.
French, Frank Danforth, Fy.
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.
Mitchell, Robie Lawton, Cv.
Morrison, James Joseph, Ee.
Morton, Fred Constine, Ee.
Perkins, Howard Lewis, Ee.
Potter, Robert Eaton, Ce.
Rich, Harry Herbert, Ee.
Richardson, Roy Henry, Ag.
Robinson, Philip Increase, Ee.
Sargent, Leslie Wheeler, Me.
Sawyer, William Robert, Cv.

Milbridge
Bucksport
Portland
Portland
Pepperell, Mass.
Skowhegan
Kingfield
Jonesport
Yarmouth
Leeds Junction
Caribou
Sherman Mills
Winterport
Old Town
Bath

West Boylston, Mass.
Berlin Mills, N. H.
Rockland, Mass.
North Waterford
Old Town
Sebec
Somersworth, N. H.
West Paris
Poquonock, Conn.
Millville, Mass.
Bangor
Auburn
North Bridgton
Westbrook
Haverhill, Mass.
West Newfield
Pembroke
South Windham
Augusta
Bath
Bangor
Old Town
Waterville
South Brewer

Ø E House
Φ τ Δ House
Σ X House
Θ E House
College St.
Σ X House
Φ K Σ House
Κ Σ House
Φ Κ Σ House
Φ τ Δ House
Ω Δ T House
Old Town
Φ τ Δ House
Φ τ Δ House
Β Θ Π House
207 Oak Hall
Main St.
Milbridge
3 Middle St.
23 Peters St.
K Σ House
205 Oak Hall
Bennoch St.
Σ Λ E House
Α τ Ω House
Α Τ Ω House
Φ τ Δ House
Park St.
207 Oak Hall
210 Oak Hall
Σ X House
K Σ House
305 Oak Hall
Φ Κ Σ House
Β Θ Π House
Κ Σ House
The University of Maine

Skofield, Perley Fiske, Ag.
Smith, Herman Brackett, Me.
Smith, Oscar Franklin, Ce.
Smith, Raymond Judson, Fy.
Steward, Robert Kent, Ce.
Stuart, George Albert, Ag.
Sturtevant, Merle Alton, Ps.
Thomas, Searle Fowler, Ee.
Trask, Warren Dudley, Ce.
Turner, Richard Clinton, Ag.
Vickery, Earle Nelson, Ee.
Wakefield, Sylvia Serena, Ml.
Weston, Clarence McLellan, Ce.
Wilbur, Walter Edmund, Ee.
Wood, Louis Carl, Ce.

Houlton
  Saco
  Calais
  Skowhegan
  Skowhegan
  Red Beach
  Hebron
  Lincoln
  Augusta
  Portland
  Pittsfield
  Saco
  Madison
  Pembroke
  Berlin, N. H.

Campus
  Φ Κ Σ House
  Α Τ Ω House
  Φ Γ Δ House
  Φ Γ Δ House
  Α Τ Ω House
  Σ Α Ε House
  Φ Κ Σ House
  Κ Σ House
  30 Main St
  Σ Χ House
  Mt. Vernon House
  Bennoch St.
  Park St.
  Σ Χ House

SOPHOMORES

Albee, Guy Edwin, Ms.
Austin, Thomas Dillon, Ag.
Barber, Clarence Wallace, Ag.
Barron, George Frank, Ee.
Bennet, DaCosta FitzMaurice, Cv., Bibber, Ray Odin, Ce.
Black, William Milgate, Ce.
Blake, Harold Edwin, Pm.
Bowman, Harold Melville, Me.
Brann, Bertrand French, Ch.
Brewer, Ernest Malcolm, Ee.
Brimmer, George Hollis, Fy.
Brown, Wallace Francis, Ce.
Bruce, Herbert Putnam, Ce.
Carlisle, George Thomas, Fy.
Carter, Warren Alfred, Ch.
Chandler, Bernard Albert, Fy.
Chase, Florence Polleys, Hy.
Clement, James Donald, Ch.
Clemons, Samnel Wadsworth, Me.
Cleveland, Charles Calvin, Ag.
Conner, Warren Edward, Ce.
Cony, Daniel William, Ce.
Corson, Preston Llewellyn, Ee.
Cragin, Philbur Leroy, Ee.

Machias
  Farmington
  Woodfords
  Orono
  Lubec
  Eastport
  Belfast
  Saco
  Salmon Falls, N. H.
  Bangor
  Bar Harbor
  Brewer
  Yarmouth
  Lynn, Mass.
  North Edgecomb
  Nobleboro
  New Gloucester
  Baring
  Belfast
  Hiram
  Skowhegan
  Auburn
  Augusta
  Wilton
  Woodfords

Oak Hall
  A T Ω House
  Commons
  Forest St.
  Θ E House
  7 Main St.
  103 Oak Hall
  North Main St.
  Ω Α T House
  B Θ Π House
  Main St.
  Θ E House
  16 Main St.
  Main St.
  Φ Κ Σ House
  Mt. Vernon House
  103 Oak Hall
  A T Ω House
  18 Main St.
  Φ Κ Σ House
  B Θ Π House
  21 Middle St.
  63 Mill St.
Cram, Frederick Sutherland, Ce.
Davis, Cyrus Hersey, Ee.
Eddy, Harold Frederick, Ee.
Edgecomb, Leslie, Ee.
Emerson, Walter Lee, Ce.
Estabrooke, Carl Bertrand, Eh.
Estey, Chester Arthur, Ee.
Farnsworth, Alice Belle, Gm.
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, Cv.
Gilbert, William Henry, Me.
Haggett, Harold Daniel, Ce.
Hall, Bertram Mellor, Me.
Hall, Earle Wilmer, Ee.
Ham, Philip Winthrop, Ce.
Hamil, Dunton, Ce.
Hamor, George Howard, Ce.
Harmon, Ralph Chase, Ee.
Harvey, Florence Evelyn, Ml.
Harvey, Walter Ora, Me.
Harvey, Willis Lake, Ce.
Henry, Ralph Morton, Ee.
Higgins, Harrison Parker, Me.
Hinkle, Edward Benjamin, Eh.
Hinkle, Willard Merrill, Ee.
Hodgins, Robert Lyle, Me.
Holton, Carl Russell, Ce.
Jackson, Ralph Lysander, Ce.
Jewett, John Nelson, Ce.
Johnson, Howard Rich, Ee.
Jones, Laurence Vivian, Hy.
Keating, Edmund Bernard, Ce.
Keith, Ballard Freeze, Lt.
Kimball, Winfield Alfred, Fy.
Kingham, Charles Wesley, Ee.
Knight, Frederick Daniel, Ee.

