Catalog of the University of Maine, 1909-1910

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STILLWATER RIVER
# CALENDAR

## FALL SEMESTER, 1909

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 10-14 inclusive</td>
<td>Arrearage examinations.</td>
</tr>
<tr>
<td>September 10-14 inclusive</td>
<td>Entrance examinations.</td>
</tr>
<tr>
<td>September 15, Wednesday</td>
<td>Registration begins, 1:30 p.m.</td>
</tr>
<tr>
<td>September 16, Thursday</td>
<td>Fall semester begins, 1:30 p.m.</td>
</tr>
<tr>
<td>November 23, Tuesday</td>
<td>Meeting of the Board of Trustees.</td>
</tr>
<tr>
<td>November 24, Wednesday</td>
<td>Thanksgiving recess begins, 5:30 p.m.</td>
</tr>
<tr>
<td>November 29, Monday</td>
<td>Thanksgiving recess ends, 12 a.m.</td>
</tr>
<tr>
<td>December 3, Friday</td>
<td>Sophomore prize declamations.</td>
</tr>
<tr>
<td>December 22, Wednesday</td>
<td>Christmas recess begins, 5:30 p.m.</td>
</tr>
</tbody>
</table>

**1910**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2, Sunday</td>
<td>Christmas recess ends, 7:45 a.m.</td>
</tr>
<tr>
<td>January 28, Friday</td>
<td>Fall semester ends.</td>
</tr>
</tbody>
</table>

## SPRING SEMESTER, 1910

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 29, Saturday</td>
<td>Registration.</td>
</tr>
<tr>
<td>January 31, Monday</td>
<td>Spring semester begins.</td>
</tr>
<tr>
<td>February 22, Tuesday</td>
<td>Washington's birthday, a holiday.</td>
</tr>
<tr>
<td>March 28, Monday</td>
<td>Spring recess begins, 7:45 a.m.</td>
</tr>
<tr>
<td>April 4, Monday</td>
<td>Spring recess ends, 7:45 a.m.</td>
</tr>
<tr>
<td>April 19, Tuesday</td>
<td>Patriot's day, a holiday.</td>
</tr>
<tr>
<td>May 18, 12 M.-May 22</td>
<td>Junior week.</td>
</tr>
<tr>
<td>May 30, Monday</td>
<td>Memorial day, a holiday.</td>
</tr>
<tr>
<td>June 1-4</td>
<td>Entrance examinations.</td>
</tr>
<tr>
<td>June 1, Wednesday</td>
<td>8:00 a.m. Algebra.</td>
</tr>
<tr>
<td>June 2, Thursday</td>
<td>Elementary Algebra (Short Pharmacy).</td>
</tr>
<tr>
<td></td>
<td>10:00 a.m. Chemistry.</td>
</tr>
<tr>
<td></td>
<td>Botany.</td>
</tr>
<tr>
<td></td>
<td>1:30 p.m. Latin.</td>
</tr>
<tr>
<td></td>
<td>4:30 p.m. Roman History.</td>
</tr>
<tr>
<td></td>
<td>8:00 a.m Arithmetic (Short Pharmacy).</td>
</tr>
<tr>
<td></td>
<td>Solid Geometry.</td>
</tr>
<tr>
<td></td>
<td>10:00 a.m. French.</td>
</tr>
<tr>
<td></td>
<td>German.</td>
</tr>
<tr>
<td></td>
<td>Geography (Short Pharmacy).</td>
</tr>
<tr>
<td></td>
<td>1:30 p.m. English.</td>
</tr>
<tr>
<td></td>
<td>English Grammar (Short Pharmacy).</td>
</tr>
<tr>
<td></td>
<td>4:30 p.m. English History.</td>
</tr>
</tbody>
</table>
University of Maine

| June | 3, Friday, | 8.00 A.M. American History and Civil Government. American History (Short Pharmacy). Trigonometry. |
| June | 4, Saturday, | 10.00 A.M. Plane Geometry. 1.30 P.M. Physics. 8.00 A.M. Greek. Physiology. 10.00 A.M. Greek History. 1.30 P.M. Physiography. |
| June | 5, Sunday, | Baccalaureate address. |
| June | 6, Monday, | Convocation. Class day. Reception by the President. Meeting of the Board of Trustees. Receptions by the fraternities. Alumni luncheon; alumnae luncheon. Address before the Phi Kappa Phi Society. |
| June | 8, Wednesday, | Summer term begins. |
| June | 27, Monday, | Summer term ends. |
| August | 5, Friday, |

**FALL SEMESTER, 1910**

| September 16, 17, 19, 20, | Arrearage examinations. Entrance examinations. 8.00 A.M. Algebra. 10.00 A.M. Chemistry. Botany. 1.30 P.M. Latin. 4.30 P.M. Roman History. 8.00 A.M. Arithmetic (Short Pharmacy). Solid Geometry. |
| September 17, Saturday, | 10.00 A.M. Elementary Algebra (Short Pharmacy). |
### Calendar

September 17, Saturday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00</td>
<td>A. M. French.</td>
</tr>
<tr>
<td></td>
<td>German.</td>
</tr>
<tr>
<td></td>
<td>Geography (Short Pharmacy).</td>
</tr>
<tr>
<td>1.30</td>
<td>P. M. English.</td>
</tr>
<tr>
<td></td>
<td>English Grammar (Short Pharmacy).</td>
</tr>
<tr>
<td>4.30</td>
<td>P. M. English History.</td>
</tr>
<tr>
<td>8.00</td>
<td>A. M. American History and Civil Government.</td>
</tr>
<tr>
<td></td>
<td>American History (Short Pharmacy).</td>
</tr>
<tr>
<td></td>
<td>Trigonometry.</td>
</tr>
</tbody>
</table>

September 19, Monday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00</td>
<td>A. M. Plane Geometry.</td>
</tr>
<tr>
<td>1.30</td>
<td>P. M. Physics.</td>
</tr>
<tr>
<td>8.00</td>
<td>A. M. Greek.</td>
</tr>
<tr>
<td></td>
<td>Physiology.</td>
</tr>
<tr>
<td>10.00</td>
<td>A. M. Greek History.</td>
</tr>
<tr>
<td>1.30</td>
<td>P. M. Physiography.</td>
</tr>
</tbody>
</table>

September 20, Tuesday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.00</td>
<td>A. M. Registration begins, 1.30 P. M.</td>
</tr>
<tr>
<td>9.00</td>
<td>A. M. First chapel service, 11 A. M.</td>
</tr>
<tr>
<td></td>
<td>Meeting of the Board of Trustees.</td>
</tr>
<tr>
<td>5.30</td>
<td>P. M. Thanksgiving recess begins, 5.30 P. M.</td>
</tr>
<tr>
<td>12.00</td>
<td>M. Thanksgiving recess ends, 12 M.</td>
</tr>
<tr>
<td></td>
<td>Sophomore prize declamations.</td>
</tr>
<tr>
<td></td>
<td>Christmas recess begins, 5.30 P. M.</td>
</tr>
</tbody>
</table>

November 22, Thursday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00</td>
<td>A. M. American History (Short Pharmacy).</td>
</tr>
<tr>
<td>1.30</td>
<td>P. M. Physics.</td>
</tr>
<tr>
<td>8.00</td>
<td>A. M. Greek.</td>
</tr>
<tr>
<td></td>
<td>Physiology.</td>
</tr>
</tbody>
</table>

December 9, Friday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Christmas recess ends, 7.45 A. M.</td>
</tr>
</tbody>
</table>

December 22, Thursday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00</td>
<td>A. M. Christmas recess ends, 7.45 A. M.</td>
</tr>
</tbody>
</table>

January 2, Monday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall semester ends.</td>
</tr>
</tbody>
</table>

January 27, Friday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spring semester begins.</td>
</tr>
</tbody>
</table>

**SPRING SEMESTER, 1911**

January 28, Saturday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Registration.</td>
</tr>
</tbody>
</table>

January 30, Monday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Spring semester begins.</td>
</tr>
</tbody>
</table>

June 14, Wednesday,

<table>
<thead>
<tr>
<th>Time</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Commencement.</td>
</tr>
</tbody>
</table>
THE EXPERIMENT STATION COUNCIL

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Perley B. Palmer, B. C. E., 1896, Orono, Maine.................. 1914
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Albert H. Brown, B. S., 1880, Old Town, Maine.................. 1912
George H. Hamlin, C. E., 1873, Orono, Maine.................. 1912
Edward H. Kelley, B. S., 1890, Brewer, Maine........................ 1911
Paul D. Sargent, B. C. E., 1896, Augusta, Maine................. 1911
Charles S. Bickford, B. S., 1882, Belfast, Maine.................. 1910
George E. Thompson, B. C. E., 1891, Orono, Maine............. 1910

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Representing the College of Arts and Sciences
Will R. Howard, B. S., 1882, Farmington, N. H.................. 1912

Representing the College of Law
Freeland Jones, LL. B., 1900, Bangor, Maine.............................. 1911

Representing the College of Pharmacy
[Vacancy] ........................................................................ 1914

Representing the College of Technology
Nathan C. Grover, B. C. E., 1890, S. B., C. E., East Orange, N. J. 1913
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W. N. Patten, '91

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Treasurer, A. W. Stephens, '99, 75 Littleton Ave., Newark, N. J.
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H. S. Boardman, '95
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Second Vice-President, W. E. Belcher, '99, Box 166, Oak Park, Ill.
Secretary and Treasurer, C. C. Whittier, '99, 1121 The Rookery, Chicago, Ill.
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Vice-President, R. E. Bucknam, '07
Secretary and Treasurer, H. E. Cole, '02, 1023 Park Building, Pittsburg, Pa.
Executive Committee, G. F. Murphy, '00, Chairman, New Kensington, Pa.

The Schenectady Association
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Treasurer, Samuel J. Foster, '03, Oakland
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Dean of the University
FREMONT LINCOLN RUSSELL, B. S., V. S. 70 North Main Street
Professor of Bacteriology and Veterinary Science

* Arranged in groups in order of seniority of appointment.
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Dean of the College of Arts and Sciences

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Director of the Experiment Station

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Dean of the College of Law

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Director of the Museum

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Librarian

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Professor of History

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Professor of Electrical Engineering

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Professor of Education

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Plant Pathologist in the Experiment Station

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Professor of Economics and Sociology

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Entomologist in the Experiment Station

CHARLES PARTRIDGE WESTON, C. E., M. A. College Street
Professor of Mechanics and Drawing
RAYMOND PEARL, Ph. D.
Biologist in the Experiment Station
Forest Street

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Campus

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Professor of Railroad Engineering
53 Main Street

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24 Main Street

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College Street

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Professor of Chemistry
College Street

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Professor of German
Campus

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Professor of English Literature
College Street

WINDSOR PRATT DAGGETT, Ph. B.
Professor of Public Speaking
College Street

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Professor of Education (Summer Term)
New Brunswick, N. J.

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Professor of English (Summer Term)
Chester, Penn.

CHARLES ALBERT VARNUM, Lieutenant-Colonel, U. S. A.
Professor of Military Science and Tactics
College Street

FRANK MACY SURFACE, Ph. D.
Associate Biologist in the Experiment Station
Juniper Street

MINTIN ASBURY CHRYSLER, Ph. D.
Associate Professor of Botany
40 Main Street

HERMAN HERBERT HANSON, M. S.
Associate Chemist in the Experiment Station
Forest Street

CHARLES EDWARD LEWIS, Ph. D.
Associate Plant Pathologist in the Experiment Station
78 North Main Street

CHARLES WILSON EASLEY, Ph. D.
Associate Professor of Chemistry
7 Main Street

OSKAR AUGUSTUS JOHANNSEN, Ph. D.
Associate Entomologist in the Experiment Station
Oak Street

WALTER WEIDENFELD BONNS, B. S.
Associate Horticulturist in the Experiment Station
Main Street

EDGAR MYRICK SIMPSON, B. A.
Assistant Professor of Law
31 Highland Avenue, Bangor

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

WALTER MOLBRAY CURTIS, S. B. 51 Main Street
Assistant Professor of Mechanical Engineering

* HARLEY RICHARD WILLARD, M. A. 40 Main Street
Assistant Professor of Mathematics

LEON ELMER WOODMAN, M. A. 20 Mill Street
Assistant Professor of Physics

VICTOR RAY GARDNER, M. S. A. Campus
Assistant Professor of Horticulture

ACTING HEAD OF THE COLLEGE OF AGRICULTURE

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Assistant Professor of Animal Industry

ARCHER LEWIS GROVER, B. S. 40 Main Street
Assistant Professor of Drawing

CHARLES PRESTON WEAVER, M. A. 61 Mill Street
Assistant Professor of English

LAURA COMSTOCK University Inn
Assistant Professor of Domestic Science

PAUL LEONARD BEAN, B. S. 28 North Main Street
Assistant Professor of Civil Engineering

CHARLES HOEING, Ph. D. Rochester, N. Y.
Assistant Professor of Latin (Summer Term)

MELVIN ERNEST SHERWIN, M. S. 22 Mill Street
Assistant Professor of Agronomy

GEORGE EDWARD SIMMONS, M. S. Forest Avenue
Assistant Professor of Agronomy

IN CHARGE OF AGRICULTURAL EXTENSION WORK

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GEORGE HENRY WORSTER, LL. M. 234 Center Street, Bangor
Instructor in Sales and Private Corporations

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

EVERETT WILLARD DAVEE 50 Mill Street
Instructor in Wood and Iron Work

WALTER EVERETT PRINCE, M. A. 26 Main Street
Instructor in English

CHARLES JENKINS CARTER 6 Pine Street
Instructor in Machine Tool Work

LESLIE INGALLS JOHNSTONE, B. S. Milford
Instructor in Civil Engineering

WILLIS FLYE WASHBURN, B. S. 6 Pine Street
Instructor in Chemistry

* Absent on leave.
LOWELL JACOB REED, B. S. College Street
Instructor in Mathematics

GEORGE EDWARD PEARSON, M. A. 6t Main Street
Instructor in English and Economics

HARRY NEWTON CONSER, M. S., M. A. Oak Street
Instructor in Botany

MAYNE ROSE CURTIS, M. A. College Street
Assistant Biologist in the Experiment Station

JOSEPH FARRINGTON MERRILL, B. S. Campus
Assistant Chemist in the Experiment Station

ALBERT GUY DURGIN, M. S. Middle Street
Assistant Chemist in the Experiment Station

WALTER ELWOOD FARNHAM Mill Street
Instructor in Drawing

ROBERT RUTHERFORD DRUMMOND, B. S. University Inn
Instructor in German

BERTRAND FRENCH BRAXN, B. S. 227 Essex Street, Bangor
Instructor in Chemistry

GEORGE ALVIN SCOTT, B. S. in E. E. 80 Main Street
Instructor in Physics

BENJAMIN ENGLE KRAYBILL, Ph. B. Campus
Instructor in Industrial Chemistry

JAMES RENFREW DICE, B. S. Campus
Instructor in Animal Industry

WINTHA RUDOLPH PALMER, B. S. Campus
Instructor in Horticulture

SHERMAN DANIEL CHAMBERS, B. S. Oak Street
Instructor in Mathematics

TRUMAN LEIGH HAMLIN, M. A. 12 Bennoch Street
Instructor in Mathematics

WALTER EDMUND WILBUR, B. S. 86 Main Street
Instructor in Mathematics

ERNEST CONANT CHESWELL 57 Main Street
Instructor in Engineering Laboratory Practice

EUGENE LOUIS RAIChE Cambridge, Mass.
Instructor in French (Summer Term)

LAURIE LORENZO BURGESS, Ph. D. Cambridge, Mass.
Instructor in Chemistry (Summer Term)

ALFRED BLANCHARD KIRSHAW, A. M. Newton, Mass.
Instructor in English (Summer Term)

ALBERT THEODORE CHILDS, B. S., E. E. 529 Hammond Street, Bangor
Instructor in Electrical Engineering
Tutors, Lecturers, and Assistants

ALICE MIDDLETON BORING, A. M.  University Inn
  Instructor in Zoology

TUTORS

WARREN EDWARD CONNOR, B. S.  Campus
  Tutor in Civil Engineering

NORMAN HASKELL MAYO, B. S.  Mill Street
  Tutor in Civil Engineering

ERNEST CLAUDE DREW, B. S.  80 Main Street
  Tutor in Physics

LECTURERS

FOREST JOHN MARTIN, LL. B.  Kenduskeag Ave., Bangor
  Resident Lecturer on Common Law Pleading and Maine Practice

CHARLES HAMLIN, M. A., LL. D.  25 Fifth Street, Bangor
  Lecturer on Bankruptcy and Federal Procedure

LUCILIUS ALONZO EMERY, M. A., LL. D.  Ellsworth
  Lecturer on Roman and Probate Law

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

EDWARD HOWARD BLAKE, LL. B.  107 Court Street, Bangor
  Lecturer on Admiralty

ASSISTANTS

JAMES ADRIAN GANNETT, B. S.  12 Bennoch Street
  Commercial Secretary

ISABEL MONRO, B. S.  59 Mill Street
  Cataloger in the Library

BERTHA COREY WHITTEMORE  College Street
  Assistant in the Library

HARRY MORGAN WOODS, B. A.  55 Main Street
  Assistant to the Director of the Experiment Station

EMPLOYEES

CYRUS SKILLINGS WINCH  33 Elm Street, Bangor
  Taxidermist and Assistant Curator of the Zoological Collections

ANDREW MAYHEW SHAW  College Street
  Superintendent of Grounds and Greenhouses

CHARLES ANDERSON SMITH  Campus
  Foreman of the Farm

HALSEY RICHARDSON WING  Campus
  Head Janitor
University of Maine

GEORGE ABRAHAM COLBURN
Head Carpenter
Bennoch Street

GRACE MARY COLBURN
Cashier
Bennoch Street

VIVIAN AUGUSTA PAGE
Stenographer in the College of Agriculture
21 Pine Street

HELEN CASHMAN, B. S.
Secretary to the President
59 Mill Street

BLANCHE FOLSOM POOLER
Stenographer in the Experiment Station
Stillwater

ADDIE WEED
Stenographer to the Deans and the Secretary
Veazie

LOTTIE ESTELLE McPHERETERS
Computer in the Experiment Station
7 Main Street

ALICE WOODS AVERILL
Laboratory Assistant in the Experiment Station
51 Mill Street

NELLIE WILKINS LANE
Matron of the Mt. Vernon House
Campus

HENRY ATLEIGH MILLET
Meteorological Observer in the Experiment Station
Campus

WALTER ANDERSON
Poultryman in the Experiment Station
Campus

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

HERBERT MORTON TUCKER
Herdsman
Campus

JOHN SUMMERS
Laboratory Assistant in the Experiment Station
Campus

WELLINGTON SINCLAIR
Superintendent of Experiment Station Farm, Monmouth, Maine
Monmouth

*STANDING COMMITTEES OF THE FACULTY*

Admission to College
The President, the Deans (sub-committee), Professor Chase, Professor Chrysler, Professor Colvin, Professor Drew, Professor Gardner, Professor Gray, Professor Jewett, Professor McKee, Professor Merrill, Professor Segall, Professor G. W. Thompson, Professor Weston

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

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Standing Committees

**Advanced Degrees**
Professor Chase, Professor Chrysler, Professor Colvin, Professor Gray,
Professor Walz, Professor Weston

**Approved Tutors**
Professor Hart, Secretary Balentine

**Athletics**
Professor Jones, Professor Boardman

**Attendance**
Professor Hart, Professor C. B. Brown, Professor Stevens

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

**Bulletins**
Professor Jones

**Catalog**
Professor Stevens

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

**Debate**
Professor Sprague, Professor Colvin, Professor Daggett

**Delinquent Students**
Professor Boardman, Professor Daggett, Professor Ganong
Professor Grover, Mr. Reed

**Entrance Examinations**
Professor Stevens

**Fitting Schools**
Professor Chase, Professor Chrysler, Professor Davidson, Professor
Gray, Professor Hart (Secretary), Professor Huddilton, Professor
McKee, Professor Stevens, Professor G. A. Thompson, Professor
G. W. Thompson
University of Maine

Health
Professor Russell, Professor Colvin, Professor Comstock, Professor Jackman

Honors
Professor Stevens, Professor Huddilston, Professor G. A. Thompson

Library
Professor Jones, Professor Colvin, Professor Ganong, Professor Jackman

Publicity
Professor Chase, Professor Gray

Registration
Professor Stevens, Professor Drew, Professor Hart

Rules
Professor Hart, Professor Jewett, Professor Stevens, Director Woods

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

Student Organizations Other Than Athletics
Professor Jones, Professor Daggett, Professor G. W. Thompson

Summer Term
Professor Stevens

Tuition Loans
President Fellows, Professor C. B. Brown, Professor Hart

The University Council
Faculty Members: President Fellows, Professor Boardman, Professor Hart, Professor Stevens
History

THE UNIVERSITY OF MAINE

HISTORY

The University of Maine is an integral part of the public educational system of the state. It completes the work done in the high school, as the work in the high school completes that of the primary and grammar schools.

Through appropriations by the state and the United States it furnishes instruction in the Liberal Arts and Sciences, Agriculture, Engineering, Forestry, Pharmacy, and Law.

By an Act of Congress, approved July 2, 1862 by President Lincoln, 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 accepting 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.
University of Maine

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

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

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

ENDOWMENT AND INCOME

The State of Maine received, under the Act of Congress above referred to, two hundred and ten thousand acres of public land, from which the University has realized an endowment fund of $118,300. This has been increased by a bequest of $100,000 from Abner Coburn of Skowhegan, who was for many years President of the Board of Trustees. The state pays to the University five per cent. on the fund realized from the public lands, and four per cent. on the Coburn Bequest. 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 $450,000 for the material equipment. The present value of the buildings and equipment belonging to the University, including gifts other than those made by the state, is estimated at $750,000.

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

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

Under an Act of Congress, approved March 17, 1906, the University received for the year 1906 $5,000, which is to be increased each year by $2,000, until it reaches $15,000 a year for the maintenance of the Agricultural Experiment Station.

By an amendment to the Agricultural Appropriation Bill, approved March 4, 1907, the University received $5,000 in the year 1907, and receives an addition of a like amount each year until the sum reaches $25,000.

Under an Act of the Legislature, approved April 2, 1909, the University receives $100,000 a year for each of the years 1909, 1910, 1911, and 1912, for buildings and maintenance. Student fees and miscellaneous receipts complete the income.
Location and Buildings

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

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

THE BUILDINGS AND THEIR EQUIPMENT

Oak Hall.—In the northern part of the campus is Oak Hall, a substantial four-story brick building used as a dormitory for men, named in honor of Lyndon Oak, of Garland, for many years a useful member of the board of trustees. It contains forty-nine rooms for students, and is furnished with bath rooms. It is heated by steam, supplied with water, and lighted by electricity.