Brunswick
Woodfords
Bangor
Kennebunk
Orono
Orono
Lisbon Falls
West Sullivan
Mt. Vernon House
Guilford
Dorchester, Mass.
Bangor
West Rockport
Skowhegan
Effingham Falls, N. H.
East Machias
Bangor
So. Glastonbury, Ct.
Bath
Lawrence, Mass.
Farmington
Livermore Falls
Orono
Bar Harbor
Woodfords
Orono
Kenduskeag
Orono
Cumberland Mills
Somerville, Mass.
Hinckley
West Jonesport
Hampden
Boothbay Harbor
Jefferson
Cherryfield
So. Portland
Bangor
Salem, Mass.
Old Town
Norway
Yarmouthville
Limerick

Σ A E House
Campus
Bangor
North Main St.
B Θ Π House
Main St.
35 Mill St.

Old Town
Φ Γ Δ House
Ω Δ Τ House
Σ Χ House

109 Oak Hall

Main St.

Φ Κ Σ House

Main St.

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Main St.
The University of Maine

Knight, Mary Warren, Hy.
Littlefield, Joseph Philip, Ee.
Littlefield, Philip Henry, Me.
Lockyer, Scott Sylvester, Fy.
Lynch, John Philip, Ph.
McArthur, Chase, Gm.
Marsh, Harold Pinkham, Fy.
Mason, Jesse Ham, Ch.
Mayo, Clarence Arthur, Ee.
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, Ee.
Morrell, Harry Edwin, Ce.
Morrison, Robley Howe, Ch.
Morton, Edward Watts, Ag.
Nash, Henry Leighton, Ee.
Nason, Charles Jewell, P. M.
Paine, Charles Brooks, Ce.
Parker, Horace Albion, Ce.
Patterson, Alfred Bassett, Me.
Penney, Paul Stinchfield, Ce.
Pettegrow, Herbert Tracy, Ce.
Pike, Lewis Freeman, Fy.
Plumly, Clinton Alley, Ee.
Pray, Elmer Onsville, Ce.
Prescott, Glenn Carleton, Ce.
Randall, James William, Ce.
Ray, Vinton Royal, Ce.
Rich, Harold Arthur, Me.
Richardson, Frank Cummings, Ce.
Richardson, Irene Clara, Rm.
Ringwall, Frederick Algot, Ch.
Roberts, Benjamin Lewis, Fy.
Rollins, Kenneth Albert, Cv.
Scales, James Grindle, Ch.
Shatney, Thomas Franklin, Fy.
Shaw, Christine Myrtle, Lt.
Shaw, Cora Mae, Ms.

Deer Isle    Mt. Vernon House
Ogunquit     A T Ω House
Portland     Myrtle St.
Eustis       A T Ω House
South Berwick Park St.
Milltown     B Θ Π House
Bangor       Σ X House
Beverly, Mass. Φ Κ Σ House
Hampden Corner Oak Hall
Bluchill     Bangor
Portland     303 Oak Hall
South Berwick B Θ Π House
Bangor       206 Oak Hall
Ellsworth    312 Oak Hall
Readfield    Σ A E House
Sangerville  Σ A E House
Lewiston     Φ Γ Δ House
Rumford Falls Main St.
Kennebunk    307 Oak Hall
Cherryfield  307 Oak Hall
Hampden      Park St.
Eastport     Pine St.
Livermore Falls K Σ House
Winslow      Φ Κ Σ House
Augusta      Α T Ω House
East Machias 308 Oak Hall
Milton, N. H. Ω Λ Τ House
Lincoln      36 Main St.
Kittery      B Θ Π House
Bradford, Mass. Σ A E House
Freeport     Φ Γ Δ House
Sabattus     Mt. Vernon House
Bangor       K Σ House
Jefferson    6 E House
Old Town      28 Pine St.
Bangor       Park St.
Bangor       Park St.
Farmington Falls
    Orono
     Orono
The University of Maine

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>House</th>
</tr>
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<tr>
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<td>Rockland</td>
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<td>Smith, Allen G., Me.</td>
<td>Jonesport</td>
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<td>Bennoch St.</td>
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<td>Patten</td>
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FRESHMEN

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<td>Greenville</td>
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<td>Bird, Roy James</td>
<td>South Paris</td>
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<td>Blanchard, Ralph Childs</td>
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164
The University of Maine

Chase, Walter Melville
Cleveland, Ralph Joseph
Clifford, Harold Linscott
Cole, Harold
Cole, Raymond Thurber
Collins, John Lambert
Congdon, William Everett
Conlogue, Frederick Willis
Cook, Horace Jewett
Crabtree, Alfred Evans
Crockter, Ralph Willis
Cruickshank, Robert Bacon
Cummings, Chester Goodman
Cutter, Benjamin Clifford
Danforth, Hugh Nagles
Davis, Fred Dumont
Davis, Ralph Cushman
Davis, Walter Francis
Dennison, Harry Phillip
Dow, Frank Seavey
Dwinal, Olaf Windsor
Dyer, Howard Kenneth
Dyer, John Raymond
Eaton, James Murchie
Everett, Jasper Willard
Fassett, Malcolm Edward
Fox, Kent Richard
Gardner, Albert Kinsman
Gardner, Leroy Whittier
Gifford, George Endicott
Goodrich, George Percy
Goodrich, Merton Taylor
Goodwin, Alexander Willard
Gould, Ralph Wadlin
Graham, Charles Liguori
Hall, Clifton Allison
Hall, Louise Frances
Hamlin, Herbert Edwin
Hardy, Simeon Joseph
Harmon, W. Warren
Harward, Francis Eaton
Hassett, Harry Charles

Bangor
Skowhegan
Orono
Paris Hill
South Portland
Gardiner
Woodfords
Houlton
Waterville
Hancock
Bangor
Akron, O.
Vanceboro
Westbrook
Augusta
Brooks
Auburn
Milo Junction
Bridgetown, N. S.
Sangerville
Auburn
Calais
Truro, Mass.
Princeton
Oxford
Portland
Bangor
Rockland
Dennysville
Salem, Mass.
Cornish
Bingham
Vanceboro
Belfast
Brooklyn, N. Y.
Bremer
Belfast
Mount Vernon House
Orono
East Hampton
Old Orchard
Brunswick
Rumford Falls

Bangor
Main St.
Hill St.
Main St.
Park St.
Main St.
Myrtle St.

108 Oak Hall

A T Ω House

K Σ House

Bangor

B Θ Π House

10 Pine St.

North Main St.

A T Ω House

Myrtle St.

K Σ House

Old Town

Orono House

206 Oak Hall

Mill St.

Σ X House

104 Oak Hall

Φ Γ Δ House

Mill St.

Φ Γ Δ House

B Θ Π House

Mill St.

10 Pine St.

Mill St.

Mill St.

North Main St.

10 Pine St.

College St.

107 Oak Hall

Φ Κ Σ House

Main St.

Ω Α Τ House

Ω Α Τ House

4 Myrtle St.

Park St.
Hayes, Howard Wadlin
Hicks, Weston Milliken
Hobbs, Ralph Everett
Holmes, Ralph Maynard
Huntington, Frances Willard
Hurd, Arthur Edgar
Israelson, Philip Mosses
Jellison, Rupert A.
Johnson, Chester Cleveland
Jones, Roy Chandler
Jordan, Edith Luella
Jordan, George King
Jordan, Harvey Herbert
Kane, John Nolan
Keen, Lewis Albert
Ketchum, Charles Clayton
Kinney, Fay Delancy
Kyes, Herman Winslow
Lamb, Ernest
Leary, Arthur Joseph
Leonard, Paul Cyprian
Libby, Albert Edwin
Lindley, John Turner
Littlefield, Roby Perkins
Logan, Orwell
Lowell, Elmer Blaine
Maddox, Austin Louis
Merrill, Dimon Emery
Merrill, Walter Scott
Moore, Arthur Scudder
Murphy, Cyrus William, Jr.
Norton, Raymond Pratt
Nucci, James Francis
Olsen, William Curtis
Parker, Clarence Douglas
Parsons, Charles William
Parsons, Arthur Hudson
Pettey, Franklin William
Philbrook, John Neal
Phinney, Chester Squire
Pickup, Herbert Wilfred
Porter, Charles Augustus Cushman

Deering
Portland, R. F. D. No. 4
Lynn, Mass.
Ellsworth
Lynn, Mass.
Lansing, Mich.
Rumford Falls
Bar Harbor
Portland
Gardiner
Old Town
Westbrook
Waltham
Frankfort
South Paris
Ashland
Dexter
Ipswich, Mass.
Utica, N. Y.
Somersworth, N. H.
Frankfort
Portland
South Paris
Ogunquit
Brockton, Mass.
West Farmington
Ellsworth
Alfred
Skowhegan
West Lynn, Mass.
West Kennebunk
Dover
Brooklyn, N. Y.
Bronxville, N. Y.
Portland
East Machias
Lynn, Mass.
Fall River, Mass.
Woodfords
Pawtucket, R. I.
Ipswich, Mass.
Bangor

Myrtle St.
Pine St.
Θ E House
14 Myrtle St.
Mt. Vernon House
Campus
College St.
Ω A T House
Σ A E House
63 Mill St.
63 Mill St.
14 Myrtle St.
10 Pine St.
112 Oak Hall
108 Oak Hall
Θ E House
312 Oak Hall
B Θ II House
304 Oak Hall
Myrtle St.
Pine St.
Φ Κ Σ House
Α T Ω House
Park St.
No. Main St.
14 Myrtle St.
Park St.
College St.
Φ Κ Σ House
Park St.
Ω A T House
107 Oak Hall
B Θ II House
Θ E House
Pine St.
Θ E House
College St.
Myrtle St.
306 Oak Hall
209 Oak Hall
Φ Κ Σ House
The University of Maine

Pratt, Charles Oland
Redman, Ralph Woodbury
Reed, Geneva Alice
Reed, Marshall Everett
Robinson, John Tyler
Rose, Joseph George
Rowe, Sylvanus Charles
Royal, Harold Merton
Russell, Edward Giddings
Sawyer, Frank Sleeper
Sawyer, Nathan Howard
Schierloh, August Herman
Sevrens, Oliver Fiske
Simonton, Philip Downing
Smith, Charles French
Snow, Edward Notley
Springer, George Edwin
Stanley, Winthrop Hamor
Stanwood, George Sidney
Staples, Joseph Henry
Stevens, Roy Farnum
Stickney, Charles Edwin
Stinchfield, Otis Decker
Stobie, John William
Stoddard, Winfred Eugene
Stover, Isaac Maxwell
Sweetser, Herman Pittee
Tobey, Ray Wentworth
Tomlinson, Nora
Travis, James Irving
Tucker, Charles Henry
Tuell, Edwin Emerson
Wadsworth, Francis George
Wadsworth, George Sabine
Wallace, George Alexander
Webster, George Albert
Weeks, Harold Everett
Welsh, Charles Leland
Wentworth, George Jacobs
Wentworth, William Hiram
Wheeler, Stanley Mathews
White, Myra Isabel
Revere, Mass.
Corinna
Oro
Roxbury
Harvard, Mass.
Brooklyn, N. Y.
Yarmouth
Hermon
Eastport
Sabattus
Cape Elizabeth
Brooklyn, N. Y.
North Woburn, Mass.
Yarmouthville
Skowhegan
Skowhegan
Portland
Hull's Cove
Rumford Falls
Bangor
Westbrook
Portland
Danforth
Waterville
Guilford
Erwinna, Pa.
Cumberland Center
Fairfield
Brantford, Ont.
Machiasport
Kittery Depot
Augusta
Sanford
Portland
Portland
Farmington
Augusta
Lynn, Mass.
Kennebunk Beach
Somersworth, N. H.
South Paris
Oro