Fernald Hall.—This building, named in honor of Merritt C. Fernald, LL. D., President of the University from 1879 to 1893, is a two-story brick building. It contains fifteen rooms devoted to the departments of chemistry and pharmacy. On the first floor are the quantitative and pharmaceutical laboratories, with offices and private laboratories for the professors of chemistry and pharmacy; upon the second floor are lecture rooms, the qualitative laboratory, the office and private laboratory of the instructor in qualitative analysis, a store room, and a recitation room. Under the roof are arranged the mineralogical laboratory, dark rooms, and a laboratory for freshman work. In the basement are an assay laboratory, a laboratory for water analysis, a room for organic preparations, and store rooms.

Coburn Hall.—Directly south of Fernald Hall is Coburn Hall, named in honor of Abner Coburn, of Skowhegan, the chief benefactor of the University. It is a brick building, three stories in height. In the basement are located a laboratory for animal and plant physiology, the taxidermist's laboratory, and the University Exchange. Connected with
Buildings

the basement is a small greenhouse for the use of the biological department. On the first floor are three recitation rooms, a research zoological laboratory, and part of the museum. On the second floor are the botanical and zoological laboratories and lecture room and part of the museum. On the third floor are recitation rooms for the departments of economics, philosophy, and German, the psychological laboratory, and the remainder of the museum.

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 clock tower. 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 mathematical department, and the office of the Dean of the University; the second floor contains the university chapel with a large pipe organ in the choir gallery, and the drill hall and gymnasium with a running track in the gallery. 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 x 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 Alumni Hall. The equatorial room is equipped with an eight-inch refractor of the best modern construction,
Buildings

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 both in descriptive and practical astronomy.

Lord Hall.—This building, named in honor of Honorable Henry Lord, Ex-President of the Board of Trustees, is designed for the departments of mechanical and electrical engineering. It consists of a main part, 82 x 56 feet in area and two stories in height, and an ell, 125 x 42 feet, partly of two stories and partly of one story. It contains six recitation rooms, a large drawing room, the shops, suitable laboratories, and offices for the professors and instructors. The mechanical laboratory contains the usual apparatus necessary for the study of strength of materials, steam and gas apparatus, principles of hydraulics, etc. For tests of materials there are two Riehle power operated testing machines, one of 60,000 lbs. capacity, for tensile, and compressive tests, and one of 150,000 lbs. capacity for tensile, compressive, and transverse tests, and a 20,000 pound transverse machine. These are equipped with the necessary measuring appliances. There are also gas and steam engines and apparatus necessary for the study of engine performance.

The shops comprise the machine shop, forge shop, foundry, carpentry, and pattern shop. These are all well equipped. The forge shop had complete new apparatus installed a few years ago. The forges are of the Sturtevant down draft type. New benches and new lathes have just been installed in the pattern shop, and also new lathes of the highest type in the machine shop.

The equipment in the electrical laboratory has been developed to parallel practical conditions as far as possible and consists essentially of a 20 kilowatt electrical sub-station, converting from a three phase, 60 cycle, 115 volt alternating current system to direct current by means of rotary converters and belted alternating current motors driving direct current generators. In addition to volt-meters, ammeters, and wattmeters for both direct and alternating current, the equipment includes circuit breakers, various types of transformers, three 7½ kilowatt special autotransformers giving variable pressures for experimental work and voltages for operating two and three phase rotary converters, a self starting rotary converter, a three phase generator, a three phase revolving field synchronous motor, a three phase variable speed induction motor, a single phase synchronous motor, a single phase self starting induction motor, direct current generators and motors, and laboratory telephone equipment.
Holmes Hall.—This is a two-story brick building, 81 x 48 feet, standing south of Alumni Hall. It is occupied by the Maine Agricultural Experiment Station and is arranged as follows:

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

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

An attached greenhouse is used by the entomologist and vegetable pathologist.

Library.—The library, completed in 1906, is the most attractive building on the campus. For its erection and furnishing the sum of $55,000 was given, without conditions, by Mr. Andrew Carnegie.

The 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 side is a reference room which leads to the librarian's office; there is also 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 art collections; on the second floor also are a lecture hall, with a seating capacity of one hundred and twenty-five, and five seminar rooms. The basement contains a newspaper room, a club room in which meetings of the various student organizations are held, a janitor's room, a store room, and a men's room.

The library is well lighted and 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.
University of Maine

building contains over forty rooms. It is built of brick, concrete, and slate, of the Tudor style of architecture, and has four floors including a well lighted basement for lecture rooms and laboratories.

On the first floor are the offices of the Dean of the College of Agriculture, the faculty room and library, the offices and class rooms of the professors of agricultural chemistry, animal industry, and poultry husbandry, and the office and filing room of the extension department.

On the second floor are the offices of the departments of agronomy, forestry, and domestic science, the agronomy and forestry lecture rooms, farm crops laboratory with seed and plant storage rooms, bacteriological laboratory, and the kitchen and dining room of the department of domestic science.

Across the front of the building on the third floor are the office, class room, refrigerator, and laboratories of the department of horticulture.

The remaining half of this floor is occupied by a large lecture room and two draughting rooms separated from the larger room by folding doors, so that the three rooms can be thrown into a large auditorium at any time.

The basement is built high above the grade line so that light and ventilation are good. It contains the office, lecture room, and operating room of the department of veterinary science, timber testing laboratory, a dry kiln, and a wood storage room for forestry, the agricultural chemistry laboratory, soil physics laboratory, a spraying laboratory, a laundry for the department of domestic science, dark rooms for photography, and lavatories.

The interior finish and furniture are in dark mission stain, and the building is equipped with electric lights, elevator, hot and cold water, gas, and high pressure steam for laboratory work.

THE STOCK JUDGING PAVILION.—Located about fifty feet to the rear of the Agricultural Building is an octagonal structure fifty feet in diameter. It is built of the same materials as the larger building and is used for scoring and judging stock. In the center of the structure is a ring twenty-five feet in diameter, and surrounding this ring are six rows of seats arranged in amphitheatre style. The building has a seating capacity of about six hundred and can be used for meetings too large for any of the rooms in the Agricultural Building.

THE POULTRY PLANT.—The poultry plant of the College of Agriculture consists of an incubator cellar, 25 x 40 feet in size, built of brick with non-conducting walls. On top of this cellar has been erected a one and a half story frame structure in which are located a poultry apparatus laboratory, in which machinery of various kinds is operated, and storage
Buildings

rooms for feed, incubators, brooders, and other equipment. Attached
to the incubator cellar is a brooder house, 15 x 40 feet, for winter instruc-
tion. It is equipped with a hot water heater. The fattening and killing
house is 14 x 45 feet in size with interior arrangement to demonstrate
crate and pen fattening. A room 14 x 16 feet in one end of this house
is used for a poultry dressing room and is equipped with water heater,
cooling tanks, etc. The several breeds of fowls kept by the College of
Agriculture for purposes of instruction are housed in colony houses of
various styles and sizes, and one long laying house built on the most
approved plans.

The poultry plant belonging to the Experiment Station contains an
incubator house, 31 x 31 feet, with tenement above; a poultry house,
12 x 150 feet; a poultry house, 16 x 120 feet; a two story house, 39 x 39
feet, containing three laboratories, feeding rooms, and storage rooms;
a building containing a hospital for hens, 16 x 36 feet, and rooms for
digestion experiments. The houses accommodate 700 mature birds.
There are also detached brooder houses capable of caring for 2,500 chicks.

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 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. The sheep barn, 125 x 20 feet, is of special
design and contains six large pens, a nursery, and a storage room. Two
tool houses furnish 10,000 square feet of floor room for the storage of
wagons and farm machinery.

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

A ten room farm cottage, occupied by the men employed in the
different departments comprising the College of Agriculture has also
been erected.

The Mt. Vernon House.—This is a wooden building, completed in
1898, which provides dormitory accommodations for women. It is situ-
atated near the recitation and laboratory buildings, upon a site overlooking
the campus and commands a beautiful view of the river, villages, and
hills. It is two stories in height, built in the colonial style, and consists
of a long central portion and two wings. It contains a parlor, dining-
room, kitchen, bath-room, and ten study rooms, intended for two students
each. The rooms are large, well lighted, heated by steam, and provided
with electric lights. A special feature is the long hall on each floor, extending sixty-six feet, and wide enough to serve as an assembly or study room. Mt. Vernon House is under the supervision of a matron.

The Fraternity Houses.—Eleven of the student fraternities occupy club houses. Nine 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. The fraternities maintain their own boarding establishments.

The Infirmary.—A small wooden building has been erected on the bank campus, to be used in caring for any cases of infectious disease that may 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 six 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 northern end of the campus, about 1,200 feet from the Gymnasium. It contains a quarter-mile cinder track, with a 220-yard straightaway, and is graded and laid out for football, baseball, and field athletics.

The Library

The library contains over forty thousand bound volumes and over ten thousand pamphlets, and includes the library of the Experiment Station, which contains about two thousand five hundred volumes, and that of the College of Law, which contains about three thousand volumes. 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 ten 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
Buildings

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 over time. Officers and alumni of the University may borrow any reasonable number of volumes without time limit, except that all books must be returned at least nine days before Commencement, and the return of any volume may be required at any time by the library committee. Other responsible persons may obtain the privileges of the library upon application to the Librarian. The Librarian and his assistants are glad to give advice and help at any time.
The museum is located in the wing of Coburn Hall and in an adjoining room in the main part of the building.

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

Geological Collections.—These collections occupying the upper floor of the wing of Coburn Hall are accessible daily during the college year except on Saturday and Sunday. Six new cases for the exhibition of specimens and storage of duplicate material have been placed in this room, and the museum has been entirely rearranged. They include the more important fragmental, crystalline, and volcanic rocks; a collection of building stones; a series designed to illustrate the rocks of the state; a general collection of the more common minerals; a collection of economic minerals furnished by the U. S. National Museum; an educational series of rocks furnished by the U. S. Geological Survey; and a small collection of plant and animal fossils.

The part of the museum illustrating the mineral resources of the state may be made of great value, both from the scientific and economic standpoint. Students and others residing in the state are urged to contribute specimens from their home localities. Acknowledgment is here made of valuable accessions from Mr. F. R. Patten and Dr. O. W. Knight.
Museum

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

During the year the taxidermist, beside preparing many birds and small mammals for exhibition, has completed the exhibition case of deer, which consists of an adult and spike-horned buck and an adult and young doe, with groundwork to represent the natural surroundings of these animals. The group occupies a large case near the entrance of the room that contains the collections.

Through the courtesy of the Fish and Game Commissioner and other friends of the museum most of the material that is needed for an exhibition case of moose has been procured. A young bull, as nearly a spike-horn as possible, is still needed.

Mr. Carl Preble of Bangor has generously donated four young foxes which will form part of a group of foxes when satisfactory adult specimens are obtained.

Mr. Granville M. Gray of Brewer has donated his valuable collection complete sets.

Others to whom the museum is indebted for valuable donations this year are Messrs. A. H. Sampson, H. R. Wing, E. H. Dakin, E. R. Gross, Harry White, Oscar Fickett, H. A. Parker, A. E. Elliott, B. McGarry, Claude Noyes, and Frank Lane. Many members of the faculty, students, and other friends of the University have contributed one or more specimens each, and the taxidermist has collected many of the nests and eggs of Maine birds. This includes fifty-eight complete specimens.

Botanical Collections.—These collections are situated in rooms on the second and third floors of Coburn Hall. The herbarium includes several collections of considerable value, the most important of which is the one presented to the University by Mr. Jonathan G. Clark, of Bangor, and made by the late Rev. Joseph Blake. It contains more than 7,000 species of both flowering and flowerless plants, and represents more especially the flora of Maine and other New England States, but includes many forms from the western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The
late Professor Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algae of the Maine coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticæ, Cummings and Seymour's North American Lichens, and a collection of economic seeds prepared by the U. S. Department of Agriculture.

The herbarium specimens illustrating the trees of the State have been largely replaced by new material during the past year, and a number of bottled specimens of conifers have been prepared, partly from material obtained at the Arnold Arboretum of Harvard University. A beginning has been made in the display of large blocks illustrating the general features of structure of the timber trees of the state. Additional space is needed for the display of this valuable collection. A large number of specimens of artificial silk have been furnished by Mr. G. O. Hamlin, '00. Prof. L. H. Merrill and Mr. B. T. Harvey have contributed valuable specimens.

THE ART COLLECTION

The establishment of the Classical department in the University of Maine, in 1899, marked the beginning of an awakened interest in the College of Arts and Science. Parallel with the introduction of these studies has been the interest in an art collection which serves to vitalize and intensify the work in the humanities.

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

The entire collection numbers upwards of 4,000 reproductions of various sorts covering the fields of Classical and Renaissance architecture, sculpture, and painting. The illustrations for the Greek, Florentine, and Venetian schools are particularly representative. For much of the most important work the photographs are supplemented by lantern slides.

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

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

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

**ORGANIZATIONS**

The following is a list of organizations existing in the University: The Deutscher Verein, the Cercle Français, the Debating Society, the Electrical and Mechanical Society, Alpha Zeta, (honorary), the Agricultural Club, the Civil Engineering Society, the Chemical Society, the Literati the Dramatic Club, the Phi Kappa Phi (honorary), the Young Men's Christian Association, the Young Women's Christian Association, the Round Table, the Arts Club, the Athletic Association, the Glee Club, the Instrumental Club, the Band.

**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.

**JUNIOR CIVIL SOCIETY.**—This society is composed of the members of the junior class who take the course in civil engineering. The object of the society is to investigate by reading and discussion the various engineering topics of the day. Monthly lectures are given under the direction of the society by members of the faculties of other institutions and by other practicing engineers.

The affairs of the society are controlled by the students under the advice of the head of the department of civil engineering.

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

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

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

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

Deutscher Verein.—This society, organized 1902, is composed of students and teachers. Its purpose is to stimulate interest in the various phases of German life and literature and afford practice in speaking German. The number of members is in practice limited. Meetings are held every three weeks during the academic year.

Cercle Français.—The object of the Cercle Français of the University of Maine is to cultivate the spoken French language and arouse and stimulate an interest in the intellectual life of France among the students of the University. The work is carried on in French. Papers are read and discussed and addresses delivered by the members. Plays are studied with a view toward production in French. The Cercle Français meets once in two weeks.

Phi Kappa Phi.—The Phi Kappa Phi is an honorary society. At the end of the fall semester of the senior year the five members of the class having the highest standing are elected members, and at the end of the year the five next highest in the collegiate department, and two from the College of Law, are added.

The Young Men's Christian Association.—The Young Men's Christian Association, composed of men students, has for its object the promotion of Christian fellowship and aggressive Christian work. Religious services are held in the Library, and classes for the study of the Bible are conducted on Sunday. This association is a branch of the national Young Men's Christian Association.

The Young Women's Christian Association.—This is an organization for religious work composed of women students.

Round Table.—The Round Table is an organization of the wives of the professors in the University. Its purpose is to promote the social welfare of the students. For the past three years a monthly reception
has been given to the students in the Club Room of the Library, by the
ladies of the Round Table. These receptions are to continue as a regular
feature of the social life of the University.

**The Arts Club.—** This is a club composed of the Professors in the
College of Arts and Sciences with their wives. It meets once a month
and discusses subjects bearing on the various lines of work in that col­
lege.

**UNIVERSITY PUBLICATIONS**

**The Annual Catalog of the University of Maine.—** This contains
descriptions of the courses of study, lists of the trustees, faculty, and
students, and other information relating to the University.

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

**The University of Maine Studies.—** These are occasional publica­
tions containing reports of investigations or researches made by univer­
sity officers or alumni.

**The Maine Bulletin.—** This is a publication issued monthly during
the academic year, to give information to the alumni and the general
public. Among those of special interest to the public are bulletins relating to the Classical Course, the Courses in Agriculture, the Courses in Pharmacy, the College of Law, the College of Arts and Sciences, the Courses in Engineering, the Courses in Forestry, the Summer Term, and Student Expenses.

**Timely Helps for Farmers.—** This is a monthly publication issued in
the interest of the farmers and schools of the state by the Department
of Agricultural Extension.

**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.—** The Prism is an illustrated annual, published by the
junior class.

**MILITARY INSTRUCTION**

Military instruction is required by law. The department is in charge
of an officer of the regular army, detailed by the President of the United
States for this purpose. United States army rifles, model 1898, ammu-
nition, and accoutrements are furnished by the War Department. The course makes especial preparation for the duties of infantry officers of the line. The students are organized into an infantry battalion of four companies, officered by cadets selected for character, soldierly bearing, and military efficiency. The corps is instructed and disciplined in accordance with rules established by the President of the United States. These rules include the minimum course of instruction that must be covered, and the minimum time that must be devoted to this instruction.

The uniform prescribed by the Board of Trustees is as follows: For commissioned officers, the new olive-drab service uniforms prescribed for infantry officers of the United States Army, except that "Maine" insignia and buttons are used; for non-commissioned officers, the new olive-drab service uniforms of the United States Army, except that "Maine" insignia and buttons are used, and trousers instead of breeches. The total cost of the uniform is $14.15. The uniforms are procured through an authorized tailor, and are made in the best manner, of thoroughly good material. Cadets are required to wear the uniform when on military duty, and may wear it at other times.

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

All men students physically qualified are required to take military work for three hours a week during their first and second years 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 and sophomore years, the work is elective. Students in the College of Law, the School Course in Agriculture, and the Short Course in Pharmacy, are excused from military work.

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

**Physical Training**

Physical training is required of sophomores two hours per week. Credit is given on the basis of three hours of physical training to one
Physical Training

hour of recitation. All other students may elect this work and receive credit. Students registered on athletic teams are excused from this prescribed physical training during the time they are engaged in the regular athletic training, but no credit will be given for the athletic training unless the physical training is taken for the remainder of the year. Sophomores electing military work will be excused from work in physical training. Every student registering for an athletic team must pass the required physical examination.

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

The gymnasium affords excellent opportunity for physical training. On the first floor are the main offices, the office of the physical director, the baseball cage, lockers, bath rooms, and toilet rooms. The gymnasium proper is located on the second floor. There is a floor space of 6,262 square feet and an overhead running track. This is supplied with an equipment of modern apparatus for heavy and light gymnastic work.

All male students exercising at class hours wear the regulation suit which consists of white shirt, white running pants with blue stripe, and white rubber sole shoes.

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

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

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 and the Young Women's Christian Association are held twice each week. Vesper services are held during the year in the University chapel Sundays at 4 p.m. At these services repre-
sentatives of the various religious denominations of the state are present and address the students.

**GENERAL REGULATIONS**

The University has no rules for the guidance of students, with the exception of the following:

**RULE OF CONDUCT**

A student is expected to show both within and without the University such respect for order, morality and the rights of others, and such sense of personal honor as are demanded of good citizens and gentlemen.

The regulations in regard to the selection of studies, standing and grades, absences from recitations and examinations, entrance conditions, leave of absence, attendance upon chapel, penalties, examinations, and athletics, are printed in a 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 or three hours of laboratory work, or of other exercises not requiring preparation, count as one hour. No excuses for absence are asked for or required. Each student is expected to be present at every college exercise for which he is registered, including each chapel exercise. Any student absent in one semester, seven times from a class-room subject occurring five times a week, or six times from a subject occurring four times a week, or four times from a three-hour subject, or twice from a two-hour subject, or once from a one-hour subject, shall be notified. In case a subject continues only part of a semester the number of absences is proportionately reduced. If after such notice he shall have two additional absences he shall be dropped from that class. A student who has been dropped from a class on account of absences may apply to the Committee on Attendance for reinstatement. If the committee find his explanations satisfactory, and if the instructor reports that he can continue the course with profit, he may be reinstated. If after reinstatement his record be unsatisfactory either to the instructor or to the committee, he shall be permanently dropped from that class. (This rule does not apply to time work.)

Written examinations are held immediately before the beginning of the fall semester for all studies in arrears. A student absent from the University by permission of the Faculty, at the time of these arrearage examinations, may have a special examination at such time as may be
Regulations

arranged with the instructor under whom the arrearage occurred. For such a special examination a fee of two dollars shall be paid to the University. A student who fails to make up an arrearage in a required subject before the study is again given in class is required to attend recitations in that study, or make up the work under a tutor selected by the Faculty.

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

SCHOLARSHIP HONORS

Honors for scholarship are of two kinds, general and special. General honors are awarded, at graduation, to students who attain an average standing, after the freshman year, of ninety on a scale of one hundred. Special honors are granted for the satisfactory completion of an honor course in addition to the work required for a degree. An honor course must involve at least ninety recitations, or an equivalent, and be completed in one year. The methods of work are determined by the instructor, who should be consulted in each case by students desiring to take such a course. Honor courses are open to juniors and seniors who have attained an average standing of eighty per cent. in all previous work, and an average standing of ninety per cent. in all previous work of the department in which the honors are sought. A student may not register for an honor course later than the fourth week of the fall semester. Upon the completion of a course, the student's work will be tested by an examination, or thesis, or both, under the direction of the faculty committee on honors, and the result, together with the instructor's report, will be laid before the Faculty. Examinations for honors shall be held at such times and places as the committee on honors may appoint. They shall be distinct from any class examinations in the same course, which latter examinations the candidate for honors may or may not take, as he chooses. The honor examination shall be written and, if the committee so desires, also oral. The professors giving the courses shall submit to the committee papers for the honor examinations not later than one week before the date set for the examinations.

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

nature are stated upon the Commencement program and published in the annual catalog.

**DEGREES**

**Bachelors' Degrees**

The degree of Bachelor of Arts (B.A.) is conferred upon all students in the College of Arts and Sciences. These students are required to fulfill the proper entrance conditions and to obtain six credits in the department in which their major work lies.

The degree of Bachelor of Science (B.S.) is conferred upon students who complete the Chemical, Agricultural, Civil Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Forestry, Pharmacy, or Domestic Science courses.

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.

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

Theses required from candidates for the degree of B.S. must be completed to the satisfaction of the major instructor and deposited in the library, accompanied by the binding fee, not later than twelve o'clock (noon), nine days preceding Commencement. They shall be printed or typewritten, unless the subject matter prevents, on paper of good quality, 8 x 10\(\frac{3}{4}\) inches, with not less than one inch margin on the inner edge and half-inch margin on the outer. 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.
Degrees

Advanced Degrees

Graduate students, whether candidates for a degree or not, are required to register at the office of the University at the beginning of each college year, not later than Oct. 1. Those entering the University after that date must obtain the consent of the committee of advanced degrees before they can count a full year's work.

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

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

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

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

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

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

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

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

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

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

The professional degrees of Civil Engineer (C. E.), Mechanical Engineer (M. E.), and Electrical Engineer (E. E.), may be conferred upon graduates of the Civil Engineering, Mechanical Engineering, and Electrical Engineering courses, respectively, upon the presentation of a satis-
factory 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**

An estimate of the necessary annual expenses of a student in any department, except the College of Law, is made in the following table. For the expenses of students in the College of Law, see the article on that College. It should be noticed that clothing, traveling, vacation, society, and personal expenses are not included in the table. These vary according to individual tastes and habits. The table is made up for men students who room in Oak Hall and board at the Commons. The necessary expenses of other students are sometimes lower, but usually slightly higher. In all cases an allowance must be made for personal incidental expenses.

**ANNUAL EXPENSES FOR STUDENTS FROM MAINE**

Tuition, registration fee, and incidentals for the year ........................................ $60 00
Laboratory fees, (average) about ........................................ 10 00
Text-books, about ......................................................... 15 00
Board, 36 weeks at $3.00 or $3.50 ......................... $108.00 or 126 00
Heat and light for half room, and general care of dormitory ..................................... 30 60

Total ................................................................. $223.60 or $241 60

The tuition charge is $30.00 a semester, or $60.00 a year for students from Maine. For students from outside the state the tuition is $35.00 a semester, or $70.00 a year. Tuition includes what has heretofore been subdivided into tuition, incidentals, and registration fees.

By act of the Legislature, $30.00 per year is deducted from the above charge for students in the courses in Agriculture, this being the amount of tuition charged at the time of the ACT.

By action of the Legislature of 1909, the charge to engineering students from outside the state of Maine, for the next four years, is to be $100 per year instead of $70. The charge for students from outside the state of Maine in all other courses remains the same as heretofore, $70 per year.

The registration fee of $5.00, which is included in the tuition charge, must be paid at the beginning of each semester before the student enters any classes.

A fee of $2.00 is charged for any special examination.
Expenses

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

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

The cost of text-books will average about $15.00 a year for the course. These may be bought at the college store. The expense may be decreased by buying second-hand books.

Students in the laboratories and shops pay certain charges to cover the cost of materials and maintenance. These charges are as follows: chemistry, per semester, about $3.00; bacteriology, per course, $3.00; physics, per course, $2.50 to $3.50; pharmacy, per semester, about $3.50; mineralogy, $2.00; biology, per course, $2.00 to $3.00; civil engineering, $2.00 to $5.00; electrical engineering, per course, $2.50; mechanical engineering, per course, $2.00; shop work, per course, $4.00 to $5.00.

The largest item of expense is board. At the Commons, the university boarding house, the price is $2.75 a week exclusive of meat fish and eggs. The average cost is about $3.50 a week. Board may be obtained in clubs or private families at prices ranging from $3.50 to $4.50 a week.

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

Students in Oak Hall supply their own furniture with the exception of a cot bed. Applicants for rooms in Oak Hall or Mt. Vernon House should make early application to the Secretary, as the accommodations are limited. Students are required to furnish three sheets and two pillow cases in addition to the other bedding. All students, except incoming freshmen, who reserve rooms in Oak Hall will be required to make a deposit of $5.00 before August first.

The University does not assume responsibility for furniture left by students in their rooms. Such furniture is left at the student's risk.

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 to $3.00 a week if occupied by two persons.

Expenses in connection with athletics are met by voluntary subscriptions. They amount to $10.00 a year.

Women students who do not live at their own homes are required to room and board at the Mt. Vernon House. All the rooms in this house
are supplied with the larger articles of furniture. Six of the ten rooms are corner rooms. For rooms of the first grade, board, heat, and light the charge is $85.00 a semester for two in a room. For the second grade rooms the charge is $81.00. No discount is made for absence except for prolonged illness.

Plans have been accepted for a new dormitory, which, it is hoped, will be ready for occupancy in 1910.

A four story building in the village of Orono, known as the University Inn provides board and rooms for a number of students.

Each student is required to deposit with the treasurer a bond, with two names as sureties, in the amount of $150.00 to cover bills. Blank forms for bonds will be furnished by the Secretary upon application. Those who keep a sufficient deposit with the Treasurer to cover the bills of one semester will not be required to furnish a bond. The deposit required from Maine students is $65.00 for those who board at the Commons or Mt. Vernon House, and $35.00 for those who do not. For students outside of Maine these amounts are $100.00 and $40.00. For engineering students from outside of Maine the amount is $115.00. This deposit is in addition to the registration fee, and must be paid at the beginning of each semester. **No student will be allowed to graduate who is in debt to the treasury.**

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

**LOANS**

**Tuition Loans.**

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

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

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

The first grant of loans for each university year is made in the preceding June. Applications for loans are considered during May, and to insure attention at this time should be forwarded to the President not later than May 15. A second award is made in the fall semester.
Scholarships

cations 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 the Treasurer of the University, by whom it is loaned to needy students in the three upper classes. In the deed of gift it was prescribed that no security, but personal notes bearing interest at the prevailing rate should be required. Loans are made on the conditions that the interest shall be paid promptly, and that the principal shall be returned from the first earnings after graduation.

SCHOLARSHIPS AND PRIZES

The Kidder Scholarship, thirty dollars, was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the University, of the class of 1879, and is awarded to a member of the junior class to be selected by the President and the Faculty.

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

The Junior Exhibition Prize, fifteen dollars, is awarded to that member of the junior class who presents 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, is awarded to the best speaker in the sophomore class.

The Walter Valentine Prize, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., Geneva, N. Y., a graduate of the University of the class of 1875, is awarded to that member of the junior class who excels 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, is awarded to that member of the senior class who writes 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, is awarded
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to that member of the senior class in the Agricultural course who attains the highest standing.

The Pharmacy Prize, five dollars, is awarded to that student in the pharmacy department who attains the highest standing in chemistry, if that standing is satisfactory, in the last year of his course.

The Holt Prizes, the gift of Erastus Eugene Holt, A. M., M. D., LL. D., of Portland, are given to the three students of the senior class 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, is awarded to that member of the junior class who makes the most satisfactory progress in all studies during the junior year, and whose deportment is satisfactory, and who needs financial assistance.

The New York Alumni Association Scholarship, thirty dollars, is awarded upon conditions to be determined by the Board of Trustees. In 1908-9 it was awarded to the student who excelled in debate.

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

Mr. L. C. Bateman, of the Lewiston Journal, offers a prize of ten dollars for the best essay on Dairy Bacteriology, by any student in any agricultural course.

Hon. E. B. Winslow, of Portland, offers a cash prize of ten dollars to be awarded for the highest scoring butter, made and exhibited by any person who has taken the dairy course at the University of Maine. The butter is to be shown at the annual meeting of the Maine Dairy Association.

The American Pharmaceutical Association Prize, free membership for one year in the Association, is awarded by the Faculty, to the member of the senior class in Pharmacy who has the best record in his college course.

The Gilbert M. Cowell Scholarships, two scholarships of thirty dollars each, given by a member of the class of 1908, to be awarded to two students in the four year's Agricultural courses under the following conditions: These scholarships are to be awarded to students who have completed the first or second years work in the College of Agriculture. One-half of each prize is to be placed to the credit of the student on his term bill at the beginning of each semester of the following year.

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Admission

The scholarships are to be awarded to students who are in need of financial assistance, who are making the most satisfactory college record, and who have not been registered in any other course in the University. The selection of the students is to be made by the President and Faculty of the College of Agriculture.

ADMISSION

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

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

Special Recommendations.—A good preparation in algebra and geometry is most important for those who expect to enter engineering courses. The schools should give a part of the work in algebra and geometry, or a review of these subjects, during the last year.

Students preparing for the classical courses should devote especial attention to Greek and Latin composition, Roman history, and Latin pronunciation according to the Roman method.

Special Students.—Persons not candidates for a degree, who wish to take special studies, may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to take the desired studies. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, rather than 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.
University of Maine

Admission by Examinations.

Entrance examinations are held at Orono, beginning four days before the opening of the fall semester, and on the Wednesday, 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. If possible these examinations should be in charge of the principal of the school. 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 immediately accompanied by the endorsement of the examiner. The examinations must be given on the days appointed in the schedule. 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 by the University. 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 advised that candidates avail themselves of this privilege as far as possible. Examinations on subjects which are to be continued in college should not be taken more than one year in advance.

Admission by Certificate

Certificates for admission to the freshman class without examination are accepted only from graduates of schools approved by the New England College Entrance Certificate Board (except in the case of schools outside of New England). A list of approved schools will be sent upon application. 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 New England College Entrance Certificate 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 150 Brown St., Providence, R. I.
Admission

ENTRANCE REQUIREMENTS

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

To gain admission to any of the courses leading to the degrees of B.A. or B.S., 29 points must be offered by the candidates, according to the following schedules (to count 2 points, a subject must be pursued for one school year, with five recitation periods, of at least 45 minutes each, a week):

FOR THE B. A. COURSES

Required Subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign languages</td>
<td>8</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>History</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
</tbody>
</table>

Optional Subjects (7 Points to be Chosen)

(Not less than four points of any one foreign language will be accepted, except under special conditions.)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each year of Greek</td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td>2</td>
</tr>
<tr>
<td>French</td>
<td>2</td>
</tr>
<tr>
<td>German</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Physics (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Solid Geometry</td>
<td>1</td>
</tr>
<tr>
<td>Roman History</td>
<td>1</td>
</tr>
<tr>
<td>Greek History</td>
<td>1</td>
</tr>
<tr>
<td>English</td>
<td>1</td>
</tr>
<tr>
<td>American History and Civil Government</td>
<td>1</td>
</tr>
</tbody>
</table>

The requirement in History must include either a year of Greek or Roman History, a year of English or American History, or a year of American History and Government. A choice will be allowed between the last half year of algebra and solid geometry for those who do not expect to continue mathematics in college.

FOR THE B. S. COURSES

(Engineering, Agriculture, Chemistry, Forestry, Pharmacy, and Domestic Science.)
### University of Maine

**Required Subjects**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Entrance English</td>
<td>6</td>
</tr>
<tr>
<td>Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Solid Geometry (College of Technology and Forestry Course)</td>
<td>1</td>
</tr>
</tbody>
</table>

**Optional Subjects (16 or 17 Points to be Chosen)**

(Of these, two years of one modern language, one year of science, and one year of history must be taken. 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 in college.)

Each year of French counts 2 points

<table>
<thead>
<tr>
<th>Language</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
<td>2</td>
</tr>
<tr>
<td>Latin</td>
<td>2</td>
</tr>
<tr>
<td>Greek</td>
<td>2</td>
</tr>
</tbody>
</table>

Advanced Mathematics (Algebra and Trigonometry) counts 2 points

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

Chemistry (including note-book) counts 2 points

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Physiography (one-half year or one year)</td>
<td>1 or 2</td>
</tr>
<tr>
<td>Biology (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Botany (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Zoölogy (including note-book)</td>
<td>2</td>
</tr>
<tr>
<td>Physiology</td>
<td>1</td>
</tr>
<tr>
<td>Roman History</td>
<td>1</td>
</tr>
<tr>
<td>Greek History</td>
<td>1</td>
</tr>
<tr>
<td>English History</td>
<td>1</td>
</tr>
<tr>
<td>American History and Civil Government</td>
<td>1</td>
</tr>
</tbody>
</table>

Candidates for admission to the B. S. courses who are well prepared in all the required subjects, but whose high-school course has included other subjects, instead of some of the electives mentioned above, will be allowed to substitute any subjects that will furnish a real equivalent. Each case of such proposed substitution will be considered upon its merits.

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

Candidates for the Short Course in Pharmacy (two years) are examined on Descriptive Geography, Arithmetic, English Grammar, Physiology, United States History, and Algebra through simple equations of the first degree. Graduates of high schools will be admitted upon recommendation of the Principal.

REQUIREMENTS IN DETAIL

The following statement shows in detail the requirements in each subject.

Languages

English.—The entrance examination in English presupposes courses in Composition and English literature pursued in the high school during four years. Prospective students are warned against attempting to prepare the required work in one year. Progress in Composition particularly is of slow growth, and requires almost daily cultivation during a long period of time. Books to be thoroughly enjoyed and appreciated, should be read leisurely and under favorable circumstances.

Rhetoric.—Candidates are expected to have had practice in composition for at least three days a week during the whole four years of the high school, and to have included in the latter part of their course work in the elements of Rhetoric such, for example, as is contained in Carpenter's Rhetoric and Composition.

Grammar.—The examination on the B list of books will include incidentally questions on the syntax of sentences, and on general grammatical principles.

The grammatical sense is slowly acquired. Grammar, therefore, should be studied in the early grades and kept up from year to year and not formally introduced in some one grade, as the seventh or eighth.

Weight of Composition.—The examination is mainly designed to test the candidate's ability to express his thought correctly and clearly. It is quite possible to answer all questions on the literature correctly, and yet fail on the examination as a whole because of crude and ungrammatical English. Prospective candidates are advised to give special attention to spelling, punctuation, grammatical correctness, idiomatic words and phrases, sentence and paragraph formation.

Subjects.—The subjects for the short compositions will be taken from the A list of books; also from the candidate's general knowledge and experience.

The prescribed books are those adopted by the Conference on Uniform Entrance Requirements. The A list is for general reading. The candidate is not expected to have a detailed knowledge of these books;
but such acquaintance with them as naturally follows intelligent and appreciative reading. For 1910, 1911, and 1912, the books are as follows:

A. Group I (two to be selected): Shakespeare's As You Like It, Henry V, Julius Caesar, The Merchant of Venice, Twelfth Night. Group II (one to be selected): Bacon's Essays; Bunyan's Pilgrim's Progress, Part I; The Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography. Group III (one to be selected): Chaucer's Prolog; Spenser's Faerie Queen, (selections); Pope's The Rape of the Lock; Goldsmith's Deserted Village; Palgrave's Golden Treasury, (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns. Group IV (two to be selected): Goldsmith's Vicar of Wakefield; Scott's Ivanhoe, Quentin Durward; Hawthorne's House of the Seven Gables; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; Dickens's Tale of Two Cities; George Eliot's Silas Marner; Blackmore's Lorna Doone. Group V (two to be selected): Irving's Sketch Book; Lamb's Essays of Elia; De Quincey's Joan of Arc, The English Mail Coach; Carlyle's Heroes and Hero Worship; Emerson's Essays (selected); Ruskin's Sesame and Lilies. Group VI (two to be selected): Coleridge's Ancient Mariner; Scott's Lady of the Lake; Byron's Mazeppa, The Prisoner of Chillon; Palgrave's Golden Treasury, (First Series) Book V, with special attention to Wordsworth, Keats, and Shelley; Macaulay's Lays of Ancient Rome; Poe's Poems; Lowell's Vision of Sir Launfal; Arnold's Sohrab and Rustum; Longfellow's Courtship of Miles Standish; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Evelyn Hope, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, and Pheidippides.

The B list of books is for thorough study. The examination will be upon subject matter, form, and structure.

B. Shakespeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and II Penseroso; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

French.—The admission requirements in elementary and advanced French are those recommended by the Modern Language Association of America.

I. Elementary French

At the end of the second year the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or
based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

The first year's work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; order of words in the sentence, and elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in memory the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; (4) the reading of 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English); and in reproducing from memory sentences previously read; (5) writing French from dictation.

The second year's work should comprise: (1) the reading of 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographic sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.


II. Advanced French

At the end of the third year the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

This should comprise the reading of 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant
practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories; Augier and Sandeau, Le Gendre de M. Poirier; Béranger's poems; Corneille, Le Cid and Horace; Coppée's poems; Daudet, La belle Nivernaise; La Brête, Mon oncle et mon curé; Madame de Sevigne's letters; Hugo, Hernani and La Chute; Labiche's plays; Loti, Pêcheur d'Islande; Mignet's historical writings; Molière, L'avare and Le bourgeois gentilhomme; Racine, Athalie, Andromaque, and Esclar; George Sand's plays and stories, Sandeau, Mademoiselle de la Sciglière; Scribe's plays; Thierry, Récits; Vigny, La canne de jonc; Voltaire's historical writings.

At the end of the fourth year the pupil should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century: to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose, and to carry on a simple conversation in French.

This should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable reading matter will be: Beaumarchais's Barbier de Séville; Corneille's dramas; the elder Dumas's prose writings; the younger Dumas's La Question d'argent; Hugo's Ruy Blas, lyrics, and prose writings; La Fontaine's fables; Lamartine's Graviella; Marivaux's plays; Molière's plays; Musset's plays and poems; Pellissier's Mouvement littéraire au XIX siècle; Renan's Souvenirs d'enfance et de jeunesse; Rousseau's writings; Sainte-Beuve's essays; Taine's Origines de la France contemporaine; Voltaire's writings; selections from Zola, Maupassant, and Balzac.

The examinations of the College Entrance Certificate Board in Elementary French will be accepted for four points, and that in advanced French for two additional points.

German.—The admission requirements in elementary and advanced German are those recommended by the Modern Languages Association of America.

I. Elementary German

The first year's work should comprise: (1) careful drill upon pronunciation; (2) memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the
writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill in the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with especial reference to the infinitive and subjunctive), and likewise in word order and word formation. To do this work two school years are usually required.

Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach, Die Freiherren von Gemperlein; Freytag, Die Journalisten and Bilder aus der deutschen Vergangenheit, for example, Karl der Grosse, Aus den Kreuzzügen, Doktor Luther, Aus dem Staat Friedrichs des Grossen; Fouqué, Undine; Gerstäcker, Irrfahrten; Goethe, Hermann und Dorothea and Iphigenie; Heine's poems and Reisebilder; Hoffman, Historische Erzählungen; Lessing, Minna von Barnheim; Meyer, Gustav Adolfs Page; Moser, Der Bibliothekar; Riehl, Novellen, for example, Burg Neideck, Der Fluch der Schönheit, Der stumme Ratsherr, Das Spielmannskind; Rosegger, Waldheimat; Schiller, Der Neffe als Onkel, Der Geisterseher, Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen; Scheffel, Der Trompter von Säckingen; Uhland's poems; Wildenbruch, Das edle Blut. A good selection would be: (1) one of Riehl's novelettes; (2) one of Freytag's "pictures;" (3) part of Undine or Der Geisterseher; (4) a short course of reading in lyrics and ballads; (5) a classical play by Schiller, Lessing, or Goethe.

The examinations of the College Entrance Certificate Board in elementary German will be accepted for four points, and that in advanced German for two additional points.

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

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

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

Plane Geometry.—The usual school course. The requirement in plane geometry and solid geometry is covered by the syllabus of plane and solid geometry issued by the Association of Mathematical Teachers in New England. This syllabus is recommended to the attention of teachers. Numerical exercises, original propositions, and the neat and careful construction of figures should not be neglected. The examination will include original propositions for demonstration or construction.

Solid Geometry.—See statement above under plane geometry. The examination will be planned to test the candidate's ability to apply the theorems to the computation of surfaces and volumes, as well as his readiness in demonstration. Much attention should be given to numerical exercises and strict accuracy should be insisted upon.

Trigonometry.—One entrance credit is given for a half year's work in trigonometry, which may be in plane trigonometry alone or in both plane and spherical trigonometry. Any of the standard text-books may be used. The course should include considerable practice in the solution of problems by using the natural values of the functions and also by
logarithms. Candidates wishing to pass the work in trigonometry of the Freshman year in advance are required to take at the University a more complete examination than is required for entrance credit.

Advanced Algebra.—Binomial theorem with negative and fractional exponents, permutations, combinations, partial fractions, logarithms with applications to compound interest, imaginaries, theory of variations, inequalities, graphs of equations of the third and fourth degrees, theory of equations including the remainder theorem, solution of equations by synthetic division, Descartes's rule of signs, relations between the roots and the coefficients of an equation, imaginary roots.

Sciences

* Chemistry.—The necessary ground is covered by the following textbooks: 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.

Requirements for Graduation

The college year is divided equally into a fall semester and a spring semester. Five recitation hours a week of successful work for one semester entitle a student to one credit. The minimum regular work for a semester in the College of Arts and Sciences is fourteen hours a week (exclusive of physical training and military science), leading to two and

* 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. In the case of students certificated in the sciences, the principal is expected to pass upon the quality of the note-books rather than send them to the University.
Instructors
four-fifths credits. In the other Colleges the minimum is seventeen hours a week (exclusive of physical training and military science), leading to three and two-fifths credits. Six credits in the major subject represent the minimum requirement for a degree. In making up the quota of studies, laboratory work, and other studies not requiring preparation, count as half time, unless otherwise specified. Such studies are marked with a star (*) or dagger (†) in the detailed description of courses of instruction.

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

COLLEGE OF AGRICULTURE
  The Agricultural Courses
  The Forestry Course
  The Domestic Science Courses
  The Extension Courses
  The School Course in Agriculture

COLLEGE OF TECHNOLOGY
  The Chemical Course
  The Chemical Engineering Course
  The Civil Engineering Course
  The Mechanical Engineering Course
  The Electrical Engineering 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 year's courses leading to the bachelor's degree. The College of Law offers a three year's course leading to the bachelor's degree.

The College of Arts and Sciences has the following graduation requirements:
University of Maine

1. English, one year, five hours a week, or the equivalent divided between two years, taken in college.
2. French and German, one year each, five hours a week, taken in college or preparatory school.
3. Science (chemistry, physics, or biology), one year, five hours a week, taken in college or preparatory school.
4. Courses in the classical departments, one year, five hours a week, taken in college.
5. Military Science and Tactics, two years, three hours a week.
6. Physical Training, one year, two hours a week.

The following courses may be elected to fulfill the conditions under No. 4:
- Greek 1, Greek 2, Greek 13, Greek 14, Greek 24; Latin 1, Latin 2, Latin 25; Philosophy 6.

The College of Agriculture, the College of Technology, and the College of Pharmacy have the following 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, or French), the equivalent of one year, five hours a week. The requirement for Latin is fulfilled by completing Latin 1 and Latin 2; and for Greek by completing Greek 1 and Greek 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, two years, three hours a week.
6. Physical Training, one year, two hours a week.

The science requirement in each college demands a year's work in 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 at least 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.

The requirements for admission to the College of Law are stated in connection with the description of that college.
COLLEGE OF ARTS AND SCIENCES

FACULTY OF INSTRUCTION

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

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

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

LUCIUS HERBERT MERRILL, Sc. D.
Professor of Biological Chemistry

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

JOHN HOMER HUDDILSTON, Ph. D.
Professor of Greek

GILMAN ARTHUR DREW, Ph. D.
Professor of Biology

RALPH KNEELAND JONES, B. S.

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

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

WALLACE CRAIG, Ph. D.
Professor of Philosophy

ROLAND PALMER GRAY, M. A.
Professor of English

RALPH HARPER McKEE, Ph. D.
Professor of Chemistry

GARRETT WILLIAM THOMPSON, Ph. D.
Professor of German

GUY ANDREW THOMPSON, M. A. Professor of English Literature

WINDSOR PRATT DAGGETT, Ph. B.
Professor of Public Speaking

CHARLES ALBERT VARNUM, Lieutenant-Colonel, U. S. A.
Professor of Military Science and Tactics

MYRON TRACY SCUDDER, M. A.
Professor of Education (Summer Term)

EDWARD STONE HAWES, M. A.
Professor of English (Summer Term)

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

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Faculty of Instruction

CHARLES WILSON EASLEY, Ph. D.

ANDREW PAUL RAGGIO, Ph. D.