0 E House
104 Oak Hall
College St.
College St.
Pine St.
110 Oak Hall
Forest St.
Bennoch St.
Σ A E House
Mill St.
69 Mill St.
Σ A E House
Forest St.
10 Pine St.
10 Pine St.
Θ E House
Θ A T House
Δ T Ω House
210 Oak Hall
Φ Γ Δ House
Φ Γ Δ House
Σ A E House
Δ T Ω House
Θ E House
Campus
Σ A E House
69 Mill St.
Main St.
Σ A E House
Δ T Ω House
B Θ II House
Main St.
Main St.
B Θ II House
North Main St.
Mill St.
K Σ House
Peters St.
Σ X House
Φ K Σ House
Mill St.
The University of Maine

**Wiley, Fred Everett**  
**Hartford, Ct.**  
35 Mill St.

**Winters, Amos Arthur**  
**Waterville**  
North Main St.

**Woods, Harry Morgan**  
**Orono**  
55 Main St.

**Workman, Thurlow Tracy**  
**Sullivan Harbor**  
Ω Α T House

### SHORT PHARMACY COURSE

#### SECOND YEAR

**Beal, Arthur Nathaniel**  
**Lisbon Falls**  
300 Oak Hall

**Butterfield, Carroll Curtis**  
**Dover**  
Θ Ε House

**Findlen, Thomas Miles**  
**Caribou**  
Oak Hall

**Riddle, Harry Colburn**  
**Monson**  
Α Τ Ω House

**Saunders, William Houston**  
**Deer Isle**  
Commans

**White, Frank Manly**  
**Vinalhaven**  
Φ Γ Δ House

#### FIRST YEAR

**Adams, Percy**  
**Annapolis, Md.**  
North Main St.

**Bartlett, Fred Ellward**  
**Westbrook**  
Θ Α Τ House

**Bradish, Howard Gilson**  
**Calais**  
Σ Λ E House

**Fulton, Ellwyn Mortimer**  
**Blaine**  
Σ X House

**Kerr, Edgar John**  
**Newport, R. I.**  
52 Main St.

**Morin, Theodule L.**  
**Fort Kent**  
Orono House

**Ormsby, William Herbert**  
**S. Portland, R. F. D. No. 8 Myrtle St.**  
Bennoch St.

**Ridlon, Myron Herbert**  
**Kesar Falls**  
North Main St.

**Sewall, Howard Newton**  
**York Village**  
Α Τ Ω House

**Ward, George Campbell**  
**Kennebunk**

### SPECIAL STUDENTS

**Anderson, William Lewis, Jr.**  
**Hartland**  
Φ Γ Δ House

**Berry, Albert Ivory**  
**Biddeford**  
208 Oak Hall

**Corning, Grover Trites**  
**Lynn, Mass.**  
Myrtle St.

**Crowell, Philip Holmes**  
**Bangor**  
Α Τ Ω House

**Cushman, Wesley George**  
**West Waterford, Vt.**  
Main St.

**Day, Lester Scott**  
**Wiscasset**  
Θ Ε House

**Deering, George Percy**  
**Winslow's Mills**  
Park St.

**Doolittle, Albert Whiting**  
**Hackensack, N. J.**  
Β Θ Η II House

**Drew, Percy Allen**  
**Orono**  
Pine St.

**Ellis, Harold**  
**Brewster, Mass.**  
106 Oak Hall

**Evans, George**  
**Bangor**  
Θ Ε House

**Farnham, Harry Lester**  
**Lynn, Mass.**  
Κ Σ House

**Farnham, Walter Elwood**  
**Canaan**  
Campus

**Fortier, Frank Eugene**  
**Turner Center**
The University of Maine

Hackett, Joseph James  
Hall, Harold Worcester  
Hughes, Melvine Russell  
Hutchinson, Arthur Nash  
Jones, Albert Heald  
Knight, Mattie Grover  
Knowlton, Daniel Fred  
LaMarche, George Everett  
Leland, Clarence Roy  
Leslie, Edward Warren  
McKenney, Blake  
MacLean, Daniel Wallace  
Merriam, Frank Edmund  
Metcalfe, Donald Clifton  
Mitchell, Sanford Stevens  
Paine, Sherman Rogers  
Peres, Henry Palacio  
Pickering, Winthrop Hamilton  
Potter, Benjamin Lawrence  
Richards, Grover Cleveland  
Rogers, Frederick Drummond  
Scales, Eugene Mudgett  
Shaw, Hugh Earle  
Smith, George Lewis  
Taylor, Russell Shepard  
Todd, Arthur Lee  
Tremaine, Arthur Edward  
Walker, Harold Edward  
Whipple, LeRoy Francis  
Wildes, Gordon Lunt  
Wilkins, Lyle Law  
Wood, Frank Foster  
Wright, Harold Williams  
Zatlin, Louis Edward

Newport, R. I.  
Augusta  
Bath  
Cherryfield  
Union  
Deer Isle  
Lowell, Mass.  
Oroko  
Mechanic Falls  
Millinocket  
Bangor  
Eastport  
Skowhegan  
Augusta  
Cherryfield  
Eastport  
Lima, Peru  
New Haven, Ct.  
Litchfield  
Portland  
Richmond  
Guilford  
Greenville  
Long Cove  
Skowhegan  
Georgetown  
Halifax, N. S.  
Sabattus  
Pawtucket, R. I.  
Skowhegan  
Portland  
Old Town  
Reading, Mass.  
St. Louis, Mo.

School of Agriculture

SECOND YEAR

Colley, Albert Chester
Soule, Malcolm Montgomery

DENMARK
SOUTH FREEPORT

FIRST YEAR

Comins, Frederick Granville
Cook, Alfred Searles

BROOKLYN, N. Y.
PRESQUE ISLE

304 Oak Hall
B Θ Π House
North Water St.
Σ X House
A T Ω House
Mt. Vernon House
1 Bennoch St.
Oak St.
North Main St.
College St.
Main St.
B Θ Π House
Main St.
Φ Γ ∆ House
105 Oak Hall
110 Oak Hall
36 Main St.
Mill St.
Σ X House
College St.
K Σ House
Σ X House
Main St.
Pine St.
309 Oak Hall
Mill St.
K Σ House
K Σ House
Myrtle St.
Old Town
Myrtle St.
Mill St.
Mill St.