* HARLEY RICHARD WILLARD, M. A.

LEON ELMER WOODMAN, M. A.

CHARLES PRESTON WEAVER, M. A.

CHARLES HOEING, Ph. D.

WALTER EVERETT PRINCE, M. A.

WILLIS FLYE WASHBURN, B. S.

LOWELL JACOB REED, B. S.

GEORGE EDWARD PEARSON, M. A.

HARRY NEWTON CONSER, M. S., M. A.

ROBERT RUTHERFORD DRUMMOND, B. S.

BERTRAND FRENCH BRANN, B. S.

GEORGE ALVIN SCOTT, B. S. in E. E.

BENJAMIN ENGLE KRAYBILL, Ph. B.

SHERMAN DANIEL CHAMBERS, B. S.

TRUMAN LEIGH HAMLIN, M. A.

WALTER HOWARD WILBUR, B. S.

EUGENE LOUIS RAICHE,

LAURIE LORENZO BURGESS, Ph. D.

ALFRED BLANCHARD KERSHAW, A. M.

ALICE MIDDLETON BORING, A. M.

ERNEST CLAUDE DREW, B. S.

GENERAL INFORMATION

The College of Arts and Sciences comprises:

The Bachelor of Arts Courses

The Summer Term

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

* Absent on leave.
University of Maine

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

2. Men and women who desire to enter professional schools which require a collegiate degree. The B. A. degree of the University of Maine is accepted as of the first rank at the graduate departments of our best universities.

3. Men and women who wish to fit themselves for the profession of teachers in secondary schools, or for school superintendencies.

ADMISSION

The requirements for admission are given in full on pages 49-60. They are practically the same as for other New England colleges and may be met by a four years preparatory course in a good high school or academy.

FRESHMAN STUDIES

The work of the first year is conditioned somewhat on the subjects offered for admission.

It is recommended that all students in this college register for as much of the required work as practicable in their freshman year, and they are expected to complete the whole of this work by the end of their sophomore year.

MAJOR INSTRUCTORS

Each student must select, in some one department, work to be pursued three or four years, on the average of five recitations a week. Any one of the following departments may be chosen for major work; biology (including zoology, botany, physiology, and entomology), chemistry, economics, education, English, German, Greek, history, Latin, mathematics and astronomy, philosophy, 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 depart-
Major Instructors

ment 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, and must bear some useful relation to his other work.

The head of the department in which the student has chosen his major subject becomes his major instructor, and during the remainder of the course this instructor acts as chief adviser in all matters relating to the course, and is a representative of the student before the faculty.

THE BACHELOR OF ARTS COURSES

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

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

GRADUATE COURSES

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

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

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

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

The course of study shall be submitted to and approved by the committee on graduate degrees.

The course of study shall consist of work in one major department or subject in which the candidate has already pursued undergraduate study for at least two years, and work in not more than two minor subjects
University of Maine

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

THE SUMMER TERM

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, entitle the student to full credit on the university books. There are no examinations for admission, and students are permitted to enter any class in which they can satisfactorily carry on the work. Before counting this work toward a collegiate degree, the college entrance conditions must be met.

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

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

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

3. Courses in physics, chemistry, mathematics, Latin, and other subjects 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.

Courses of Study

During the summer of 1909 courses were offered in the following subjects: Botany, Chemistry, Education, English, French, German, History, Latin, Mathematics, and Physics. These courses are described in connection with the courses offered at the University during the remainder of the year.
The Summer Term

Lectures, 1909

Dean J. N. Hart, Modern Astronomy (with stereopticon)
Professor M. T. Scudder, Playgrounds of America (with stereopticon)
Professor A. P. Raggio,
Readings from Dante's *Inferno* in various languages
M. and Mine. Raiche,
Reading of a two part French Play
Dean J. S. Stevens,
Experimental Lecture on Electric Waves

Vesper Services

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

Library

Throughout the summer term the University library of 40,000 volumes and the reading room, containing about three hundred periodicals and the Maine daily papers, is open from 9.00 A. M. to 12 M., and from 2.00 to 5.00 P. M. daily, except Saturday afternoon and Sunday.

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

Laboratories, Museums, and Observatory

The laboratories belonging to the departments of physics, chemistry, and botany are available for use of the students. In the physical and chemical laboratories there is ample provision for carrying on the various courses from the preparatory work to that of the graduate student in the University.

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

The fees for these courses may be found on page 45.

The museum is illustrative of the rocks and fauna of Maine, and is 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 is explained by Professor Hart in evening lectures.

Teachers' Agency

The authorities of the Summer Term have made arrangements with a Teachers' Agency whereby the students in attendance may secure the benefits of the agency without paying the usual registration fee. Fre-
University of Maine

quent calls are received each year for teachers, the demand greatly exceeding the supply. Every effort will be made to secure satisfactory positions for properly qualified teachers.

EXPENSES

Tuition for the term of six 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 covering cost of materials used in the laboratories:

For residents of Maine, $12.00.
For residents of other states, $18.00.

Board and room in the University buildings, including light and the necessary furniture, $24 for the term. The charge for rooms without board is $1.00 per week; and for board at the Commons $3.50 a week. Board may also be had at the Mount Vernon House for $5.00 a week for $5.00 a week.

RECREATION

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

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

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

IN GENERAL

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

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn. The list of instructors and the courses outlined in this catalog were for the summer of 1909. Unimportant changes are likely to be made for the coming term.
Department of Education

DEPARTMENT OF EDUCATION

ADVISORY COURSES

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

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

For upper classmen, the following electives are advised:

For Teachers of English:

SOPHOMORE YEAR
First semester: English 2a, 6, 8; German 3a or 1; French 3a or 1; Chemistry 1, 3; History 3; Education 1.
Second semester: English 2b, 7, 9; German 3b or 2; French 3b or 2; Chemistry 2, 4; History 4; Education 2.

JUNIOR YEAR
First semester: English 10, 12, 15, 17; Education 3; Economics 1a; Philosophy 1.
Second semester: English 11, 13, 14; Education 4; Economics 2a; Biology 4.

SENIOR YEAR
First semester: English 19, 20, 22; Education 5; History 7; Philosophy 6.
Second semester: English 21, 23, English course on secondary requirements; Education 6, 8; History 8; Philosophy 7.

For Teachers of Latin:

SOPHOMORE YEAR
First semester: Latin 3, 6; English 2a, 6; second year of modern language: History 1; Education 1: mathematics or science.
Second semester: Latin 4, 6; English 2b, 7; second year of modern language: History 2; Education 2; mathematics or science.
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JUNIOR YEAR
First semester: Latin 7, 9, 6, 11; third year of modern language; Economics 1a; Education 3.
Second semester: Latin 8, 10, 6, 12; third year of modern language; Economics 2a; Education 4.

SENIOR YEAR
First semester: Latin 15, 19a, 18, 13; English 8; third year of modern language; Philosophy 1; Education 5.
Second semester: Latin 16, 19b, 20, 21, 14, review of secondary texts; Philosophy 4; Education 6, 8.
For Teachers of Modern Languages:

SOPHOMORE YEAR
First semester: German 3a; French 3a; Latin 3; English 2a, 6; History 1; mathematics or science.
Second semester: German 3b; French 3b; Latin 4; English 2b, 7; History 2; mathematics or science.

JUNIOR YEAR
First semester: German 4a, 5a, 11; French 4a, 5a; Education 1; Economics 3a.
Second semester: German 4b, 5b; French 4b, 5b; Education 2, Economics 8.

SENIOR YEAR
First semester: German 7a, 8a; French 6a, 7a, Spanish or Italian; Philosophy 1 or History 5; Education 5.
Second semester: German 7b, 8b; French 6b, 7b, Spanish or Italian; Philosophy 4 or History 6; Education 8.
For Teachers of Mathematics:

SOPHOMORE YEAR
First semester: Mathematics 6b, 7; English 2a; German 3a; Physics 1; Drawing 1; Education 1.
Second semester: Mathematics 8; English 2b; German 3b; Physics 2, 5; Drawing 2; Education 2.

JUNIOR YEAR
First semester: Mathematics 19, 20, or 12; French 1 or 3a; Physics 8, or Physics 19; Education 3; Philosophy 1.
Second semester: Mathematics 11, 9, 15, or 13; French 2 or 3b; Education 4; Philosophy 4.

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Department of Education

SENIOR YEAR

First semester: Mathematics 10, 12, or 20; Economics 1a; History 7; Education 5.
Second semester: Mathematics 13 or 15, review of secondary mathematics with methods; Physics 9; History 8.
For Teachers of Physical Sciences:

SOPHOMORE YEAR

First semester: Chemistry 5, 14; German 3a or French 3a; Mathematics 6b, 7; English 2a; Education 1.
Second semester: Chemistry 6, 15; Mathematics 8; German 3b or French 3b; English 2b; Education 2.

JUNIOR YEAR

First semester: Chemistry 7; Physics 1; Biology 1; English 8; Education 3.
Second semester: Chemistry 8; Physics 2, 5; Botany 1; English 9; Education 3.

SENIOR YEAR

First semester: Chemistry 16; Physics 8, 9, 14; Economics 7a; History 7; Education 5.
Second semester: Chemistry 18; Physics 10 or 7; Physics 3, methods for secondary schools; Economics 8; History 8; Education 8.
For Teachers of Natural Sciences:

SOPHOMORE YEAR

First semester: Zoology 4, 7; Botany 1; Chemistry 1, 3; English 2a; German 4a, or French 4a; Education 1; Drawing 1.
Second semester: Zoology 1, 8; Chemistry 2, 4; English 2b; German 4b or French 4b; Education 2; Drawing 2.

JUNIOR YEAR

First semester: Botany 3; Zoology 2; English 6; Physics 12; Education 3.
Second semester: Zoology 3, 10; Botany 4, 5; English 7; Physics 5; Education 4. Zoology 10 or Botany 4.

SENIOR YEAR

First semester: Elective biology; Economics 3; Education 5; English 8; History 7.
Second semester: Zoology 5, elective biology; Economics 6; English 9; Education 8; History 8.
Note—As a preparation for the course in Latin, students should have taken four years of Latin and either three years of Greek or two of one modern language and one of another in the secondary school. If the student desires to prepare to teach both Greek and Latin, he should take three years of Greek and four of Latin in college. If he would omit Greek, he should take one year of the modern language in which he had most credits when he entered and two of another.
DEPARTMENTS OF INSTRUCTION

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

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

ASTRONOMY
Courses in astronomy are described under the department of mathematics.

BIBLIOGRAPHY
Professor Jones

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

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

BIOLOGICAL CHEMISTRY
The courses in this department are described under the College of Agriculture.

BIOLOGY
Professor Drew; Professor Chrysler; Mr. Conser; Miss Boring
The course in General Biology forms the basis for work in both zoölogy and botany. After the completion of this course, students may register for courses in either branch of the subject.

1. General Biology.—This course is designed to be part of the education of any college student and is open to all candidates for the B. A.
degree, as well as to more special students. It is regarded as essential for all students in the College of Agriculture, including those taking the Forestry Course, as well as those intending to take up the study of medicine or to follow any line of applied biology. It deals with the fundamental principles of biology and thus forms the basis for further work in either zoology or botany. In the laboratory each student studies with the microscope, or dissects selected animals and plants from the simpler forms, such as the Protozoa and Algae, to the complex, such as the frog and lily.

Recitations, three hours a week; laboratory, † four hours a week. Throughout the year.

2. VERTEBRATE ZOOLOGY.—Types of the Vertebrata are studied and their structures compared. Careful dissections are made of representatives of the higher classes of animals, beginning with a fish and ending with a mammal. It must be preceded by General Biology. Recitations, two hours a week; laboratory, † four hours a week. Fall semester.

3. ANIMAL HISTOLOGY.—The study of the microscopic structure of the higher animals. It consists of the comparative study of cells, the structure of tissues and the methods of preparing them for microscopic study. Students thus become familiar with hardening, embedding, sectioning, staining, and mounting, and to some extent with injecting blood vessels for the microscopic study of the vascular supply of organs. Vertebrate Zoology is required as a preparation for this course. Recitations, two hours a week; laboratory, † four hours a week. Spring semester.

5. ANIMAL PHYSIOLOGY.—Intended for those who already have an elementary knowledge of general biology and physiology. This course deals with the functions of the organs of the body and is accompanied by laboratory work to illustrate their activities. It should be preceded by Animal Histology. Recitations, three hours a week; laboratory, † four hours a week. Spring semester.

6. EMBRYOLOGY.—This course is intended to instruct students in the fundamental facts of the development of vertebrates. It includes lectures on the comparative embryology of vertebrates and laboratory work on the frog, fish, and chick, and to some extent on the pig. Animal Histology is required as a preparation. Recitations, two hours a week; laboratory, † four hours a week. Fall semester.

7. ADVANCED ZOOLOGY.—This course offers an opportunity for special zoological work along lines suited to the future plans of the student.
Biology

It may consist of field work, laboratory work, or reading, or a combination of all three. In general each student is given a problem for investigation and encouraged to devise methods for its solution. *The time varies and the work may be continued a number of semesters.* Fall and Spring semesters.

8. **Entomology.**—This course opens with the study of the anatomy and development of insects, after which typical species of the Orders are studied with reference to their structure, habits, life-histories, and adaptations. Due attention is given to the economic problems. General Biology is required as a preparation. Recitations, *two hours a week*; laboratory, † *four hours a week*. Spring semester.

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

10. **Plant Histology.**—The microscopic structure of the higher plants; the various tissues; the root, stem, leaf, and spore-bearing organs, the adaptations of plants to external conditions, considered from the standpoint of structure; killing, sectioning, staining, and mounting of plant tissues. This course must be preceded by General Biology. Recitations, *two hours a week*; laboratory, † *four hours a week*. Fall semester.

11. **Plant Physiology.**—The plant is considered from the standpoints of its activities; absorption and transport of raw material; manufacture, transport, and storage of food; growth; movement in response to stimuli. This course must be preceded by General Biology, and should follow Plant Histology. Recitations, *two hours a week*; laboratory, † *four hours a week*. Spring semester.

12. **Advanced Botany.**—This course offers an opportunity for special work in botany along the lines best suited to the future plans of the student. It may consist of laboratory work, field work, or reading, or a combination of all three. *The time varies and the work may be continued a number of semesters.* Fall and spring semesters.
13. **Elementary Botany.**—Studies in the structure and functions of the organs of plants; agents of pollination and the distribution of seeds and fruits; exercises in plant analysis and the identification of species in the field. Required of Short Pharmacy students. Recitations, *one hour a week*; laboratory, † *four hours a week*. Spring semester.

14. **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. Open to students who have taken elementary botany. Recitations, *one hour a week*; laboratory, † *four hours a week*. Fall semester.

15. **Agricultural Botany.**—This course deals with the special botany of farm crops and forage plants; the distribution and habits of growth of weeds; the purity and viability of seeds. Some systematic study of Maine weeds and grasses is required, but greater attention is given to the structure and life processes of the plants under consideration for economic ends. General Biology is a prerequisite. Recitations, *two hours a week*; field or laboratory work, † *two hours a week*. Fall semester.

16. **Plant Pathology.**—The diseases of plants, especially those caused by fungi; destruction of timber by fungi; methods of combating plant diseases. This course must be preceded by General Biology and may profitably be preceded by Plant Histology. Recitations, *two hours a week*; laboratory, † *two hours a week*. Spring semester of odd years.

17. **Forest Botany.**—This course consists of a systematic study of trees and shrubs, particular attention being given to those of the eastern states, and the identification of them in summer and winter aspects. Special attention is given to the forest trees of commercial value and their geographical distribution. Field work in the identification of local species and preparation of a forest herbarium are required in the autumn and early winter months. The laboratory work includes a study of the microscopic structure of the vegetative and reproductive parts of typical gymnosperms and angiosperms of arboreal habit. This course must be preceded by General Biology. Recitations, *two hours a week*; laboratory, † *four hours a week*. Throughout the year.
Astronomy

Summer Term (Mr. Conser)

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 effect 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 connecting and preserving material of different kinds in different ways. Considerable time will be devoted to life, based on the phenomena of absorption and movement, of experimental work on the physics and physiology of plant solutions, transpiration, respiration, carbon assimilation, and reproduction. Attention will also be given to the teaching of botany in secondary schools.

ECONOMICS AND SOCIOLOGY

Professor Sprague; Mr. Pearson

1a. Political Economy.—An introductory course dealing with the general principles and problems of modern economics, production, distribution and consumption, values, commerce, labor problems, and various other topics in this field of study. Required of junior engineers and of all who take course 1b. Open to others by special permission. Text-book and general discussions. Two hours a week. Fall semester.

1b. Advanced Political Economy.—This course is devoted to a more exhaustive study of special subjects in the economic field, labor unions, methods of arbitration, tariff history and problems, trusts and their regulation, railroads, insurance, business organizations, immigration, exhaustion of natural resources, and other special topics. This course is open to all who have had or are taking course 1a. Lectures, readings, papers, and discussions. Three hours a week. Fall semester.

2a. Money and Banking.—An introductory course to the study of money, banking, and finance. The history of money and the principal forms of currency used in the leading countries; the principles and
workings of the various banking systems of America and foreign coun-
tries; the monetary history of the United States. Required of junior
engineers and all who take course 2b. Open to others by special per-

2b. Public Finance.—This course is devoted to an extended study
of public financial problems. Taxation and various systems for the
collection of public revenue in America and Europe will be studied in
detail. Financial crises and depressions, their history and causes, will
receive considerable attention. Open to all who have taken or are tak-
ing course 1a, to others only by special permission. *Three hours a week.*
Spring semester.

3a. Sociology.—This course is devoted to the study of the evolution
of society and social institutions, the family, religious organisms, the
state and property, and such current social problems as divorce, crimi-
nality and prison reform, poverty and its relief, etc. General sociologi-
cal theory will occupy the last weeks of the semester. This course is
open to those who have taken course 1a, and to others only by special
permission. Students planning to take this course are advised to take
course 3b the preceding year, although it would be possible to take both
courses in the same year. Lectures, readings, and discussions. *Three
hours a week.* Fall semester.

3b. Anthropology.—The evolutionary origin and history of man;
characteristics of primitive man; departure from the animal status
and beginnings of civilization; development of industries, arts, and
sciences; growth of language, warfare, migrations, and social institu-
tions. Open to all students. Students planning to specialize in econom-
icss are advised to take this course before taking course 3a. Text-book
and lectures. *Two hours a week.* Given in the fall term of even years.

4a. Social Reforms.—Socialism, communism, and communistic settle-
ments, anarchy, nihilism, European systems of workingmen’s insurance,
trade union, relief associations, and other efforts providing against old
age and misfortune. Lectures and readings. Open to those who have
taken course 3a and to others by special permission. *Three hours a week.*
Spring semester.

4b. Ethnology.—Principles underlying racial distinctions. The origin
and characteristics of races or general ethnic groups. The great migra-
tions and changes worked by new environments and conflicts. Modern
Economics and Sociology

racial problems in America, Europe, and Asia. Open to those who have taken courses 3a or 3b. Lectures, readings, and discussions. Two hours a week. Given in the spring semester of odd years.

5. INTERNATIONAL LAW.—The principles, history, and prominent “cases” of international law take up most of the course. Considerable attention will be given to American diplomacy and the most important foreign treaties. Text-book, lectures, and discussions. Two hours a week. Fall semester of odd years.

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. Text-book, readings, and discussions. Students electing this course are generally advised to take it in the senior year. Three hours a week. Spring semester.

7a. GOVERNMENTS OF EUROPE.—A brief review of the ancient types of government followed by a detailed comparative study of modern European national governments. Political parties and current national problems will receive some attention. Lecture course with readings. Two hours a week. Fall semester.

7b. MUNICIPAL GOVERNMENT.—A study of the systems of government and special problems of the leading European cities as compared with the same in American cities. New movements for civic and social betterment to meet the necessities of American urban life. Lectures and readings. One hour a week. Given in the fall semester of even years.


9. DEMOCRACY, ITS HISTORY AND INSTITUTIONS.—The class will study the beginnings and development or early forms of Democracy and trace the great world movement down through the ages to the present. The greater part of the time will be given to a study of the current democratic movements in Europe, Australasia, and the American States. Lectures and readings. Two hours a week. Given in the spring semester of even years.
University of Maine

10. Economic History.—The leading facts of the economic history of Europe and America, introducing the student to the fundamental causes which lie behind much of narrative history, and examining the material and industrial resources which make the wealth of nations. Lectures and readings. Open to all students. Recommended for students planning to take other economics courses. Two hours a week. Given in the fall semester of odd years.

EDUCATION
Professor Davidson

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

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

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

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

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

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

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

9. **Applications of Educational Theory.**—For advanced students only. Research and experiment in the application of educational theory in our public schools. Among the problems that students investigate are:
   1. The introduction of motor activities in the first four grades.
   2. The value of percentage grading in estimating acquired power and knowledge in the higher grades.
   3. The causes that lead pupils to leave school at or before the completion of the work of the grammar grades.
   4. The value of repeating the year when pupils of the grammar grades fail of promotion, etc. *Two hours a week.* Fall semester.

**Summer Term (Professor Davidson; Professor Scudder)**

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

1. **Organization and Administration.**—Studies in school law. Comparative studies of school organization in Maine, in other states, and in Germany, France, and England. School administration.

2. **Foundations of Education.**—Studies in the nervous and mental organization of man with special reference to his capacity for education. The central nervous system, the brain, and the special senses will be studied with reference to their functions and contributions to education. Speech and the higher mental processes will be considered to establish a scientific procedure in instruction.

3. **Child Study.**—Studies of the child from birth to maturity. The physical child. The order of development of the mental powers; adolescence; adaptation of studies to the child.

Note.—Either No. 2 or No. 3 will be given, but not both, unless the registration for each is above ten.
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4. English Grammar.—In this course special study will be given to those constructions in prose text that are omitted in the handbooks of grammar. The course will also include a discussion of the different parts of speech and of the syntactic relations, to discover principles of classification where grammars disagree. The functions of prepositions, the relations expressed by infinitives and noun clauses, with their analogs in noun and phrase constructions will be examined, and also the genesis of noun and adverbial clauses. Advanced works for reference will be provided, but all should bring for purposes of comparison such handbooks of grammar as they possess.

5. A Businesslike Administration of a School System.—15 lectures.

6. Manual Training in the Elementary School.—Lectures and laboratory. This course will require a double afternoon period. The woodworking equipment of the Department of Mechanical Engineering will supply all needs for the woodworking section. These students will be shown how to introduce and conduct woodworking in the seventh to ninth grades. The elements of basketry, weaving, etc., as taught in the lower grades and the methods of conducting such work will be given for teachers and superintendents of lower grade work.

7. Social Activities of School Life.—This course will include student government, fraternities, playgrounds, athletics, social culture, social service ideals, etc.


ENGLISH

Professor Gray; Professor Thompson; Professor Daggett; Assistant Professor Weaver; Mr. Prince; Mr. Pearson

Two credits in English are required for graduation. Courses 3 and 4 which are prescribed for freshmen, give 1 1/5 credits. The remaining 4 1/5 credits are regularly obtained by taking courses 1a and 1b, 2a and 2b, or 2c and 2d.

Courses in this department should be taken in the following order:

First year: Courses 3, 4, 1a and 1b, 8.
Second year: Courses 2a and 2b, or 2c and 2d, 6, 7, perhaps 5a and 5b, 8, 20, 21.
Education

Third year: Courses 13, 5a and 5b, 18a and 18b, 10a and 10b, 11a and 11b, 15, 20, 21, 19a and 19b, 12a and 12b.

Fourth year: Courses 10a and 10b, 12a and 12b, 13, 9a and 9b, perhaps 23, 24, 25.

Students are expected to consult the head of the department, if they find it necessary to make a change.

Courses in Composition

3. English Composition and Rhetoric.—The object of this course is to give training in writing correct and clear English. One composition written outside of class and about three themes written in class are required each week. The theoretical work consists in the study of the fundamental principles of good usage in English writing; and of the narrative and descriptive forms of composition. In illustration of the theory many selections from literature are studied. This course is prescribed for freshmen. Each section is limited to twenty students. Three hours a week. Fall semester.

4. English Composition and Rhetoric.—The object of this course is the same as in course 3. The theoretical work consists in a study of the more elementary principles of exposition and argumentation. Practice in making outlines and briefs; themes and fortnightly essays. This course is prescribed for freshmen. Each section is limited to twenty students. Three hours a week. Spring semester.

2a and 2b. Expository Composition.—A lecture course of one hour on the theory of exposition. A second hour is devoted to writing in order to cultivate facility; monthly essays and conferences. Required of sophomores. Two hours a week. Fall and spring semesters.

2c and 2d. Argumentative Composition.—A lecture course of one hour on the theory of argumentation. A second hour is devoted to making briefs and writing short arguments in order to cultivate logical methods and facility; monthly essays, and conferences. Required of sophomores. Two hours a week. Fall and spring semesters.

Sophomores are required to register for either 2a and 2b, or 2c and 2d. These courses may not be postponed until the junior or senior year, without permission of the head of the department. English 3 and 4 are pre-requisites.

13. Advanced Composition.—Informal lectures on various literary forms and styles, with a large amount of writing. The object of the
Education

23b. Public Speaking.—A complementary course to 23a, devoted entirely to extemporaneous speaking. Three hours a week. Spring semester.

Courses in Language and Literature

5a. Old English (Anglo Saxon).—A first course, designed to introduce the student of English to the historical study of the language, and to the beginnings of English prose and poetry. 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. Lectures on the literature of the period 700-1000. This course is advised for those intending to teach English, and for all who wish a thorough knowledge of the language and literature. Three hours a week. Fall semester.

5b. Beowulf.—This, the oldest English epic, is read with attention to text, metre, literary and archaeological interests. Three hours a week. Spring semester. Pre-requisite 5a.

6. English Prose in the Eighteenth Century.—Among the writings studied will be selections from Addison, Swift, Johnson, Goldsmith, and Burke. Two hours a week. Fall semester.

7. English Prose in the Nineteenth Century.—Among the writings studied will be selections from Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. Two hours a week. Spring semester.

8a. History of English Literature.—An outline course, extending to the close of the sixteenth century, including extensive reading in the English classics. Lectures, assigned reading, and reports. This course is introductory to all other courses in English literature, and should be taken in the freshman or sophomore year.

Those who can elect only one course in English will probably find this course best suited to their needs. Three hours a week. Fall semester.

8b. History of English Literature.—A continuation of 8a, covering the periods from the seventeenth century to the present day. Three hours a week. Spring semester.

9a. Middle English Literature.—Elements of the grammar of Middle English: reading of the texts in Emerson's Middle English Reader.
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SUMMER TERM

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

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

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

4. English Poetry.—A careful and appreciative study of selected poems from the 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. Courses 3 and 4 will be given in alternate years. Students in English are requested to indicate their preference for 1910.

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

GERMAN

Professor Thompson; Mr. Drummond

1 and 2. First Year German.—A course for beginners. Joynes Wesselbadt German Lesson Grammar; composition; numerous texts read; conversation. Five hours a week throughout the year.
German

3a, 3b. Second Year German.—A course for students who have had courses 1, 2 or equivalent. The grammar study, composition and reading are progressively advanced from courses 1, 2. Three hours a week. Fall semester. Two hours a week. Spring semester.

4a, 4b. Third Year German.—A course for students who have had courses 1 and 2 and 3a, 3b or equivalent. Texts include 18th century literature; advanced composition; lectures on the history of German literature. Three hours a week throughout the year.

5a, 5b. Fourth Year German.—An advanced course for students who have had courses 1, 2, 3a, 3b and 4a, 4b or equivalent. Texts include 19th century literature; advanced composition with original themes; lectures on history of German literature. Three hours a week throughout the year.

These courses are carefully graded in difficulty and are to be taken in the order named.

For the convenience of engineering students and those who cannot take courses 1 and 2 (five hours a week) the following two courses are offered in which the work of courses 1 and 2 can be completed in two years.

1a, 1b. Elementary German.—Study of grammar, composition and easy texts which contain a practical vocabulary. Three hours a week. Fall semester. Two hours a week. Spring semester.

2a, 2b. Continuation of Course 1a, 1b.—More advanced study of grammar, composition and texts. Open to students who have completed courses 1a, 1b or equivalent. Three hours a week. Fall semester. Two hours a week. Spring semester.

Note.—Course 2a, 2b is not equivalent for course 3a, 3b.

6a, 6b. German Conversation.—Two hours a week throughout the year.

7a, 7b. Faust.—Reading of Faust (first part); selection from second part; study of Faust literature; lectures on the origin and development of the Faust idea. Two hours a week throughout the year.

8a, 8b. History of German Literature.—Lectures with assigned readings. One hour a week throughout the year.

9a, 9b. History of the German Novel.—Lectures given in even years. Two hours a week throughout the year.
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10a, 10b. History of the German Drama.—Lectures given in odd years. Two hours a week throughout the year.

11a, 11b. Scientific German.—Open only to students whose previous study of German will enable them to read scientific German with profit. Two hours a week throughout the year.

12a, 12b. History of German Education.—Lectures. One hour a week throughout the year.

13a, 13b. Old High German.—Wright's Old High German Primer; Braune's Althochdeutschches Lesebuch. Open to graduates and those whose major is German. Two hours a week throughout the year.

14. Gothic.—Conditions for electing this course are the same as for course 13a, 13b. Wright's Gothic Primer. Two hours a week. Fall semester.

15. Middle High German.—The conditions for electing this course are the same as for course 12 and 13. Wright's Middle High German Primer; translation of Middle High German texts. Two hours a week. Spring semester.

Collateral reading is a part of all the German courses, in which the reading of simple texts is designed to increase the vocabulary and cultivate fluency of translation.

The abundance of texts now available offers so wide a choice and variation that it is deemed inexpedient to name a list of books which will be read.

GREEK AND CLASSICAL ARCHAEOLOGY
Professor Huddilston

The department of Greek is arranged with the idea of presenting to the student an opportunity of becoming acquainted with several phases of Hellenic civilization and such courses are offered as will prove serviceable not only to those pursuing the classical languages but to the student of average interests who, not having studied Greek in the fitting school, may desire to include in his college course some work bearing on the permanent literary and art values contributed by the ancient Greeks to the civilization of both ancient and modern times.

Courses 1-10 cover the field of Greek language in its several periods of poetry and prose and assume the usual preparatory work in Greek.
Greek

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

2. Homer.—Odyssey, Books VI-XII. The reading of the remaining books, in English translation, is required. Assigned readings on the history of Greek poetry, "the Homeric question," and Homeric antiquities. Four hours a week. Spring semester.

3. Attic Orators.—Some of the shorter orations of Demosthenes; selections from the minor Attic orators; parallel reading on the history of Greek prose literature, and the public economy and social life of Athens. Two hours a week. Fall semester.

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

5. Thucydides.—Books II-III. Assigned reading in Herodotus, and a comparative study of the three great historians of Greece. Three hours a week. Fall semester. Open to students who have taken courses 1 and 3.

6. Aristophanes.—The Clouds and the Knights; lectures and collateral reading on the development of Greek comedy. Open to students who have taken courses 2 and 4. Two hours a week. Spring semester.

7. Plato.—Selected dialogues. Lectures on the history of Greek philosophy with special reference to Plato and Aristotle. Open to students who have taken courses 3 and 5. Two hours a week. Fall semester.

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

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

10. Greek Prose Composition.—An advanced course consisting of the translation into Greek of narrative and rhetorical passages. One hour a week. Fall semester.
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Courses 11-17 offer an introduction to the literature, religion, customs, art and history, and are adapted to the needs of students who may wish to devote only a year or two to Greek subjects.

11. Elementary Greek.—The declensions, conjugations; Xenophon's Anabasis, Books I-II, and daily writing of Greek based on the text. **Five hours a week.** Fall semester.

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

13. Greek Private Life.—Lectures, illustrated with lantern slides and photographs; assigned reading. **Two hours a week.** Given in the fall semester.

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

15. Greek Literature.—A general survey of the rise and development of the literature of ancient Greece with special emphasis upon the literary standards established by the Greeks; assigned readings in translation and investigation of special topics supplemented by lectures. **Three hours a week.** Fall semester of odd years.

16. Greek History.—A brief survey of the Pre-Greek nations with reference to their legacies to civilization, followed by the history of Greece from the earliest times down to the absorption of Greece by Rome. The development of political ideals, and the forces that were basal in Greek civic life and government will be kept to the front. Oman's History of Greece will be used, accompanied by collateral reading and lectures. Open to all students. **Three hours per week.** Fall semester of even years.

17. Greek Fine Arts.—The entire question, so far as time allows, of the development of art among the ancient Greeks will be discussed in lectures illustrated by the use of the stereopticon and photographs. Greek sculpture as representing the largest part of the extant remains of ancient art will receive the most attention; but the survey will include architecture, and painting, and the minor art of pottery. The
aim of the course will be to present a definite notion of the part that art played in the intellectual life of the Greeks and the significance of this legacy to succeeding ages. *Three hours a week.* Spring semester.

18. **History of Old Testament Literature.**—This course will cover the rise and development of the Bible as a piece of literature; the vicissitudes of the written and the printed texts; and the various English translations. As far as time permits the development of the Old and New Testament Canons will be included in the work. Lectures and assigned topics. Open to all students. *One hour a week.* Fall semester. Not given in 1910-11.


The following courses in the history of art bearing chiefly upon the influence of classical ideals in the Italian Renaissance are given at present as under the department of Greek:

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

2. **Art.**—A continuation of course 1, dealing chiefly with the masters of the high Renaissance in Florence and Rome. *One hour a week.* Spring semester of odd years.

3. **Art.**—Painting in the north of Italy, and the culmination of the Italian Renaissance in the Venetian masters. Lectures and collateral reading. *One hour a week.* Fall semester of odd years.

4. **Art.**—A continuation of course 3. *One hour a week.* Spring semester of even years.

5. **Architecture.**—A chronological survey of the development of ancient and modern architecture down to 1600 A. D. Greek and Roman architecture, their modifications in the Renaissance, and the various cathedral styles, represent the field covered in the course. Lectures,
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1. **Livy and Composition.**—Selections from *Livy, History of Rome*; composition, with review of Latin syntax. *Four times a week.* Fall semester.

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

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

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

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

6. **Latin Composition.**—Practice in writing Latin; study of Latin rhetoric. *One hour a week.* Spring semester.

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

8. **The Roman Elegiac Poets.**—Selections from Catullus, Tibullus, Propertius, and Ovid; lectures on the elegiac poets. *Two hours a week.* Given in the spring semester of odd years.
   *The following may be counted toward the Master's degree.*

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

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

11. **Roman Philosophy.**—Cicero (selections from the *Academica*, *De Officiis*, *Tusculanae Disputationes*, *De Finibus*, *De Natura Deorum*); lectures on the history and development of ancient philosophy. Open to
Latin

students who have taken, or are taking, courses 3-4 or 7-8. Two hours a week. Given in the fall semester of even years.

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

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

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

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

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

18. Roman Private Life.—Text-book work, supplemented by collateral reading and lectures upon some of the more important and interesting customs and institutions of Roman every-day life. Open to students who have taken courses 1-4. One hour a week. Given in the fall semester of odd years.


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

20. Roman Epigraphy.—The principles of the science, and the interpretation of selected inscriptions. One hour a week. Given in the spring semester of even years.
21. **Rapid Reading of Latin.**—Practice in reading without translation. Selections from various authors. Especially adapted for students expecting to teach the language. Open only to students whose major subject is Latin. *One hour a week.* Spring semester.

22. **Sanskrit.**—An elementary course in the classical language of India, with especial reference to the light it throws upon the history and grammar of the languages of Europe. *Two hours a week.* Given when asked for by a sufficient number of students.

23. **Sanskrit.**—A continuation of course 22, with more attention to the classical literature of India. *Two hours a week.*

24. **Roman Numismatics.**—Practice in the use of coins as original sources for the study of history, mythology, archaeology, etc. *One hour a week.* Given in the fall semester of even years.

25. **Roman History.**—The development of Rome to the time of Augustus. Lectures, reading, and recitations. *Three hours a week.* Given in the fall semester of odd years.

26. **Roman History.**—The Roman Empire. A continuation of course 25. *Three times a week.* Given in the spring semester of even years.

**Summer Term**

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

1. For Teachers of Latin, and for Students wishing to gain Entrance Credits in Latin. One course is offered in Virgil and one in Cæsar’s Gallic War. In these two courses various questions connected with the teaching of Latin will be discussed, such as questions of spelling and pronunciation, of grammatical forms and inflections, of syntax, prosody, etc.; also questions of bibliography, methods of translation, history, mythology, literature, and the various aids to the elucidation of the authors studied, together with the fundamental principles of the Latin language.

2. For Students who desire College Credits looking to the B.A. Degree. It is the plan of the department to offer a double course that shall cover the work of an entire college semester and be equivalent to that required for one college credit, and to vary this course from year to year so that a student in a few summers may complete a fairly comprehensive course of college study in Latin. For the summer of
Mathematics and Astronomy

1909 it is proposed to offer a course in Cicero, *De Senectute*, and Horace, Odes and Epodes, or a course in Pliny and Tacitus. The decision will rest with the class. This will be equivalent to the work offered for the second semester of the freshman year. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

MATHEMATICS AND ASTRONOMY

Professor Hart; *Professor Willard; Mr. Reed; Mr. Chambers; Mr. Hamlin; Mr. Wilbur

Students electing Mathematics as a major subject should expect to take courses 1, 2, 4, 6, 7, 8, 11, 12, 13, 15, 19, 20, 21 and either courses 9 and 10 or Mechanics 7 and 8. They are also advised to take several courses in Physics.

1. SOLID GEOMETRY.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. The text-book in Bush and Clarke's Solid Geometry. *Five hours a week for ten weeks.* Spring semester. Open to all freshmen who did not offer it for admission.

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

4. PLANE TRIGONOMETRY.—The text-book is Taylor's Trigonometry. *Five hours a week.* Fall semester, first twelve weeks.

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 Smith and Gale's Introduction to Analytic Geometry. *Five hours a week.* Spring semester, last ten weeks.

*Absent on leave 1908-09.*
6b. **Analytic Geometry.**—A continuation of course 6a. Conic sections; elements of solid analytic geometry. *Five hours a week.* Fall semester, first eight weeks.

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

8. **Calculus.**—A continuation of course 7. Integration of the elementary forms; integration between limits; integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.* Spring semester.

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, Physics 1 and Physics 5. The text-book is Young's Manual of Astronomy. *Three hours a week.* Spring semester.

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

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

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

13. **Advanced Integral Calculus.**—A continuation of course 12. *Two hours a week.* Given in the spring semester of even years.
Mathematics and Astronomy

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

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 semester of odd years.

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

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

20a. **Advanced Analytic Geometry.**—A course for students who have completed courses 6, 7, 8 and 11. *Three hours a week.* Given in the fall semester of even years.

20b. **Solid Analytic Geometry.**—A course based upon C. Smith's Solid Geometry. *Three hours a week.* Given in the spring semester of odd years.

21a. **History of Mathematics.**—Lectures and recitations. *One hour a week.* Given in the fall semester of even years.

21b. **History of Mathematics.**—A continuation of course 21a. Given in the spring semester of odd years.

22a. **Analytic Geometry and Calculus.**—A course given for students in Chemistry and for those in the B. A. courses who desire only a brief course in these subjects. *Two hours a week.* Given in the fall semester of even years.

22b. A continuation of course 22a. *Two hours a week spring semester.* Given in the spring semester of odd years.

**Summer Term**

1. High School Algebra. A course intended for teachers in preparatory schools and covering the second year's work. Special attention will be given to the methods of presenting this subject and those topics will be emphasized that are most important in preparation for college
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work. Candidates for admission to the University who are deficient in a part of their preparation in algebra are also advised to take this course.

2. Plane Geometry.—A review of the more important theorems with practice in the demonstration of original propositions and in the solution of numerical exercises. For teachers in preparatory schools and for candidates for admission who are slightly deficient in geometry.

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

4. 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.

5. 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.

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

7. Differential and Integral Calculus.—A course intended for teachers in preparatory schools who wish to gain a knowledge of the elements of this subject.

8. Descriptive Astronomy.—Lectures accompanied by work in the observatory.

Note.—Five of the above courses will be given, to be determined by the number of students selecting them.

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 177.

PHILOSOPHY

PROFESSOR CRAIG

Students intending to major in this department should begin with courses 1 and 10. Those wishing only a minor amount of work in philosophy may begin with any course except 2, 8 or 9.

Philosophy 6 may be counted as three hours toward the ten hours in classics required of all candidates for the B. A. degree.
Philosophy

1. **Elementary Psychology.**—The subjects treated in this course are the anatomy and physiology of the nervous system and sense-organs, and elementary psychology, especially that of sensation, perception, instinct, habit and memory. The methods used are recitation, discussion, introspection (self-observation), observation of others, experiment and demonstration. Students electing this course are advised to precede or accompany it with biology 1; or if this be impossible, to read some up-to-date book on evolution and a similar work on human physiology. The text-book is Judd's *Psychology General Introduction*. Three hours a week. Fall semester.

2. **Psychology.**—A continuation of course 1, dealing especially with the higher psychic functions, such as imagination, conception, emotion and will. The text-books will be that of course 1 and also James's *Psychology (Briefer Course)*. Three hours a week. Spring semester.

3. **Ethics.**—The object of this course is to bring the student to do serious thinking on the question of the fundamental bases of morality, a subject on which every college man ought to have an intelligent opinion. The text-book is Dewey and Tufts' Ethics. Two hours a week. Fall semester.

4. **Social Psychology.**—The psychology of the crowd, the mob, the public, and the deliberative assembly; of fashion, convention, and custom; of social influence and social control. Two text-books may be used, Ross's *Social Psychology* and the same author's *Social Control*. Two hours a week. Spring semester.

5. **Logic.**—A course especially for three classes of students: namely, (1) Students of science, either pure science or applied; (2) Students of economics, or those preparing for law; (3) Students interested in debating. The object of the course is practical. It is to aid the student to reason correctly and also to aid him in criticizing his own or another's reasoning. Two hours a week. Fall and Spring semesters. Credit will be given for the Fall semester alone if so desired.

6. **History of Ancient Philosophy.**—Designed to give an insight into Greek and Roman thought as related to the life of the Greeks and Romans, and also to lay the foundation for a study of modern thought, since all modern philosophy has grown from the beginnings made by the Greeks. Rogers's *A Student's History of Philosophy* is used as a text-book. Extensive selections from Plato and from Aristotle are read and discussed. Three hours a week. Fall semester of even years.
University of Maine

7. **History of Modern Philosophy.**—Continuation of the preceding course, but may be taken separately, having different interests, connected with modern history and modern thought in literature, science, art and politics. Text-book as in the preceding course. Readings from Descartes, Locke, Berkeley, Hume, Kant and other modern classical philosophers. *Three hours a week.* Spring semester of odd years.

8. **Seminar.**—Reviews of recent literature, both philosophical and psychological. The student may select literature on a topic in which he is specially interested. The work may be continued a number of semesters. *One hour a week.* Fall or spring semester.

9. **Research.**—Primarily for graduate students. *The number of hours a week is not fixed, but must be arranged at the time of registration.* Fall or spring semester.

10. **Evolution.**—An elementary presentation of evolution in all its phases, cosmic, geologic, organic, psychic, and social. The bearing of evolution upon ultimate philosophic problems is taken up in the following course (11). *Two hours a week.* Fall semester.

11. **Introduction to Philosophy.**—The relation of science to philosophy and to religion. Discussion of materialism and idealism, mechanism and teleology, the nature of knowledge, and other fundamental problems. A text-book will be used. *Two hours a week.* Spring semester.

**PHYSICAL TRAINING**

The courses in this department are described on page 178.

**PHYSICS**

**Professor Stevens; Professor Woodman; Mr. Scott; Mr. Drew**

[Note.—For students who are specializing in this department the time indicated for the various laboratory courses may be extended. Two and one-half hours of laboratory work give a credit of one hour.]

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

2. **General Physics.**—A continuation of course 1; heat and electricity. *Three hours a week.* Spring semester.

3. **Qualitative Laboratory Work.**—A course in which students who are preparing to become teachers of physics are given the opportunity of performing the various class-room experiments which accompany the lectures in courses 1 and 2. *Five hours a week.* Fall semester.

5. **Laboratory Physics.**—The subjects usually included in an undergraduate course. Especial attention is given to the reduction of observations and the tabulation of results. Open to students who have taken either course 1 or course 12. *Five hours a week.* Spring semester.

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

8. **Theory of Electricity and Magnetism.**—Lectures and recitations on the mathematical theory of potential, capacity, and inductance, with applications to direct current phenomena. Hadley's Magnetism and Electricity for Students is used as a text-book. *Three hours a week.* Fall semester.

9. **Mechanics and Heat.**—Advanced laboratory work in continuation of course 5. *Seven and one-half hours a week, or five hours a week.* Fall semester.

10. **Optics.**—Advanced laboratory work in continuation of course 5. *Seven and one-half hours a week, or five hours a week.* Spring semester.

11. **Electrical Measurements.**—Advanced laboratory work in continuation of course 5. *Seven and one-half hours a week.* Fall semester.

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

13. **Theory of Electricity and Magnetism.**—Continuation of course 8, with applications to alternating current phenomena. *Three hours a week.* Spring semester.
14. Theory of Electrical Measurements.—Lectures and recitations on the mathematical theory of electrical instruments and measurements. Especial attention is given to a discussion of the ordinary laboratory methods of measuring resistance, potential, current, capacity, and inductance. Two hours a week. Fall semester of even years.

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. Five hours a week. Fall semester.