169
The University of Maine

Cook, Walter Arthur  
Fogg, George Phillips  
Lindsay, Alvin Harold  
McKay, Christopher Adle  
Ramsdell, Harvey Lincoln  
Twitchell, Bernard Franklin  

*Hull's Cove  
*Carroll  
*Calais  
*Addison  
*South Paris  
Park St.  
63 Mill St.  
35 Mill St.  
North Main St.  
63 Mill St.  
112 Oak Hall

**SUMMER SESSION**

(Abbreviations indicate subjects taken.)

<table>
<thead>
<tr>
<th>Name</th>
<th>Town</th>
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<tr>
<td>Albee, Guy Edwin</td>
<td>Machias</td>
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<td>Rm., Hy., Eh., Gm.</td>
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<td>Ch.</td>
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<td>Ms.</td>
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<td>Austin, Thomas Dillon</td>
<td>Farmington</td>
<td>Eh., Bl.</td>
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<td>Ms.</td>
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<td>Biddeford</td>
<td>Ms.</td>
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<td>East Sullivan</td>
<td>Rm., Ps.</td>
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<td>Skowhegan</td>
<td>Eh., Ms.</td>
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<td>Ch.</td>
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<td>Estabrooke, Marion Corthell</td>
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<td>Rm.</td>
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<td>Fowler, Abbie May</td>
<td>Sangerville</td>
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<td>Galger, George Homer</td>
<td>Boston, Mass.</td>
<td>Pl.</td>
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<td>Gellerson, Rex Carleton</td>
<td>Fort Fairfield</td>
<td>Pl.</td>
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<td>Bangor</td>
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<td>Bl., Eh.</td>
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<td>Eh., Pl., Hy.</td>
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<td>Orono</td>
<td>Lt., Rm., Eh.</td>
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<td>Berwick</td>
<td>Eh., Hy., Ps.</td>
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<td>Merriam, Charles Bailey</td>
<td>Prout's Neck</td>
<td>Ms., Ch.</td>
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<td>Cherryfield</td>
<td>Ps., Hy., Bl.</td>
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<td>Otis</td>
<td>Lt.</td>
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<td>Otis</td>
<td>Eh., Ms.</td>
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<td>Mosher, Frances Belle</td>
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</tbody>
</table>
The University of Maine

O'Brien, Harriet Ella
Parsons, Gertrude Mary
Peabody, Ellen Holway
Perkins, Lena Georgie
Pierce, Louise Norris, B. A.

Wellesley, 1900

Reed, Geneva Alice
Reed, Philip Page
Rideout, Whitney John
Sampson, Arthur Haskell
Shaw, Angie Edwina
Shaw, Christine Myrtle
Shaw, Cora Mae
Smith, Edward Henry, B. M. E.

University of Maine, 1900

Smolinsky, Samuel Wolff
Stanley, Winthrop Hamor
Staples, Joseph Henry
Steinbach, Edward Sargent
Stevens, Albert William
Stevens, Neil Everett
Stover, Isaac Maxwell
Stowell, Clarence Warner
Tooker, Thomas Cox, B. A.

Colby College, 1896

Varney, Ada Susan
Ware, Amy Estell
Wass, Clifton Eunis
White, Harry Alfred
Wood, Frank Foster

Thomaston
North Newcastle
Machias
Oxford
Old Town
Oroono
Oroono
Oroono
Oroono
Oroono
New York, N. Y.
Hull's Cove
Bangor
Orange, N. J.
Belfast
Auburn
Ervinna, Pa.
Providence, R. I.
Cherryfield

The COLLEGE OF LAW

GRADUATE STUDENTS

Blanchard, Benjamin Willis, LL. B.
University of Maine, 1904

Bowker, Edgar Marshall, LL. B.
George Washington University, 1902

Bridges, Corril Ellsworth, LL. B.
Albany Law School, 1887

Brown, Leon Gilman Carleton, LL. B.
University of Maine, 1905

Brewer
Bangor
Sangerville
Lynn, Mass.
Old Town

Eh.
Gm., Hy., Eh.
Rm., Gm., Pl.
Eh., Rm., Pl.
Rm., Ps., Eh.

118 Congress St.

Whitefield, N. H.
Charlestown, Mass.

Ps., Ch.
Ch.
Ms., Rh.
Ps., Ch.
Ch.
Rm., Ms.
Ch.
Eh.

Ps., Ch.
Ch.
Ps., Ch.
Ch.
Ps., Ch.
Ch.
Rm., Ms.
Ch.
Eh.

Ps., Ch.
Ch.
Ps., Ch.
Ch.
Ps., Ch.
Ch.
Rm., Ms.
Ch.
Eh.
The University of Maine

Clough, George Edwin, LL. B. University of Maine, 1904 Monson, Mass.

Colby, James Adams, LL. B. University of Maine, 1906 Lynn, Mass.

Cook, Harold Elijah, LL. B. University of Maine, 1900 Waterville


Dunn, Patrick Henry, LL. B. University of Maine, 1902 Bangor Bass Building

Folsom LeRoy Rowell, B. S. University of Maine, 1895 South Norridgewock

Foster, Walter Herbert, LL. B. University of Maine, 1905 Dorchester, Mass.


Graton, Claude Dewing, LL. B. University of Maine, 1900 Biddeford

Heard, Carlos Clayton, B. A. Yale University, 1896

Johnson, William Asbury, LL. B. University of Maine, 1905 Milo

Kenniston, Hartley Garfield, LL. B. University of Maine, 1902 Bangor 38 Court St.

Libby, Arthur Stephen, B. A. University of Maine, 1902 Spartanburg, S. C.


Lord, Harry, LL. B. University of Maine, 1902 Bangor 82 Cumberland St.

Merrill, John Bryant, LL. B. University of Maine, 1904 Bangor 18 Jefferson St.