16. Special Laboratory Course.—A continuation of course 15. *Seven and one-half hours a week. Spring semester.

18. Electricity and Optics.—Advanced laboratory work in continuation of course 5. *Five hours a week. Fall semester.

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

Summer Term

1. An elementary laboratory course.—This includes the list of experiments adopted by the Maine colleges for admission in physics.

2. Advanced course.—Work in any laboratory course offered in the University may be taken by students in the summer term who are properly qualified.

3. A series of experimental lectures on general physics.—The grade of the work in this course will be determined by the preparation of the students electing it.

Romance Languages

Professor Segall; Professor Raggio

French

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

Romance Languages

3a. **French Prose.**—Bruce, Grammaire française; Lamartine, Histoire des Girondins (selections); France, Livre de mon ami. Collateral reading: Bruno, Le Tour de la France; Lacombe, Petite histoire du peuple français. Open to students who have taken courses 1 and 2 or an equivalent. *Three hours a week.* Fall semester.

3b. **French Prose.**—A continuation of course 3a. Bruce, Grammaire française; Sand, La Mare au diable; Hugo, Quatre-vingt-treize. Collateral reading: Michelet, France et Français; Laurie, Une Année de collège à Paris. *Two hours a week.* Spring semester.

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


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

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

6b. **An Introduction into the History of French Literature.**—Pellissier, Histoire de la littérature française. Lectures, recitations, reports. Open to students who have taken courses 4a and 4b. *Three hours a week.* Fall semester.


**Spanish**

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

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

10a. MODERN SPANISH PROSE.—Alarcón; Galdós; Valera. Composition. Open to students who have taken courses 9a and 9b. Three hours a week. Fall semester.

10b. MODERN SPANISH PROSE.—A continuation of course 10a. Two hours a week. Spring semester.

SUMMER TERM

PROFESSOR RAGGIO; MR. RAICHE

1a. Elementary Course.*—This course is intended for beginners. The text-book used will be Fraser and Squair's Abridged French Grammar (D. C. Heath & Co.), pp. 1-73.

1b. Continuation of Course 1a.†—The text-books used will be Fraser and Squair's Abridged French Grammar (D. C. Heath & Co.), pp. 73-128; Rambeau's French Reader (Henry Holt & Co.).

1c. Continuation of Course 1b.†—The text-books used will be Fraser and Squair's Abridged French Grammar (D. C. Heath & Co.), pp. 337-344; Rambeau's French Reader (Henry Holt & Co.).

2. Intermediate Course.—This course is intended for those who have already the required number of points for Entrance French, and who wish a course in French that may be counted towards a bachelor's degree. The text-books used will be Augier and Sandeau's Le Gendre de M. Poirier (American Book Co.); France's Le Livre de mon ami (Henry Holt & Co.); Gasc's Concise Dictionary of the French and English Languages (Henry Holt & Co.), or Clifton & McLaughlin's New Dictionary of the French and English Language (Wm. R. Jenkins Co.). Students should bring with them their grammars.

3. Empirical French Phonetics.—This course is intended for teachers who wish to concentrate their efforts upon French pronunciation. Students will be made familiar with the alphabet of L'Association Phonétique Internationale. Lectures on phonetic subjects will be given, and each member of the class will be expected to read, memorize, and declaim passages written in phonetic script. The text-books used will

* The requirements for Entrance French may be met by taking Courses 1a, 1b, and 1c in consecutive years.

† Students who already have two of the four points required for Entrance French may complete their requirements during one Summer Term by taking courses 1b and 1c.
Romance Languages

be Matzke's *A Primer of French Pronunciation* (Henry Holt & Co.) and Passy and Rambeau's *Chrestomathie française* (Leipzig, B. G. Teubner or New York, Henry Holt & Co.).

4. Colloquial French.—The object of this course is to familiarize the student with the common words and things of daily life. The textbook used will be Alge, Ripmann, and Buell's *First French Book* (Newson & Co.).
University of Maine

COLLEGE OF AGRICULTURE

FACULTY OF INSTRUCTION

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

VICTOR RAY GARDNER, M. S. A.
Acting Head and Assistant Professor of Horticulture

LUCIUS HERBERT MERRILL, Sc. D.
Professor of Biological and Agricultural Chemistry

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

FREMON T LINCOLN RUSSELL, B. S., V. S.
Professor of Bacteriology and Veterinary Science

GILMAN ARTHUR DREW, Ph. D.
Professor of Biology

RALPH KNEELAND JONES, B. S.
Librarian

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

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

PERCY ANDERSON CAMPBELL, M. S. A.
Professor of Animal Industry

ROLAND PALMER GRAY, M. A.
Professor of English

RALPH HARPER MCKEE, Ph. D.
Professor of Chemistry

GARRETT WILLIAM THOMPSON, Ph. D.
Professor of Germanic Languages

GUY ANDREW THOMPSON, M. A.
Professor of English Literature

WINDSOR PRATT DAGGETT, Ph. B.
Professor of Public Speaking

CHARLES ALBERT VARNUM, Lieutenant-Colonel, U. S. A.
Professor of Military Science and Tactics

HAROLD BELL, M. S. A.
Professor of Agronomy

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

CHARLES WILSON EASLEY, Ph. D.
Associate Professor of Chemistry

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

* HARLEY RICHARD WILLARD, M. A.  
  Assistant Professor of Mathematics
WILLIAM ARCHIBALD BROWN, B. S. A.  
  Assistant Professor of Animal Industry
ARCHER LEWIS GROVER, B. S.  
  Assistant Professor of Drawing
CHARLES PRESTON WEAVER, M. A.  
  Assistant Professor of English
LAURA COMSTOCK  
  Assistant Professor of Domestic Science
MELVIN ERNEST SHERWIN, M. S.  
  Assistant Professor of Agronomy
GEORGE EDWARD SIMMONS, M. S.  
  Assistant Professor of Agronomy

IN CHARGE OF AGRICULTURAL EXTENSION WORK
WALTER EVERETT PRINCE, M. A.  
  Instructor in English
WILLIS FLYE WASHBURN, B. S.  
  Instructor in Chemistry
LOWELL JACOB REED, B. S.  
  Instructor in Mathematics
GEORGE EDWARD PEARSON, M. A.  
  Instructor in English
HARRY NEWTON CONSER, M. S., M. A.  
  Instructor in Botany
ROBERT RUTHERFORD DRUMMOND, B. S.  
  Instructor in German
BERTRAND FRENCH BRANX, B. S.  
  Instructor in Chemistry
BENJAMIN ENGLE KRAYBILL, Ph. B.  
  Instructor in Industrial Chemistry
JAMES RENFREW DICE, B. S.  
  Instructor in Animal Industry
WINTHA RUDOLPH PALMER, B. S.  
  Instructor in Horticulture
SHERMAN DANIEL CHAMBERS, B. S.  
  Instructor in Mathematics
TRUMAN LEIGH HAMLIN, M. A.  
  Instructor in Mathematics
WALTER EDMUND WILBUR, B. S.  
  Instructor in Mathematics
ALICE MIDDLETON BORING, A. M.  
  Instructor in Zoology

* Absent on leave.

GENERAL INFORMATION

The College of Agriculture comprises the departments of Agronomy, Animal Industry, Horticulture, Agricultural and Biological Chemistry, Veterinary Science and Bacteriology, Poultry Husbandry, Domestic Science, Forestry, and Extension Work. The aim of the College is to prepare young men to become farmers, teachers of agriculture and the allied sciences in the schools and colleges, investigators of agricultural subjects in the United States Department of Agriculture, experiment station workers, foresters, and practical men; and to prepare young women to become teachers of Domestic Science and Elementary Domes-
tic Art and to understand thoroughly the problems arising in the administra-tion of the house-keeping of institutions or of a home. The student is re-quired to fill out a practical experience blank. Those who have not had experi-ence in the operations common to ordinary farms are required to make themselves proficient in such lines before graduation.

The courses of instruction are organized as follows:

1. **The Regular Courses:**
   - The four years' general course in Agronomy, Animal Industry, Horticulture, Poultry, Forestry, and Domestic Science
   - The four years' course for teachers in Elementary Agriculture
   - The special courses in Agronomy, Animal Industry, Horticulture, Poultry Management, and Domestic Science
   - The two years' Teachers' Course in Domestic Science
   - The one year Teachers' Course in Agriculture
   - The two year's School Course in Agriculture
   - The short winter courses in Agronomy, Animal Industry, Horticulture, and Poultry
   - Farmers' week

2. **The Extension Courses:**
   - The correspondence courses
   - The lecture courses
   - The demonstration work
   - The co-operative experiments

**The College Courses**

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

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

Students in agriculture who contemplate entering experiment station work should elect the course offered by the department of agricultural chemistry covering the qualitative and quantitative chemical analysis of fodders, fertilizers, and dairy products. Those intending to take this course should elect a preparatory course in quantitative chemical analysis.

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

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

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

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Subject</td>
<td>Hours</td>
</tr>
<tr>
<td>Agronomy 1</td>
<td>2</td>
</tr>
<tr>
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</tr>
<tr>
<td>Biology 1</td>
<td>5</td>
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<td>Chemistry 1</td>
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</tr>
<tr>
<td>Chemistry 3, †4</td>
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<tr>
<td>English 1a</td>
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</tr>
<tr>
<td>English 3</td>
<td>3</td>
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<tr>
<td>Drawing 1, *6</td>
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</tr>
<tr>
<td>Military 1, *3</td>
<td>1</td>
</tr>
<tr>
<td>Physical training*2</td>
<td>2-3</td>
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<td>19</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

| Agronomy 3, †4 | 2               | Agronomy 4       | 2     |
| Animal Industry 3| 2             | Poultry Husbandry 2 | 2     |
| Animal Industry 4, †2 | 1       | Poultry Husbandry 2a, †2 | 1 |
| Chemistry 14, †8 | 4           | English 2b       | 1     |
| English 2a      | 1               | Horticulture 1   | 2     |
| Modern Language | 3               | Horticulture 4   | 2     |
| Mathematics 4, 2| 5             | Modern Language  | 2     |
| Poultry Husbandry 1 | 1          | Mathematics 1, 2 | 5     |
| Poultry Husbandry 1a, †2 | 1             | Forestry 1       | 2     |
| Military 1, *3  | 1               | Military 2, *3   | 1     |
|                 | 21              |                 | 20    |
### University of Maine

#### Junior Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Subject</td>
<td>Hours</td>
</tr>
<tr>
<td>Agronomy 5</td>
<td>2</td>
</tr>
<tr>
<td>Agronomy 5a, † 2</td>
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<tr>
<td>Animal Industry 5</td>
<td>2</td>
</tr>
<tr>
<td>Animal Industry 6, 2</td>
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<tr>
<td>Horticulture 2</td>
<td>3</td>
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<tr>
<td>Biological Chemistry 1</td>
<td>5</td>
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<td>Modern Language</td>
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<td>Botany 8</td>
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</tbody>
</table>

#### Senior Year

| Agronomy, Animal Industry, Horticulture, or Poultry Husbandry | 3 |
| Veterinary Science 7 | 2 |
| Veterinary Science 8 | 1 |
| Forestry 2, † 3 | 1-2 |
| Thesis (minimum) | 3 |
| Electives | 7 |
|                     | 17 |

### Total: 17 credits

The following subjects are included in a major in Agriculture:

- Agronomy 1 to 5a inclusive: 2 credits
- Animal Industry 1 to 8 inclusive: 25-10 credits
- Horticulture 1 to 4 inclusive: 2 credits
- Veterinary Science 6 to 8 inclusive: 1 3-5 credits
- Biological Chemistry 1 and 2: 1 3-5 credits
- Forestry 1 and 2: 3-5 credits
- Agricultural Chemistry 3: 1 credit
- Bacteriology: 3-5 credits
- Poultry 1 and 1a, 6 and 6a: 1 credit

Total: 12 9-10 credits

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

Course in Agriculture for Those who Intend to Become Teachers of This Subject in the Public Schools

This course is offered in response to a call for teachers capable of teaching chemistry and agriculture in schools and academies. In order to receive a degree 150 hours, or 30 credits, must be received. The following course as laid down covers 146 hours. The remaining 4 hours have been purposely left open for elective work in order that the student may receive as liberal a training in cultural studies, as is consistent with the amount of technical work necessary. It is recommended that the electives be taken from the departments of biology, history, economics, chemistry, physics, or English.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
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<tr>
<td><strong>Subject</strong></td>
</tr>
<tr>
<td>Chemistry 1</td>
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<tr>
<td>Chemistry 2, † 4</td>
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<td>English 1a</td>
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<td>English 3</td>
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<tr>
<td>Drawing 1, * 6</td>
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<tr>
<td>Modern Language</td>
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<td>Mathematics 4, 2</td>
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<tr>
<td>Military 1, † 3</td>
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<tr>
<td>Physical Training * 2</td>
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<tr>
<th>SOFHOME YEAR</th>
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<tbody>
<tr>
<td>Agronomy 1</td>
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<tr>
<td>Biology I</td>
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<tr>
<td>Chemistry 14, † 8</td>
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<tr>
<td>Education I</td>
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<tr>
<td>English 2a</td>
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<tr>
<td>Mechanical Engineering 1b, * 4</td>
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<tr>
<td>Military Science * 3</td>
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<tr>
<td>Military Science * 3</td>
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**JUNIOR YEAR**

<table>
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<tr>
<th>Subject</th>
<th>Hours</th>
<th>Fall Semester</th>
<th>Subject</th>
<th>Hours</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Agronomy 3, † 4</td>
<td>2</td>
<td></td>
<td>Horticulture 4</td>
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<tr>
<td>Agronomy 5</td>
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<td>Horticulture 3</td>
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<tr>
<td>Agronomy 5a, † 2</td>
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<td>Education 8</td>
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<tr>
<td>Animal Industry 3</td>
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<td>Agronomy 11, * 3</td>
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<tr>
<td>Animal Industry 4, † 2</td>
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<td>Modern Language</td>
<td>3</td>
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<tr>
<td>Poultry 1</td>
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<td>Zoology 10</td>
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<tr>
<td>Poultry 1a, † 2</td>
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<td>Veterinary Science 6</td>
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<td>Education 5</td>
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<td>Veterinary Science 8</td>
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21

<table>
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17

The Special Courses in Agronomy, Animal Industry, Horticulture, Poultry Husbandry, and Domestic Science.

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

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
### First Year

**Fall Semester**
- Soils and Soil Management
- Animal Industry
- Fruit Handling
- English
- Business Arithmetic and Farm Accounts
- Carpentry
- Practical Dairying and Stock Management
- Farm Practice and Laboratory Work
- Fruit Picking, Packing, and Laboratory Work

**Spring Semester**
- Fertilizers and Farm Mechanics
- Animal Industry and Dairy Work
- Fruit Growing
- Poultry
- English
- Veterinary Science
- Forge Work
- Practical Dairying and Stock Management
- Farm Practice and Laboratory Work
- Orchard Practice and Laboratory Work

### Second Year

**Farm Crops and Farm Mechanics**
- Animal Industry
- Plant Propagation
- Poultry
- Farm Chemistry
- Farm Botany
- English
- Farm Practice and Laboratory Work
- Practical Dairying and Stock Management
- Seed Testing and Nursery Work

**Farm Crops and Farm Mechanics**
- Animal Industry
- Vegetable Gardening
- Insects
- Poultry Management
- Forestry
- Veterinary Science
- English
- Practical Dairying and Stock Management
- Farm Practice and Laboratory Work
- Garden Practice and Laboratory Work

---

**One Year's Teachers Course**

Nearly every state in this country requires that the elements of agriculture shall be taught in the public schools. Maine offers extra state aid to schools that will introduce such a course. There is a call, at salaries one-third to one-half larger than are usually paid, for teachers who have had a training in this subject.

The graduates of the College of Agriculture are not sufficient in number to fill these places, and in order to relieve the situation "the one year course" is offered.

---

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Agriculture

This course comprises a solid year of work in agriculture and closely related sciences and is designed for high school teachers, normal school teachers, and others who desire to fit themselves to teach agriculture in the secondary schools of the state but who cannot take the regular agricultural course leading to the B. S. degree. It is open to college graduates, high school teachers with at least two years experience, and normal school graduates who have had three years' experience in teaching.

The course of study is as follows:

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>Anatomy and Physiology of Domestic Animals</td>
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<tr>
<td>Animal Breeding</td>
<td>3</td>
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<tr>
<td>Fruit Growing and Pomology</td>
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<td>Stock Judging *3</td>
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<table>
<thead>
<tr>
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<tr>
<td>Plant Propagation</td>
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<tr>
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**Spring Semester**

**First Eight Weeks**

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<table>
<thead>
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<th>Course</th>
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<tr>
<td>Buttermaking *3</td>
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<td>Dairying</td>
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<tr>
<td>Vegetable Gardening</td>
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<tr>
<td>Vegetable Gardening Laboratory *3</td>
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</tbody>
</table>
The Short Courses in General Agriculture and Dairying, Horticulture, and Poultry Management

The short course in general agriculture and dairying begins on the Tuesday following the Christmas recess and continues for four weeks. It is designed to meet the requirements of creamery assistants, practical farmers, herdsmen, and others who desire to learn milk testing, butter making, the principles of animal nutrition and practices of feeding, breeding, judging stock, economical use of fertilizers, principles of crop production, and the diseases of farm animals.

The short course in horticulture is offered for those who wish to acquaint themselves with the most approved methods of orchard management. Special attention will be given to such subjects as the selection of orchard sites, selecting and obtaining nursery stock, pruning, cultivation, spraying, packing, and co-operation in the fruit business. Opportunity will be given for the laboratory study of spraying, packing, planting, pruning, and grafting. An effort will be made to show where money is lost and made in the fruit business.

The short course in poultry management is given each year to aid persons who wish a practical knowledge of the handling of incubators and brooders, the feeding and rearing of young chicks, the general management of mature fowls, scoring and judging, and killing and marketing. Supplementing the work of the regular instructors in the University some of the best known poultrymen in the country are engaged to give lectures and demonstrations along special lines. For purposes of incubation the College of Agriculture keeps representatives of the leading breeds of fowls.

Very few text-books are used in any of the courses and the expenses for board and room, which are the only other expenses, are moderate. Circulars giving the dates and programs of these courses are published each year and will be sent on request by applying to the College of Agriculture.

Farmers' Week

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

The Department of Agricultural Extension

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

This work is intended to help persons directly on the farm and in the home; to aid those who desire definite instruction in practical agriculture, horticulture, animal industry, and domestic science, but who cannot take a long or regular course at the University. It supplements the teaching and experimenting of the College of Agriculture and the Experiment station. It is professedly a popular work, because it endeavors to aid the farmer to solve the practical problems of the farm, to quicken agricultural work, and to inspire greater interest in country life.

Correspondence Courses

These courses are given by means of text-books and free publications, either furnished by the College or procured from the U. S. Department of Agriculture, or from the various Experiment Stations. The text-books are furnished at publishers' prices. The courses are free and may be taken by individuals, granges, reading circles, or other organizations. A certificate will be given to students completing any of these courses with satisfactory standing.

The following courses are offered:
- Course 1.—Farm Crops and Crop Production.
- Course 2.—Farm Management.
- Course 3.—Feeding and Breeding of Farm Animals and Dairying.
- Course 4.—Poultry Keeping.
- Course 5.—Fruit Growing and Vegetable Gardening.
- Course 6.—Forestry.
- Course 7.—Home Economics.
- Course 8.—Elementary Agriculture.
- Course 9.—Domestic Science.

More definite information will be sent upon request.

Lecture Courses

For these lectures the College of Agriculture will send members of the Faculty to speak at grange meetings, farmers' institutes, and other gatherings, if the traveling expenses of the lecturer are paid by those holding the meeting.

Demonstration Work

For this work the College of Agriculture will send members of the Faculty who will make demonstrations, showing as well as telling, how to solve many practical farm problems. These demonstrations are made
University of Maine

on the farms and in the barns of the farmer, and are offered under the
same conditions as the lectures.

The following is a partial list of the demonstrations that may be
secured: home mixing of fertilizers; milk testing (use of Babcock
tester); stock judging; potato spraying; orchard spraying; pruning and
grafting; apple packing; method of killing and dressing poultry; method
of determining the age of horses; methods of giving medicine to domes­
tic animals. All demonstrations are accompanied by lectures.

Cooperative Experiments

Experiments will be undertaken in coöperation with farmers along
such lines as the following: the determination of the formula best suited
for certain fields; the eradication of noxious weeds; the determination
of the best means for increasing the hay crop.

During the past year experiments with corn, hay, and fertilizers have
been carried on in every county in the state.

Circulars giving full information upon these subjects will be sent upon
request.

Besides the Demonstration work, Correspondence, and Lecture Courses,
the College of Agriculture welcomes all kinds of correspondence on prac­
tical farm topics. If information is desired along lines relating to crops,
fertilizers, dairy work, feeding, or orcharding and gardening, the various
instructors are ready to give such assistance as they are able.

The Forestry Course

A complete undergraduate course in forestry is arranged, which may
serve as the basis not only of practical work in forestry, but also of
a liberal education. A knowledge of the principles of forestry in its
different branches is given to the student, and some practice work is
done in the forest. For students of agriculture this course offers work
which will give a training in the management of the farmer’s woodlot.

The instruction in this department consists of lectures, recitations,
laboratory, and field work. The woodland belonging to the University,
together with adjacent land covered by a young forest, furnishes a field
for the study of many forest problems.

Students who complete the course are admitted to advanced standing
in the graduate schools of forestry and are thus able to shorten the
time required to obtain a master’s degree. Students completing the
course have also gone directly into practical work.

There are good openings for the student to obtain work in the Maine
woods during the summer vacations, and many take advantage of the
opportunity to get practical experience, and at the same time aid in
defraying the expense of their University course.
## Forestry

### Requirements for Graduation

#### FRESHMAN YEAR

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<tr>
<th>Subject</th>
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<td>Botany 1</td>
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<tr>
<td>English 1a</td>
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<td>English 3</td>
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<td>English 4</td>
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<tr>
<td>Drawing 1, *6</td>
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<td>Forestry 1</td>
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#### SOPHOMORE YEAR

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<td>Chemistry 2</td>
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<td>2 2-3</td>
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#### JUNIOR YEAR

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University of Maine

### Senior Year

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### Electives

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### Fall Semester

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### Spring Semester

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<tr>
<td>Philosophy 4</td>
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</table>

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

The Four Years' Course in Domestic Science and Elementary Domestic Art

This course leading to a B. S. degree prepares women to teach Domestic Science and Elementary Domestic Art in elementary, high, and normal schools, and in colleges. It gives instruction in cookery, dietetics, marketing, serving, household economics, laundry-work, sewing, and handwork. A foundation for the practical work is laid in pursuing a thorough course in chemistry, biology and physiology, and physics. Practice teaching and normal methods are based upon a study of psychology and the history of education.

Those desiring admission to this course must meet the regular college requirements.