Noble, Ernest Eugene, B. A., LL. B. Portland University of Maine, 1903

Perkins, DeForest Henry, Ph. B., M. A., LL. B. Skowhegan University of Maine, 1900, 1905. Illinois College of Law, 1906


172
The University of Maine

Reid, Charles Hickson, LL. B. 
University of Maine, 1903

Robinson, Curvile Charles, LL. B. 
Flatbush, N. Y.

Robinson, William Henry, LL. B. 
University of Maine, 1902

Selkirk, Robert William, LL. B. 
Boston, Mass.

Violette, Nil Louis, B. A., LL. B. 
Van Buren

Waterhouse, William Henry, LL. B. 
Old Town

University of Maine, 1900

SENIO FS

Andrews, Percy Melville, B. A. 
Portland 25 State St.

Archibald, Bernard, B. A. 
Houlton Y. M. C. A. Bldg.

Buckley, John 
West Gouldsboro 71 Summer St.

Campbell, James DeWitt 
Stafford Springs, Conn. 49 High St.

Clark, Jerome Borden 
Washington, D. C. 14 Franklin St.

DeWolfe, Robert William 
West Gouldsboro

Dudley, John Perley 
Portland 239 Essex St.

Finnigan, James Patrick 
Mapleton 49 High St.

Keegan, John Joseph 
Bangor 12 Summer St.

Moody, John Franklin, Jr., B. A. 
Lubec 49 High St.

Monroe, Edward Roy 
Portland 74 Third St.

O’Halloran, Thomas Henry 
Auburn 25 State St.

Perry, Lawrence Swift 
Marlboro, Mass Y. M. C. A. Bldg.

JUNIORS

Blossom, Charles Albert Gooding 
New Bedford, Mass. [Beta Theta Pi, Orono

Burgess, Frank Beaumont 
Sangerville Y. M. C. A. Bldg.

Davidson, Edward Burleigh 
York Village Y. M. C. A. Bldg.

Driscoll, George Alexander 
Springfield, Mass., 24 Ohio St.

173
The University of Maine

Gardner, Silas Henry
Brockton, Mass.
Beta Theta Pi House, Orono

Godfrey, Edward Rawson
Bowdoin College, 1899

Greeley, Harry Burton

Hamilton, Willard Packard, B. A.
Bates College, 1895

Holman, William Harrison

Leary, Thomas Edward, B. S.
University of Maine, 1904

Maxwell, James Davidson

Nolan, Harry McDonald

Ridlon, Horace Denver

Seavey, Ernest Linwood

Skillin, Carroll Brown

Waldron, William Linscott, B. A.
Colby College, 1899

Hampden

Hampden

Dixfield
East Hampden

Bangor
Haverhill, Mass.
Bangor

Stetson
Boston, Mass.
North Yarmouth
Waterville

Anderson, Albert Edward
Portland

Brackett, Harry Mortimer
Berwick

Bridgham, Edward William
Bridgton

Elder, Harry Robertson
Chicopee Falls, Mass.

Ellis, Henry Allan
Yarmouth, Mass.

Emery, James Edgar
Bangor

Emery, Oscar Harris
Bar Harbor

Fitz-Randolph, Reginald
Boulder, Colo.

Boston University, College and Law School

Fraser, William Clayton
Taunton, Mass.

Goss, Harold Isaac
Berwick

Hammond, Nathaniel M.
Wilton

Kiernan, James Francis
Wareham, Mass.

Brown University

Mason, Walter Lee Fogg
Brooks

May, Seth
Auburn

University of Maine

Morrison, Roy
Saco

Paul, Seneca Arthur
Garland

Peters, Andrew John Wadsworth
Bangor

Boston College of Physicians and Surgeons

174
### The University of Maine

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<td>Riggs, Verne Lester</td>
<td>Livermore Falls</td>
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<td>Thwing, Francis Drake</td>
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<td>Toole, Christopher, Jr.</td>
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### SPECIAL STUDENTS

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<td>Farnsworth, Omar Libby</td>
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<td>Huntley, Ernest Devenport</td>
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<td>Lewis, Charles Goodell</td>
<td>New Bedford, Mass.</td>
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<td>Pendleton, Harold Desmond</td>
<td>Islesboro</td>
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### SHORT WINTER COURSES IN AGRICULTURE.

<table>
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<tr>
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<td>Woodward, Lester Mason</td>
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175
## GENERAL SUMMARY

### Faculty

<table>
<thead>
<tr>
<th>Position</th>
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<td>Professors</td>
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<td>Instructors</td>
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<td>Tutors</td>
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<td>Assistants and Other Officers</td>
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**Total** 90

### College of Arts and Sciences
35

### College of Agriculture
29

### College of Technology
38

### College of Pharmacy
27

### College of Law
14

### Agricultural Experiment Station
17

*Members of the general faculty are included in the faculties of the separate colleges when they give courses that are required therein.*

### Students

<table>
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<th>Category</th>
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<td>Special Students</td>
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**The University of Maine**

School of Agriculture, Second year  
First year  
Summer Term  
Short Agricultural  
College of Law, Graduate Students  
Seniors  
Juniors  
First year  
Special Students  
Duplicated  
Total  

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<tr>
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The University of Maine

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<td>Peru, S. A.</td>
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Total: 687

**Classification by Colleges**

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Total: 687
## INDEX.

<table>
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<tbody>
<tr>
<td>Absence from examinations</td>
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# The University of Maine

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<td>Battalion, ......................... 91</td>
<td>Agricultural, ..................... 113</td>
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<td>Agronomy, ......................... 114</td>
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<td>Animal Industry, ................. 114</td>
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<td>Chemical, .......................... 120</td>
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<td>Civil Engineering, ............... 123</td>
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<tr>
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<td>Classical, .......................... 102</td>
</tr>
<tr>
<td>Botany, .............................. 55, 103</td>
<td>Electrical Engineering, .......... 128</td>
</tr>
<tr>
<td>Buildings and equipment .......... 19</td>
<td>Forestry, ............................ 130</td>
</tr>
<tr>
<td>Bulletins of the experiment station, ................. 148</td>
<td>Horticultural, ..................... 114</td>
</tr>
<tr>
<td>Calendar, ........................... 3</td>
<td>Law, ................................. 140</td>
</tr>
<tr>
<td>Catalog, annual, ................. 27</td>
<td>Mechanical Engineering, .......... 125</td>
</tr>
<tr>
<td>Certificate, admission by, ...... 39</td>
<td>Mining Engineering, ............. 130</td>
</tr>
<tr>
<td>Certificate board, ............... 41</td>
<td>Pharmacy, .......................... 91, 134</td>
</tr>
<tr>
<td>Certificates, in agriculture, ...... 116</td>
<td>Scientific, ........................ 102</td>
</tr>
<tr>
<td>Chemical course, ................. 120</td>
<td>Short Pharmacy, ................. 136</td>
</tr>
<tr>
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<td>Special, ........................... 40</td>
</tr>
<tr>
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<td>Dairy building, .................... 22</td>
</tr>
<tr>
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<td>Dairying, winter course, .......... 117</td>
</tr>
<tr>
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<td>Declamations, ..................... 69</td>
</tr>
<tr>
<td>Civics, .............................. 61</td>
<td>sophomore prize, ................... 38, 69</td>
</tr>
<tr>
<td>Classical course, ................. 102</td>
<td>Degrees, ............................ 33</td>
</tr>
<tr>
<td>Coburn Hall, ....................... 19</td>
<td>advanced, .......................... 34</td>
</tr>
<tr>
<td>Commencement, exercises of, 1905, .......... 149</td>
<td>Degrees conferred, 1906 .......... 149</td>
</tr>
<tr>
<td>list of speakers, 1905, .......... 154</td>
<td>Departments of instruction, .... 49</td>
</tr>
<tr>
<td>parts, ............................... 32</td>
<td>Deposit, ............................ 36</td>
</tr>
<tr>
<td>Committees of the faculty, ...... 14</td>
<td>Dormitories, ....................... 36</td>
</tr>
<tr>
<td>Correspondence courses, .......... 118</td>
<td>Drawing, ............................ 88</td>
</tr>
<tr>
<td>Courses of study: ........................</td>
<td>Drill, hall, ........................ 30</td>
</tr>
<tr>
<td>military, ........................... 29, 90</td>
<td></td>
</tr>
</tbody>
</table>
The University of Maine

<table>
<thead>
<tr>
<th>PAGE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics, ........................................ 64</td>
<td>Fees, laboratory, .......................... 35</td>
</tr>
<tr>
<td>Education, .......................................... 65</td>
<td>Fernald Hall, .............................. 19</td>
</tr>
<tr>
<td>Electrical engineering, .......................... 66</td>
<td>Forestry, ................................... 73</td>
</tr>
<tr>
<td>course, .......................................... 128</td>
<td>.............................. 130</td>
</tr>
<tr>
<td>Endowment of the University, ..................... 18</td>
<td>Fraternity houses, .......................... 23</td>
</tr>
<tr>
<td>English, ............................................ 69, 104</td>
<td>French, ..................................... 95, 105</td>
</tr>
<tr>
<td>Entomology, ........................................ 54</td>
<td>German, ..................................... 74, 105</td>
</tr>
<tr>
<td>Entrance, dates of examinations, ............... 40</td>
<td>Graduation, requirements for, ............ 98</td>
</tr>
<tr>
<td>examinations, .................................... 40</td>
<td>Greek, ...................................... 75</td>
</tr>
<tr>
<td>requirements, ................................. 41</td>
<td>preparatory courses, ....................... 77</td>
</tr>
<tr>
<td>Essays, ............................................ 70</td>
<td>sculpture, .................................. 76</td>
</tr>
<tr>
<td>Establishment of the University, ............... 17</td>
<td>Gymnasium, .................................. 30</td>
</tr>
<tr>
<td>Examinations, arrearage, ......................... 31</td>
<td>History, .................................... 78, 106</td>
</tr>
<tr>
<td>entrance, ....................................... 40</td>
<td>plant, ....................................... 55</td>
</tr>
<tr>
<td>rules, with regard to, .......................... 31</td>
<td>History, .................................... 78, 106</td>
</tr>
<tr>
<td>Excuses, ......................................... 31</td>
<td>Holmes Hall, ................................ 21</td>
</tr>
<tr>
<td>Expenses of students, .......................... 34, 110, 140</td>
<td>Honorary society, .......................... 27</td>
</tr>
<tr>
<td>Faculty, University, ............................ 9</td>
<td>Honors, ..................................... 32</td>
</tr>
<tr>
<td>Agriculture, ..................................... 112</td>
<td>conferred, 1906, .......................... 164</td>
</tr>
<tr>
<td>Arts and Sciences, ............................... 100</td>
<td>Horticultural, building, .................. 22</td>
</tr>
<tr>
<td>Classification, ................................. 176</td>
<td>course, ..................................... 114</td>
</tr>
<tr>
<td>Experiment Station, .............................. 146</td>
<td>Horticulture, ............................... 80, 114</td>
</tr>
<tr>
<td>Law, ................................................ 138</td>
<td>special course in, .......................... 116</td>
</tr>
<tr>
<td>Pharmacy, ....................................... 133</td>
<td>Income of the University, ................. 18</td>
</tr>
<tr>
<td>Summer term, ................................... 100</td>
<td>Infirmary, .................................. 24</td>
</tr>
<tr>
<td>Technology, ..................................... 119</td>
<td>International law, .......................... 64</td>
</tr>
<tr>
<td>Farm buildings, ................................. 23</td>
<td>Italian, ...................................... 97</td>
</tr>
</tbody>
</table>