Laboratory fees are charged to cover cost of materials used. Students of the University electing these courses are also required to pay the laboratory fees. These are as follows:
- Cookery courses 1-7, each $5 a semester
- Cookery courses 9-12, each $10 a semester
- Cookery course 8, $16 a semester
- Handwork courses $3 a semester
- Household economics $1 a semester
- Laundry-work $1 a semester
- Practical housework $3.50 a semester
- Household administration course 34, $1 a semester

The Four Years' Course in Domestic Science and Elementary Domestic Art

<table>
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<tr>
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<th>Spring Semester</th>
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<tbody>
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### University of Maine

#### Sophomore Year

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#### The Two Years’ Course in Domestic Science and Elementary Art.

This course aims to prepare women for teachers in Domestic Science and Elementary Domestic Art. It is offered to those who find it impossible to remain at the University for a longer period. This course does
Domestic Science

not lead to a degree but a certificate is granted when the prescribed course has been satisfactorily completed. Women who are graduates of a recognized high school or its equivalent and who have some practical knowledge of housework are admitted to this course without examination. It is desirable that a student should have taken, previous to her entering the University, courses in elementary chemistry, physics, and physiology. For information concerning fees see the four years' course.

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Three Months' Courses

Twice a year, terms beginning the first week of October and the second week of January, courses in Household Economics, Laundrywork, and Principles of Cookery or Fancy Cookery will be given. These courses are offered to those not in regular attendance at the University and for these fees will be charged as follows:

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DEPARTMENTS OF INSTRUCTION

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

AGRONOMY

Professor Bell; Professor Sherwin; Professor Simmons

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; 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 need, advantages and methods of drainage; irrigation. Two hours a week. Fall semester.

2. Soil Physics.—A course required in connection with course 1, consisting of a study of the different soils under field conditions; soil surveying and mapping; the collecting and sampling of soils for laboratory work. This laboratory course is designed to prepare the student to better understand the different methods of treatment of soils and the effect of these methods and soil texture upon structure, moisture, 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. *Three hours a week. Fall semester.

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
Agriculture

draft, the handling in the field, the taking apart and the putting together of the different classes of farm implements in possession of the department; the relative merits of wind, gasoline, denatured alcohol, steam, and electricity, as sources of power on the farm.

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

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

4. Soil Fertility and Fertilization.—A study of soil fertility as influenced by the source and formation of soil, leaching, drainage, growth of vegetation, and different types of farming. The use of fertilizers: the composition, cost, and value of fertilizers from different sources: the working out of fertilizer formulae suitable to certain crops, and methods, rate, and time of applying to the land. Practice in home mixing of fertilizers will be given. Two hours a week. Spring semester.

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

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

6. Advanced Agronomy.—Elective advanced work for those who have completed courses 1 to 5a inclusive. Lectures on plant breeding as applied to farm crops; farm management, and soil management. Special study is given to Experiment Station literature, methods, and work. Each student elects and carries on some line of original investigation and research. Two hours a week. Fall semester.

6a. Laboratory Advanced Agronomy.—A course to be taken with and supplementing Agronomy 6. †Two hours a week. Fall semester.


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,
University of Maine

France, and other foreign countries; the agriculture of the United States, its influence on social conditions, its relation to the State and Nation; the importance of our leading products, and their effect on the world's commercial life; the agriculture of different sections; the development of plant and animal life; the evolution of farm machinery and progress in agricultural education. Lectures supplemented by illustrative material and lantern slides. Elective and open to all students of the University. One hour a week. Spring semester.

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

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

ANIMAL INDUSTRY

Professor Campbell; Mr. Dice

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

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

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

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

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

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

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Bacteriology and Veterinary Science.

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

8. Laboratory Dairying.—Practice in handling and testing milk and cream, for butter fat, acidity, and solids; ripening cream; making butter and operating dairy machinery. This must be in conjunction with or preceded by Animal Industry 6 and 7. *Three hours a week. Spring semester.

9. Advanced Animal Feeding.—This course is devoted to the methods and practices of successful feeders in the production of milk, meat, and the rearing of horses. Elective for those who have completed Animal Industry 5. Two hours a week. Fall semester.

10. Advanced Dairying.—This course is intended for those who desire to follow some line of dairying. It will deal with such problems as the handling of milk for the city trade, certified milk plants, and those problems pertaining to the creamery. Elective for those who have completed Animal Industry 6, 7, and 8. Two hours a week. Fall semester.

11. Advanced Animal Breeding.—Lectures upon the formation of flocks, herds, etc.; a study of pedigrees, records, and the practices of successful breeders. Elective for those who have completed Animal Industry 1 to 4, inclusive. Two hours a week. Spring semester.

12. Advanced Live Stock Judging.—This course is intended for those who desire more practice in the judging of live stock than is given in Animal Industry 2 and Animal Industry 4. It will include score card work and comparative judging. Elective for those who have completed Animal Industry 1 to 4, inclusive. †Two hours a week. Spring semester.

13. Cheese Making.—Lectures and recitations upon the manufacturing and curing of Cheddar and other brands of cheese. Elective for those who have completed Animal Industry 6, 7, and 8. Two hours a week. Fall semester.

14. Cheese Making.—Practice in the laboratory. Taken in conjunction with Animal Industry 13. †Four hours a week. Fall semester.

BACTERIOLOGY AND VETERINARY SCIENCE

Professor Russell

1. Bacteriology.—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and the study of the morphological and biological characteristics of typical bacteria. Some outside reading will be required. This course
may be taken alone or in connection with Bacteriology 2. *Six hours a week.* Spring semester.

2. **Bacteriology.**—A lecture course open to all students. Should be elected by students taking Bacteriology 1 as well as by students who cannot take a laboratory course. Subjects considered will include history of bacteriology, classification and biological characteristics of bacteria, bacteria in air, water, soil, and dairy products, the relation of bacteria to health and disease, immunity. *One hour a week.* Spring semester.

3. **Bacteriology.**—A laboratory course in which students will study bacteria of water, air, soil, and dairy products; or pathogenic bacteria. Bacteriology 1 is a prerequisite. *Six hours a week.* Fall semester.

4. **Bacteriology.**—This is a laboratory course for students who desire to pursue some particular line of bacteriological investigation. Only open to students who have done considerable work in bacteriology. The kind of work and the time will be arranged to suit individual students.

5. **Veterinary Science.**—A laboratory course in normal animal histology. This course is designed for students preparing for the study of human or veterinary medicine and for agricultural students specializing in animal industry. The work will consist of a microscopical study of the anatomical elements of the animal body and their various combinations in tissues and organs. Books of reference will be studied in connection with the laboratory work. *Four hours a week.* Fall semester.

6. **Veterinary Science.**—A combined lecture and laboratory course dealing with the anatomy and physiology of our domestic animals and their treatment to preserve and restore health. *Three hours a week.* Spring semester.

7. **Veterinary Science.**—A continuation of Veterinary Science 2. *Two hours a week.* Fall semester.

8. **Veterinary Science.**—A clinic open to all students studying veterinary science. *One hour a week.* Fall and spring semester.

9. **Veterinary Science.**—Veterinary materia medica and pharmacy. *Two hours a week.* Fall semester.

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**BIOLOGICAL AND AGRICULTURAL CHEMISTRY**

**Professor Merrill**

1. **Biological Chemistry.**—Lectures and recitations on the composition of the plant; the source and assimilation of plant food; the composition of the animal body and of food materials; the chemical changes involved in the digestion and assimilation of food; and the chemical
Domestic Science

processes and methods of investigation by which these subjects are studied. *Five hours a week.* Fall semester.

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

3. **Agricultural Chemistry.**—This course includes a study of the origin and composition of soils: the source and composition of fertilizing materials: and the chemistry of milk and other dairy products. *Two hours a week.* Spring semester.

4. **Agricultural Analysis.**—A course in the qualitative and quantitative analysis of fodders, fertilizers, milk, butter and other dairy products. The course is designed for students desiring to take up experiment station work. Open to students who have completed the courses Chemistry 1, 2, 3, 4, 7, 8, 14, 15, 16. *†Ten hours a week.* Spring semester.

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

6. **Economic Geology.**—An elementary course in applied geology. The course will include a general survey of our mineral resources; and a study of rocks and their uses as building stone, as road material, and as sources of lime and cement. *Two hours a week.* Fall semester.

DOMESTIC SCIENCE

Professor Comstock

1. **Cookery.**—Lectures, recitations and laboratory practice. This course provides instruction in the general principles controlling the preparation of food with study of typical foods. It aims to develop fine technique in the use of materials and utensils. Serving, taken in conjunction with the course in cookery, deals with the arrangement of a dining room, table equipment, and rules for table service. Practical serving of at least one meal. Recitation, *one hour a week*; laboratory, *†two hours a week.* Fall semester.

2. **Cookery.**—Continuation of course 1. Marketing is included in the work of this semester. Lectures and recitations on purchasing and care of general supplies: vegetables, fruits, meats, poultry, and fish. Dairy products considered; adulteration and preservation of food. Recitation, *one hour a week*; laboratory, *†two hours a week.* Spring semester.
3. **Cookery.**—Canning and preserving occupy six weeks of this semester, the remainder of the time is given to general cookery. Accounts are taken this semester. The work includes household and institutional accounts; inventories; requisitions; making of bills; payment by check; vouchers; contracts. Open to students who have taken courses 1 and 2. Recitation, *one hour a week*; laboratory, † *two hours*. Fall semester.

4. **Cookery.**—Continuation of course 3. Open to students who have completed courses 1, 2, and 3. Recitation, *one hour a week*; laboratory, † *two hours a week*. Spring semester.

5. **Diet for Children.**—A thorough review of the principles of cookery. Practical tests given in which speed and dexterity are noted. A modification of the adults diet as adapted to children is considered. Open to students who have taken courses 1, 2, 3, and 4. Recitation, *one hour a week*; laboratory, † *two hours a week*. Fall semester.

6. **Diet for Invalids.**—Special consideration of food for the sick and convalescent. Same requirements as for course 5. Recitation, *one hour a week*; laboratory, † *two hours a week*. Spring semester.

7. **Cookery.**—A return to general cookery is made through work in large quantities, and the preparing and serving of meals. Demonstration work is another feature. Open to students who have taken courses 1, 2, 3, and 4. Recitation, *one hour a week*; laboratory, † *two hours a week*. Fall semester.

8. **Fancy Cookery and Field Work.**—A course which gives instruction in serving a formal dinner, fancy cookery including garnishing. Field work consists in visiting a model dairy, wholesale grocery, meat market, flour mill, canning factory, etc. Required work in the last semester of the two courses offered. *Three hours a week*. Spring semester.

9. **Cookery.**—Designed for those taking the two years teachers course. Includes instruction in general principles of cookery and study of typical foods. Recitation, *one hour a week*; laboratory, † *four hours a week*. Fall semester.

10. **Cookery.**—Continuation of course 9. Recitation, *one hour a week*; laboratory, † *four hours a week*. Spring semester.

11. **Advanced Cookery.**—Canning, preserving, and elaboration of the principles of cookery as taught in courses 9 and 10. Special diet for children given the last part of the semester. † *Four hours a week*. Fall semester.

12. **Diet for Invalids.**—Continuation of course 11 and diet for invalids. † *Four hours a week*. Spring semester.
Domestic Science

Sewing

13. **Hand Sewing.**—This course includes the fundamental principles of hand sewing taught in connection with the making of towels, napkins, aprons, skirts, etc. *† Three hours a week.* Fall semester.

14. **Hand Sewing.**—Making of undergarments by hand after a pattern. *† Three hours a week.* Spring semester.

15. **Machine Sewing.**—Drafting of patterns for undergarments and an unlined dress. *† Three hours a week.* Fall semester.

16. **Machine Sewing.**—Continuation of course 3. *† Three hours a week.* Spring semester.

17. **Hand Sewing.**—This course presents the essentials of courses 1 and 2 in a condensed form. *† Four hours a week.* Fall semester.

18. **Machine Sewing.**—This course presents the essentials of courses 3 and 4 in a condensed form. *† Four hours a week.* Fall semester.

Handwork

19. **Handwork.**—Consists of braiding, knotting, netting, knitting, crocheting, weaving, caning and basketry. *† Three hours a week.* Fall semester.

20. **Handwork.**—Continuation of course 1. *† Three hours a week.* Spring semester.

21. **Advanced Handwork.**—Basketry and weaving. *† Six hours a week.* Fall semester.

22. **Advanced Handwork.**—Continuation of course 21. *† Six hours a week.* Spring semester.

23. **Handwork.**—Offered to students taking the two years course. It includes all the principles involved in course 1. *† Three hours a week.* Spring semester.

24. **Handwork.**—Continuation of course 5. *† Three hours a week* for ten weeks. Spring semester.

Art

25. **Drawing.**—This course consists of a study in line, light and dark, and color. *† Three hours a week.* Fall semester.

26. **Design.**—Emphasis this semester in art work is placed upon design. The designs made are used in basketry and weaving. *† Three hours a week.* Spring semester.

27. **Construction.**—This course consists of lectures and the making of a lower floor plan of a modern house. The details of window, door, wall, and fire-place construction, chimneys, pantry, etc., are carefully...
considered. Special problem of planning Domestic Science kitchens. 
† Three hours a week. Fall semester.

28. COLOR SCHEMES.—Lectures on house furnishings and a practical 
problem of making color scheme using actual materials for the house 
planned in course 3. † Three hours a week. Spring semester.

Household Administration

29. HOUSEHOLD ECONOMICS.—Lectures, recitations, and practice. Principles of housework examined. Methods studied and practical application made. † Two hours a week. Fall semester.

30. LAUNDRY WORK.—Principles and processes included in laundry work are studied. Equipment for the home and school, care of equipment; processes of laundering; sorting and soaking clothes; removal of stains; methods of handling cotton, linen, silk, woollen; special points considered with colored materials; rinsing, bluing, making soap, etc. † Three hours a week. Spring semester.

31. HOME NURSING.—Considers the sick room and its appointments. Care of patient. Bandages, kind and technique. Contagious diseases; burns, frost-bites, etc. One hour a week. Spring semester.

32. PRACTICAL HOUSEWORK.—This course affords opportunity for a student to show practically her power in managing a household and serving luncheons to twelve or more people in a specified time and with limited means. Time to be arranged. Counts as two hours a week one semester. Senior year.

33. DIETARIES FOR FAMILIES.—This course reviews the chemistry and physiology of digestion: the metabolism of proteins, fats, and carbohydrates; function of food accessories; discussion of modern dietary standards; making of properly balanced menus. One hour a week. Spring semester.

34. MARKETING, SERVING, AND ACCOUNTS.—Same general plan followed as outlined in cookery 1, 2, and 3. Required of two-year students. One hour a week. Fall semester.

35. METHODS.—This course investigates the methods applicable to teaching Domestic Science and Domestic Art in the schools. Effort is made to discover the means whereby a wholesome atmosphere is secured in the school room and how the self-activity and self-direction of pupils may be fostered. Courses of study are outlined. One hour a week. Fall semester.

36. PRACTICE TEACHING.—Practice teaching is required of students in the senior year. This teaching is done under supervision. Time extends over twenty weeks at least of the year. † Two hours a week, for each semester.
Forestry

37. Thesis.—A thesis on a subject relating to Domestic Science and showing independent work is required of all students taking the four years course. Equivalent to one hour a week. Spring semester.

Summer Term

1. Cookery.—This course will include the principles and practice of cookery, including study of foods and the preparation and serving of meals.

2. Household Administration.—Courses in laundry-work, household economics, also marketing, serving, and accounts.

Forestry Professor Tower

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

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


4. Forest History.—The rise and development of forestry in European countries, the United States and other countries. Text-book, History of Forestry, by B. E. Fernow. Two hours a week. First-half of fall semester.

5. Forest Protection.—A consideration of the methods of economic protection of the forests. The European methods and conditions discussed and compared with our own. Two hours per week. Spring semester.

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 Biology 10 and 11. Two hours a week. Fall semester.

7. Silviculture.—A continuation of course 6. To be taken in connection with course 9. Two hours a week. Spring semester.
8. **Silviculture, Field Work.**—Special studies and practical work in the forest. A part of the time is devoted to the making of a forest map of 1000 to 2000 acres of forest land in the vicinity of the University. A report accompanies the map describing the condition of the tract and type of forest growth. Open to students in Forestry who have had Drawing 1 and 2. *Six hours a week. Fall semester.*

9. **Silviculture, Field Work.**—A continuation of course 8. It includes practice in thinning and work in planting; practical test of germinating quality of tree seeds and a study of seedlings. The student is required to make a planting plan for about 100 acres of land and prepare a map of the tract. This course should be preceded by courses 6 and 7. *Six hours a week. Spring semester.*

10. **Forest Measurements.**—Practical instruction in the woods and in the office. Some recitations.

   (1) Woods work.—The use of various hypsometers in ascertaining the height of standing trees; determining the contents of felled and standing trees and the volume of stands; study and use of American log scales; consideration of the methods of measurement used in the United States; study of the rate of growth of trees in diameter, height and volume.

   (2) Office work.—Computing the data obtained in the woods; calculating the contents of logs in cubic feet, and the contents of trees and stands in cubic feet, cords and board feet; use of graphic methods in determining the average rate of growth in diameter, height and volume; construction of tables of rate growth, volume and yield. *Six hours a week. Fall semester.*

11. **Forest Measurements.**—A continuation of course 10. *Six hours a week. First half of the spring semester.*

12. **Lumbering.**—The industry considered from an economic standpoint; an account of the methods of lumbering in the different parts of the United States. In connection with this course the student is expected to spend two weeks in a lumber camp and prepare a written report on the operations of lumbering in that locality. Fall semester. Two-fifths 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. *Two hours a week. First half of fall semester.*

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

Horticulture

HORTICULTURE

Professor Gardner; Mr. Palmer

Courses one to four inclusive are required of all students in the four years' course in the College of Agriculture. Courses five to ten inclusive are elective and open to students who have had sufficient preparation to do the work.

1. Principles of Fruit Growing.—A study of the methods of growing—harvesting, storing, and marketing the small and large fruits. Two hours a week. Spring semester.

2. Pomology.—A systematic study of the types and varieties of the leading groups of fruits, including practice in scoring. Two hours a week in classroom and two hours in the laboratory. Fall semester.

3. Orchard Practice.—A classroom and laboratory study of pruning, spraying, grafting, tree planting, and other orchard operations. One hour a week in classroom and four hours in the laboratory and orchard. Spring semester.

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

5. Greenhouse Management.—A study of the different greenhouse crops, supplemented by practice in the regular greenhouse operations. Open to juniors and seniors. One hour a week in classroom and two hours in the greenhouse. Fall semester.

6. Greenhouse Management and Construction.—A continuation of course 5 and including a study of the principles of greenhouse construction and heating. Open to juniors and seniors. One hour a week in classroom and two hours in the greenhouse. Spring semester.

7a. Plant Breeding.—A study of variation, its causes and laws, and heredity. Open to seniors. Two hours a week. Fall semester.

7b. Plant Breeding.—A study of breeding systems and practical breeding problems. A continuation of course 7a and must be preceded by it. Two hours a week. Spring semester.

8. Landscape Gardening.—A study of the principles of landscape art and of the materials used in making landscape pictures. Special attention given to the improvement of the home and school grounds. Open to seniors. Two hours a week. Spring semester.

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

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

MILITARY SCIENCE
The courses in this department are described on page 177.

PHYSICAL TRAINING
The courses in this department are described on page 178.

POULTRY HUSBANDRY
Professor Brown

Courses 1 and 1a and 6 and 6a are required of all four year agricultural students. The aim of courses 1 to 5 inclusive and 7 and 8 is to make it possible for students and others, who desire more work than can be obtained in the regular college exercises and three weeks short course in poultry husbandry, to come to the University and secure that knowledge by a system of electives.

1. Breeds.—A study of types and breeds of market and fancy poultry, their history, development, breed characteristics, economic and fancy values. One hour a week. Fall semester.

1a. Laboratory Practice.—The judging and scoring of the various breeds and varieties, and the handling, washing, and fitting of birds for exhibition. To be taken with course 1. †Two hours a week. Fall semester.

2. Poultry Management.—A study of feeding for egg production: incubation; brooding; housing; rearing of young stock; duck culture. Two hours a week. Fall semester.

2a. Laboratory Practice.—The setting up and operating of incubators and brooders, the feeding of young chicks, and the caponizing, growing, fattening, killing, dressing, and preparing of chickens for market. To be taken with course 2. †Two hours a week. Fall semester.

3. Poultry.—The subject considered as a business, as an investment, as an employment: its history, successes, failures, and possibilities. One hour a week. Fall semester.

3a. Laboratory Practice.—The planning and laying out of poultry plants, houses, and fixtures suitable for specialization on a large scale. †Two hours a week. Fall semester.
Poultry Husbandry

4. **Markets and Marketing**.—Consideration of the requirements of the best markets for poultry produce in America. The commission business, cold storage, co-operation. *One hour a week.* Fall semester.

5. **Poultry Literature**.—An advanced course in the study of the bulletins and reports of the experiment stations in this and other countries with particular attention to the work of the Maine Agricultural Experiment Station. *Two hours a week.* Fall semester.

6. **Farm Poultry**.—A study of poultry keeping on the farm, housing, feeding, marketing poultry products: ducks, geese, and turkeys. *Two hours a week.* Spring semester.

6a. **Laboratory Practice**.—The planning and building of poultry houses and appliances suitable for the farm, practice in the mixing of feeds, in the selection of breeding stock, and in the care and preservation of eggs. To be taken with course 6. *Two hours a week.* Spring semester.

7. **Insects and Diseases**.—An advanced course in the recognition of treatment for, and remedies for the various insects and diseases affecting poultry. *Two hours a week.* Spring semester.