181
<table>
<thead>
<tr>
<th>Junior exhibition</th>
<th>38</th>
<th>PAGE</th>
<th>Military, drill:</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>speakers, 1906</td>
<td>154</td>
<td></td>
<td>instruction</td>
<td>29</td>
</tr>
<tr>
<td>Kidder scholarship</td>
<td>37</td>
<td></td>
<td>science, courses in</td>
<td>90</td>
</tr>
<tr>
<td>Kittredge loan fund</td>
<td>37</td>
<td></td>
<td>science, requirements in</td>
<td>29</td>
</tr>
<tr>
<td>Laboratory charges</td>
<td>35</td>
<td></td>
<td>Military uniform</td>
<td>29</td>
</tr>
<tr>
<td>Latin</td>
<td>81, 106</td>
<td>PAGE</td>
<td>Mining Engineering Course,</td>
<td>130</td>
</tr>
<tr>
<td>Law, college of</td>
<td>138</td>
<td></td>
<td>Mt. Vernon House</td>
<td>23</td>
</tr>
<tr>
<td>admission</td>
<td>139</td>
<td></td>
<td>Museum</td>
<td>25, 99</td>
</tr>
<tr>
<td>advisory board</td>
<td>5</td>
<td></td>
<td>Nature study</td>
<td>107</td>
</tr>
<tr>
<td>courses</td>
<td>141</td>
<td></td>
<td>Oak Hall</td>
<td>19</td>
</tr>
<tr>
<td>degrees</td>
<td>140</td>
<td></td>
<td>Observatory</td>
<td>20, 109</td>
</tr>
<tr>
<td>expenses</td>
<td>140</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Law, college of:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>faculty</td>
<td>138</td>
<td></td>
<td>Organization of the University,</td>
<td>98</td>
</tr>
<tr>
<td>methods of instruction</td>
<td>139</td>
<td></td>
<td>Organizations,</td>
<td>26</td>
</tr>
<tr>
<td>Library</td>
<td>21, 24, 109</td>
<td>PAGE</td>
<td>Pedagogy</td>
<td>65, 108</td>
</tr>
<tr>
<td>Literati</td>
<td>27</td>
<td></td>
<td>Pharmacy, college of</td>
<td>133</td>
</tr>
<tr>
<td>Loans</td>
<td>37</td>
<td></td>
<td>course</td>
<td>91</td>
</tr>
<tr>
<td>Logic</td>
<td>93</td>
<td></td>
<td>faculty</td>
<td>133</td>
</tr>
<tr>
<td>Lord Hall</td>
<td>20</td>
<td></td>
<td>short course</td>
<td>136</td>
</tr>
<tr>
<td>Maine Bulletin</td>
<td>28</td>
<td></td>
<td>Phi Kappa Phi,</td>
<td>27</td>
</tr>
<tr>
<td>Mathematics</td>
<td>83, 106</td>
<td>PAGE</td>
<td>Phi Kappa Phi, members</td>
<td>154</td>
</tr>
<tr>
<td>Mechanical engineering</td>
<td>85</td>
<td></td>
<td>Phillological Club</td>
<td>26</td>
</tr>
<tr>
<td>course</td>
<td>125</td>
<td></td>
<td>Philosophy</td>
<td>93</td>
</tr>
<tr>
<td>Mechanics and Drawing</td>
<td>88</td>
<td></td>
<td>Physical training</td>
<td>30</td>
</tr>
<tr>
<td>Medicine, preparation for</td>
<td>102</td>
<td>PAGE</td>
<td>Physics</td>
<td>94, 109</td>
</tr>
<tr>
<td>Methodology</td>
<td>65</td>
<td></td>
<td>Physiology</td>
<td>53</td>
</tr>
<tr>
<td>Military, drill</td>
<td>29, 90</td>
<td>PAGE</td>
<td>Political Economy</td>
<td>64</td>
</tr>
</tbody>
</table>

182
## The University of Maine

<table>
<thead>
<tr>
<th>PAGE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students, catalog of,</td>
<td>156</td>
</tr>
<tr>
<td>classification of,</td>
<td>176</td>
</tr>
<tr>
<td>number of,</td>
<td>176</td>
</tr>
<tr>
<td>standing of,</td>
<td>31</td>
</tr>
<tr>
<td>Students, quota of,</td>
<td>31</td>
</tr>
<tr>
<td>Summer Term,</td>
<td>102</td>
</tr>
<tr>
<td>courses,</td>
<td>103</td>
</tr>
<tr>
<td>expenses,</td>
<td>110</td>
</tr>
<tr>
<td>faculty,</td>
<td>100</td>
</tr>
<tr>
<td>Surveying,</td>
<td>61</td>
</tr>
<tr>
<td>Technology, college of,</td>
<td>119</td>
</tr>
<tr>
<td>faculty,</td>
<td>119</td>
</tr>
<tr>
<td>Text-books,</td>
<td>35</td>
</tr>
<tr>
<td>Theology, preparation for,</td>
<td>102</td>
</tr>
<tr>
<td>Treasurer,</td>
<td>5</td>
</tr>
<tr>
<td>Trustees, board of,</td>
<td>5</td>
</tr>
<tr>
<td>executive committee of,</td>
<td>5</td>
</tr>
<tr>
<td>meetings of,</td>
<td>3, 4</td>
</tr>
<tr>
<td>Tuition, charges,</td>
<td>35</td>
</tr>
<tr>
<td>loans,</td>
<td>35</td>
</tr>
<tr>
<td>University, charter,</td>
<td>17</td>
</tr>
<tr>
<td>bulletins,</td>
<td>28</td>
</tr>
<tr>
<td>buildings and equipment,</td>
<td>19</td>
</tr>
<tr>
<td>circulars,</td>
<td>28</td>
</tr>
<tr>
<td>endowment,</td>
<td>18</td>
</tr>
<tr>
<td>establishment,</td>
<td>17</td>
</tr>
<tr>
<td>Guild,</td>
<td>26</td>
</tr>
<tr>
<td>location,</td>
<td>18</td>
</tr>
</tbody>
</table>

183
The University of Maine

<table>
<thead>
<tr>
<th>University:</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter courses</td>
<td>117</td>
</tr>
<tr>
<td>object</td>
<td>17</td>
</tr>
<tr>
<td>organization</td>
<td>98</td>
</tr>
<tr>
<td>Studies</td>
<td>28</td>
</tr>
<tr>
<td>Veterinary Science</td>
<td>54</td>
</tr>
<tr>
<td>Wingate Hall</td>
<td>19</td>
</tr>
<tr>
<td>Woodwork</td>
<td>85</td>
</tr>
<tr>
<td>Women, admission of</td>
<td>39</td>
</tr>
<tr>
<td>Worship, public</td>
<td>31, 109</td>
</tr>
<tr>
<td>Young Men's Christian Association</td>
<td>27, 31</td>
</tr>
<tr>
<td>Zoology</td>
<td>53</td>
</tr>
</tbody>
</table>