8. **Original Research**.—Individual work which may be entered upon by either graduates or undergraduates who have sufficient training and interest to pursue some special line of study. Many opportunities are offered in the field of scientific research in poultry from the standpoints of biology, chemistry, and physics. The number of hours a week will be determined at the time of registration. Fall or spring semester.
University of Maine

COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

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

JAMES NORRIS-HART, C. E., M. S., Sc. D.  
Professor of Mathematics and Astronomy. Dean of the University

LUCIUS HERBERT MERRILL, Sc. D.  
Professor of Biological and Agricultural Chemistry

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

GILMAN ARTHUR DREW, Ph. D.  
Professor of Biology

RALPH KNEELAND JONES, B. S.  
Librarian

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

HAROLD SHERBURNE BOARDMAN, C. E.  
Professor of Civil Engineering

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

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

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

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

CHARLES BARTO BROWN, C. E.  
Professor of Railroad Engineering

ROLAND PALMER GRAY, M. A.  
Professor of English

RALPH HARPER McKEE, Ph. D.  
Professor of Chemistry

GARRETT WILLIAM THOMPSON, Ph. D.  
Professor of German

GUY ANDREW THOMPSON, M. A.  
Professor of English Literature

WINDSOR PRATT DAGGETT, Ph. B.  
Professor of Public Speaking

CHARLES ALBERT VARNUM, Lieutenant-Colonel, U. S. A.  
Professor of Military Science and Tactics

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

CHARLES WILSON EASLEY, Ph. D.  
Associate Professor of Chemistry
Faculty

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

WALTER MOLBRAY CURTIS, S. B.
Assistant Professor of Mechanical Engineering

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

LEON ELMER WOODMAN, M. A.
Assistant Professor of Physics

ARCHER LEWIS GROVER, B. S.
Assistant Professor of Drawing

CHARLES PRESTON WEAVER, M. A.
Assistant Professor of English

PAUL LEONARD BEAN, B. S.
Assistant Professor of Civil Engineering

EVERETT WILLARD DAVEE
Instructor in Wood and Iron Work

WALTER EVERETT PRINCE, M. A.
Instructor in English

CHARLES JENKINS CARTER
Instructor in the Machine Shop

LESLIE INGALLS JOHNSTONE, B. S.
Instructor in Civil Engineering

WILLIS FLYE WASHBURN, B. S.
Instructor in Chemistry

LOWELL JACOB REED, B. S.
Instructor in Mathematics

GEORGE EDWARD PEARSON, M. A.
Instructor in English

HARRY NEWTON CONSER, M. S., M. A.
Instructor in Botany

WALTER ELWOOD FARNHAM
Instructor in Drawing

ROBERT RUTHERFORD DRUMMOND, B. S.
Instructor in German

BERTRAND FRENCH BRANN, B. S.
Instructor in Chemistry

GEORGE ALVIN SCOTT, B. S. in E. E.
Instructor in Physics

BENJAMIN ENGLE KRAYBILL, Ph. B.
Instructor in Industrial Chemistry

SHERMAN DANIEL CHAMBERS, B. S.
Instructor in Mathematics

TRUMAN LEIGH HAMLIN, M. A.
Instructor in Mathematics

WALTER EDMUND WILBUR, B. S.
Instructor in Mathematics

ERNEST CONANT CHESWELL,
Instructor in Engineering Laboratory Practice

ALBERT THEODORE CHILDS, B. S., E. E.
Instructor in Electrical Engineering

ALICE MIDDLETON BORING, A. M.
Instructor in Zoölogy

WARREN EDWARD CONOR, B. S.
Tutor in Civil Engineering

NORMAN HASKELL MAO, B. S.
Tutor in Civil Engineering

ERNEST CLAUDE DREW, B. S.
Tutor in Physics

* Absent on leave.
University of Maine

The following executive committee of the Faculty of Instruction of the College of Technology is given power to arrange courses, act upon petitions, and transact general business relating to the technical time of the department of engineering. The regular meetings of this body occur on the Thursday preceding the general faculty meeting at 4:30 p.m.

Professor Boardman, Chairman; Professor Ganong, Secretary; Dean Hart, Ex-Officio; Professor Jewett, Professor Weston, Professor Brown, Professor McKee, Assistant Professor Curtis, Assistant Professor Grover, Assistant Professor Bean, Mr. Johnstone, Mr. Farnham, Mr. Cheswell, Mr. Childs, Mr. Connor, Mr. Mayo.

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, and in various branches of engineering. 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 Civil Engineering Course
- The Mechanical Engineering Course
- The Electrical Engineering Course
- The Chemical Engineering Course

At graduation in any of these courses the student receives the degree of Bachelor of Science. The diploma indicates which course has been completed.

THE CHEMICAL COURSE

This course is designed for those who plan to become professional chemists and analysts, or teachers of chemistry. Attention is given to preparation for the work of the agricultural experiment station.

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

#### Requirements for Graduation

**Freshman Year**

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<tr>
<th>Fall Semester</th>
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**Sophomore Year**

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**Junior Year**

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**Total**

- **Freshman Year** 19 hours
- **Sophomore Year** 20 hours
- **Junior Year** 19 hours
the engineering world. These lectures tend to increase the interest of
the student, and to bring him in touch with men outside of his institu­
tion.

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

The work of the first year is the same for all engineering students, especial attention being paid to mathematics and English. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased, until the last year when it is nearly all professional. In the spring semester of the third year the student is required to choose between two optional lines of study. Option 1 consists of work in Hydraulic Engineering, while Option 2 consists of work in Railroad Engineering. The time devoted to each option is the same. Owing to the available facilities of the department not more than sixty per cent of the number of students in a class are allowed to select either option. A written statement is required from each student before the close of the fall semester giving his reasons for his selection. The head of the department reserves the right to make the final division.

The following subjects constitute the regular four years' course. Certain general subjects which are given as requirements, may, on presenta­tion of satisfactory reasons to the head of the department, be omitted and others substituted.

### Requirements for Graduation

#### FRESHMAN YEAR

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<tr>
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### University of Maine

#### Sophomore Year

**Fall Semester**

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<tbody>
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<tr>
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<td>2</td>
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<tr>
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<tr>
<td>Modern Language</td>
<td>3</td>
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<tr>
<td>Physics 1</td>
<td>5</td>
</tr>
<tr>
<td>Drawing 3, *6</td>
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**Spring Semester**

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<tr>
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<tr>
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<tr>
<td>Mathematics 8</td>
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<td>Physics 5, *5</td>
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**Junior Year**

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<td>Mechanics 5</td>
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<td>Physics 9</td>
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**Senior Year**

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<td>Civil Engineering 14, † 12</td>
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<td>Civil Engineering 16&lt;sup&gt;or&lt;/sup&gt;</td>
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#### Additional Courses
- Electrical Engineering
- Mechanical Engineering
- Economics
Mechanical Engineering

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

The Mechanical Engineering Course

The prescribed studies in this course are intended to give the student a fundamental engineering training. Care has been taken so to arrange the sequence of subjects that the instruction given may have the greatest efficiency. Each course should be completed in its prescribed order. Variation from the stated order may only be made in important cases.

The first two years are preparatory for the professional work. In this time the prescribed courses in mathematics and language are completed. The student who would be successful in his professional studies should master thoroughly the required mathematics. A good reading knowledge of German or French should be acquired in this time, as many of the more important engineering papers first appear in those languages.

Time limitation prevents much specializing in the professional subjects of the last two years, other than by choosing among the various main branches of Civil, Electrical, or Mechanical engineering. Arrangements have been made, however, to allow a student of mechanical engineering to cover more ground in electrical engineering if his standing admits of the extra work.

The professional subjects should train a student to think for himself and have self-reliance in undertaking new work, as well as give him professional information. The general subjects prescribed are considered of especial importance to a student of applied science.

The tabulated list shows the prescribed subjects and the time given to each. More detailed information may be had from the brief description of each subject, found under "Courses of Instruction."
### University of Maine

#### Requirements for Graduation

**Freshman Year**

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<th>Fall Semester</th>
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<td>English 1b</td>
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**Sophomore Year**

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**Junior Year**

<table>
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<td>Mechanical Engineering 3, 4</td>
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<td>Mechanics 5</td>
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| Total Hours | 152 |
At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, 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 operation 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 in the electrical laboratory has been developed to parallel practical conditions as far as possible and consists essentially of a 20 kilowatt electrical substation converting from a three phase, 60
University of Maine

cycle, 115 volt alternating current system to direct current, by means of rotary converters and belted alternating current motors driving direct current generators. In addition to voltmeters, ammeters, and wattmeters for both direct and alternating current, the equipment includes circuit breakers, various types of transformers, three 7 1-2 kilowatt special autotransformers giving variable pressure for experimental work and voltages for operating two and three phase rotary converters, a self-starting rotary converter, a three phase generator, a three phase revolving field synchronous motor, a three phase variable speed induction motor, a single phase synchronous motor, a single phase self starting induction motor, direct current generators and motors, and laboratory telephone equipment.

Requirements for Graduation

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<th>Subject</th>
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<th>Subject</th>
<th>Hours</th>
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<tr>
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<td>17 2-3</td>
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19 2-3

Sophomore Year

<table>
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### Chemical Engineering

#### JUNIOR YEAR

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**Total** 19 2-3

#### SPRING SEMESTER

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**Total** 17 1-3

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#### SENIOR YEAR

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**Total** 19

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

**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 some knowledge of applied mathematics and of the engineering studies, thus fitting them for positions as chemists or managers of manufacturing plants.
University of Maine

FRESHMAN YEAR

Fall Semester

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Spring Semester

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19 2-3

SOPHOMORE YEAR

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19 1-3

JUNIOR YEAR

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10 1-2

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Department of Instruction

**SENIOR YEAR**

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<td>Electrical Engineering 10a.</td>
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<td>Electrical Engineering 11a.</td>
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**DEPARTMENTS OF INSTRUCTION**

**CHEMISTRY**

Professor McKee; Professor Easley; Mr. Washburn; Mr. Kraybill; Mr. Brann

1. **General Chemistry.**—This course deals with the general principles of the science. Lectures and recitations. *Two hours a week.* Fall semester.
   
   Courses 1, 2, 3 and 4 constitute the first year's work in chemistry and credit is not given unless the four courses are completed.

2. **General Chemistry.**—This course is a continuation of course 1. It is mainly devoted to a study of the metallic elements, their classification, compounds and chemical properties. Lectures and recitations. *Three hours a week.* Spring semester.

3. **Laboratory Chemistry.**—Laboratory work to accompany course 1. *† Four hours a week.* Fall semester.

4. **Laboratory Chemistry.**—A continuation of course 3 to accompany course 2. *† Four hours a week.* Spring semester.


6. **Organic Chemistry.**—The work is principally with the compounds of the aliphatic series. Lectures, recitations, and laboratory work. The text followed is Holleman's Text-book of Organic Chemistry. Orndorff's Laboratory Manual is used for the experimental work. Course 14 must precede this course. *Three hours class room and † four hours laboratory work a week.* Spring semester.
University of Maine

8. Organic Chemistry.—A continuation of course 7. The work is chiefly in the aromatic series. *Three hours a week.* Fall semester.

(In the fall semester of 1910-1911 course 7 will be given as described in the 1908-1909 catalog and in the spring semester course 8 as described in the 1908-1909 catalog and course 7 as described just above.)

9. Gas and Fuel Analysis.—The work consists in the analysis of fuel and flue gases and the determinations of the proximate constituents and heating values of peat, fuel oils and the common coals. † *Four hours a week.* Fall semester.

12. Organic Preparations.—The work consists in the preparation and study of typical organic compounds. † *Six hours a week.* Fall semester.

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

14. Qualitative Analysis.—This course includes the general reactions of the metals and acids with their qualitative separation. The subject is studied from the standpoint of the law of mass action and the ionic theory. † *Six to sixteen hours a week.* Fall semester.

15. Qualitative Analysis.—A continuation of course 14. † *Six hours a week.* Spring semester.

16. Elementary Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric and volumetric methods. The text-book is Lincoln and Walton’s Exercises in Elementary Quantitative Chemical Analysis. Open to students who have had course 14. † *Ten hours a week.* This course is offered each semester.

18. Quantitative Analysis.—Analysis of alloys, minerals, etc. Both gravimetric and volumetric methods are used. Open to students who have taken course 16. † *Eight hours a week.* Fall semester.

19. Special Quantitative Methods. Open to students who have completed course 16. (a) Water analysis. (b) Electroanalysis. (c) assaying. (d) Special volumetric analysis. (e) Organic analysis. (f) Toxicology and urinalysis. Each subdivision requires † *four hours a week.* Work under this course is offered each semester.

22. Thesis Work.—The thesis will embody the result of the study of a special problem in the laboratory. This problem will partake of the nature of original research and will ordinarily require not less than † *ten hours for a semester* for its completion. Spring semester.

23. Advanced Organic Chemistry.—A series of lectures on special topics in organic chemistry. *Three hours a week.* Fall semester.

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 Throp’s Outlines of Industrial Chemistry. *Two hours a week.* Fall semester.
Chemistry


25. *Technical Analysis.*—An advanced course in the analysis of ores and industrial products. Open to students who have completed courses 16 and 18. †*Four hours a week.* Offered each semester.

26. *Physical-Chemical Methods.*—The course will include, determination of molecular weights; the study of solutions through conductivity and other methods; rate of reaction and chemical equilibrium; potential and electromotive force; calorimetry; and the use of the more important instruments such as the refractometer, polariscope, and spectroscope. †*Six hours a week.* Spring semester.

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

29a. *Metallurgy of Iron and Steel.*—The occurrence, methods of extraction, properties and alloys of iron. *Two hours per week.* Fall semester.

29b. *Metallurgy of the Metals other than Iron.*—A course similar to 29a. The metals other than iron and steel are studied. *Two hours a week.* Spring semester.

31. *Chemical Reactions.*—Principles governing chemical reactions; their application to equations; advanced equation writing; oxidation and reduction. The text-book is Prescott and Johnson's *Qualitative Analysis.* *Two hours a week.* Spring semester.

32a. *Physical Chemistry.*—This course is devoted to the study of some of the more important principles and methods of physical chemistry in its several branches. Lectures and recitations. †*Two hours a week.* Fall semester.


33. *Electrochemistry.*—A lecture course on the general principles of the subject and its applications in industrial work. *Two hours a week.* Fall semester.

**Summer Term (Mr. Burgess)**

1. Preparatory Elementary Chemistry, descriptive and experimental, lectures and recitations. Laboratory course covering the work required for entrance to the University.

2. General Inorganic Chemistry, corresponding to work of the freshman year.

3. Advanced courses adapted to the needs of the students registering for them. A Special Teachers' Course will be given, covering methods of teaching chemistry, construction of apparatus, and experimentation, if a sufficient number elect.
University of Maine

CIVIL ENGINEERING

Professor Boardman; Professor Brown; Professor Bean; Mr. Johnstone; Mr. Conner; Mr. Mayo

1a. Plane Surveying.—A course on the general principles of plane surveying; instruments, their adjustments and uses; the variation of the magnetic needle, and the determination of the true north; direct leveling; land survey computations. The text-book used is Breed and Hosmer's The Principles and Practice of Surveying, Vol. I. Three hours a week. Last twelve weeks. Fall semester.

1b. Plane Surveying.—A course similar to 1a, given to students in the mechanical and electrical engineering courses. Two hours a week. Fall semester.

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

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

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

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

3b. Earthwork.—A continuation of course 3a on the methods of setting slope stakes and of calculating earthwork. Three hours a week. First six weeks. Fall semester.

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

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

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

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

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

8. Sanitary Engineering—Sewerage systems; drainage and sewerage of towns; sewage disposal; sewage treatment; water purification; sanitation and the public health. Required of students electing Option 1. Two hours a week. Spring semester.

9a. Advanced Surveying.—This course consists of lectures and readings on the theory of base line measurement, triangulation, precise leveling, topographical surveying, and the use of the plane table, and is a preparation for course 9b. The text-book is Breed and Hosmer’s The Principles and Practice of Surveying, Vol. II. One hour a week. Spring semester.

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

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

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

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

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

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

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


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


19. **Railroad Engineering.—** Lectures and recitations on the methods and materials of railroad construction. Subgrade; roadbed; trestles; culverts; track; street crossings; yards and terminals, signals and interlocking; track work and maintenance. The text-book used is Wilson's "Elements of Railroad Track and Construction." Required of students electing Option 2. *Two hours a week.* Spring semester.

20. **Masonry Construction.—** A course including the discussion of building stone, cements and their tests, mortar, concrete, piles, foundations, pneumatic caissons, open caissons, bridge piers, and abutments. Reinforced concrete. Lectures and recitations. The text-books used are Baker's Treatise on Masonry Construction and Maurer and Turnearue's Principles of Reinforced Concrete Construction. *Two hours a week.* Fall semester.
21. **Structures.**—The theory of the simple beam; loads; reactions; vertical shear; shear; bending moment; influence lines. The object of this course is to give the student a drill in finding vertical shear and bending moment under different systems of loadings, and to familiarize him with the use of steel hand books, the moment diagram, different tables, and the slide rule. The text-book used is Grover and Boardman’s Notes on Beams and Simple Framed Structures. *Two hours a week.* Spring semester.

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

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

24. **Railroad Engineering.**—A map reconnaissance for a railroad about ten to fifteen miles in length, where the theories of course 25 are applied. A profile is made, grades established and drainage areas calculated. Culverts, rails, switch points, frogs, and ties are designed, and the layout of a railroad yard made. Required of students electing Option 2. *Six hours a week.* Spring semester.

25a. **Railroad Engineering.**—A course discussing the economics of railroad location and operation. Traffic: operating expenses; the locomotive and its work; distance; grades; curves. The text-book used is Raymond’s “Elements of Railroad Engineering.” Required of students electing Option 2. *Two hours a week.* Fall semester.


26. **Cement Testing.**—This course consists of laboratory work for the purpose of making the regulation commercial tests upon different samples of cement. A laboratory fee sufficient to cover the cost of materials used is charged. This course is given in conjunction with Mechanical Engineering 25, Testing, and is required of students in mechanical engineering in the fall semester and of students in civil engineering in the spring semester. *The time varies.*
and problems. Required of juniors in electrical engineering. *Two hours a week.* Fall semester.

1b. **Elements of Electrical Engineering.**—A continuation of course 1a, showing the application of fundamental principles to the construction of electrical machinery and to general engineering problems. Required of juniors in electrical engineering. *Three hours a week.* Spring semester.

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 1a and 1b. Required of juniors in electrical engineering. The charge for this course is $2.00. *Two hours a week.* Spring semester.

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. Required of seniors in electrical engineering. *Three hours a week.* Fall semester.

3b. **Alternating Current Machinery.**—A continuation of course 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. Required of seniors in electrical engineering. *Four hours a week for the first nine weeks.* Spring semester.

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. Required of seniors in electrical engineering. *Three hours a week.* Fall semester.

4b. **Reference Work.**—Special subjects are assigned to each student, which he investigates with the aid of library books and current literature, and he presents the results of such investigation to the class. Also the discussion of the design and construction of electrical instruments and special forms of apparatus of interest in scientific development, and of possible practical application. Required of seniors in electrical engineering. *One hour a week.* Spring semester.

5a. **Design of Electrical Machinery.**—This course is given in the drawing room, and is the practical application of the work in course 4a. Calculations are made for electro-magnetic devices, and for direct cur-
rent 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. Required of seniors in electrical engineering. †Four hours a week. Fall semester.

5b. Design of Direct and Alternating Current Machinery.—A continuation of course 5a. Drawing room work. Required of seniors in electrical engineering. †Four hours a week for thirteen weeks. Spring semester.

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

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

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. Required of seniors in electrical engineering. Four hours a week, last nine weeks. Spring semester.

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. Required of seniors in electrical engineering. Sixty-four hours during the senior year.

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. Required of seniors in electrical engineering. Fall semester and through the senior year, as arranged.

13b. Electric Railway Engineering.—A study of the preliminary steps taken in electric railway engineering. The selection of the proper
motor equipment for a given class of service. Car, bond, and transmission testing. An elective course open to seniors in electrical engineering. Two hours a week. Spring semester.

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. Required of seniors in mechanical engineering. Three hours a week. Fall semester.

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

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 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 6a and 6b, by those wishing to become familiar with alternating current machinery. Required of seniors in mechanical engineering. The charge for this course is $3.00. Four hours a week. Fall semester.

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

MATHEMATICS

The courses in this department are described under the College of Arts and Sciences.

MECHANICAL ENGINEERING

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

11a. Woodworking.—A number of graded exercises in woodworking designed to give the student familiarity with the tools used in modern woodworking practice, and also teach him to work from dimensioned drawings. These exercises lead up to pattern-making. The pattern
work consists of making complete patterns and core boxes from drawings. Required of students in mechanical engineering. Charge for materials, $4.00. *Six hours a week. Fall semester.

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

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

3. **Kinematic Drawing.**—This course supplements 4. The drawings are of cams and gear teeth and graphical studies of kinematic problems. Required of students in mechanical engineering. *Four hours a week. Fall semester.

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

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

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

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

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 valve mechanisms. The Zeuner, Bilgram, and other valve-diagrams are made use of in this connection. Practical problems are solved in the drawing room. Required of students in mechanical engineering. *Two hours a week. Spring semester.

University of Maine

9. **Materials of Engineering.**—Properties of the metals, timber, hemp rope, etc. Protective coatings and preservatives. Required of students in mechanical engineering. *Two hours a week.* Fall semester.


11. **Thermodynamics.**—The fundamental theories relating to the steam engine and other heat engines. Steam calorimeters, injectors, compressors and refrigerating machinery included. Required of students in mechanical and electrical engineering. Course 15 is a prerequisite. *Three hours a week.* Fall semester.

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

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

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

15b. **Mechanical Laboratory.**—Tests of materials, hydraulic testing, injectors, use of calorimeters, etc. Required of seniors in mechanical engineering. The charge for the course is $2.00. *Two hours a week.* Fall semester.

15c. **Mechanical Laboratory.**—Tests of steam engines and boilers, gasoline engines, etc. Required of seniors in mechanical engineering. The charge for the course is $2.00. *Four hours a week.* Spring semester.

16. **Steam Engineering.**—A continuation of courses 10 and 11, indicating the connection between theory and practice in steam engines, steam turbines, air compressors, refrigerating machines, and gas engines. Considerations affecting the design and efficiency of operation of heat motors. Required of students in mechanical engineering. *Two hours a week.* Spring semester.

17. **Steam Engine Design.**—A study of problems affecting the design of the steam engine with regard to their bearing on general
MECHANICS AND DRAWING

Professor Weston; Professor Grover; Mr. Farnham

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. *Six hours a week. Fall semester.

University of Maine

3. Drawing.—The elementary principles and problems of descriptive geometry including intersections and developments. *Six hours a week. Fall semester.

4. Drawing.—A continued study of the methods of projections 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. *Six hours a week. Spring semester.

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-books are Maurer's Technical Mechanics, Hancock's Applied Mechanics, and Merriman's Mechanics of Materials. Five hours a week. Fall semester.


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


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. *Six hours a week. Fall semester.

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 177.

PHYSICAL TRAINING

The courses in this department are described on page 178.

PHYSICS

The courses in this department are described under the College of Arts and Sciences.
College of Pharmacy

COLLEGE OF PHARMACY

FACULTY OF INSTRUCTION

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

JAMES NORRIS HART, C. E., M. S., Sc. D.  
Professor of Mathematics and Astronomy and Dean of the University

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

FREMONT LINCOLN RUSSELL, B. S., V. S.  
Professor of Bacteriology and Veterinary Science

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

GILMAN ARTHUR DREW, Ph. D.  
Professor of Biology

WILBUR FISK JACKMAN, B. S., Ph. C.  
Professor of Pharmacy

RALPH KNEELAND JONES, B. S.  
Librarian

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

ROLAND PALMER GRAY, M. A.  
Professor of English

Ralph Harper McKee, Ph. D.  
Professor of Chemistry

GUY ANDREW THOMPSON, M. A.  
Professor of English

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

CHARLES ALBERT VARNUM, Lieutenant-Colonel, U. S. A.  
Professor of Military Science and Tactics

CHARLES WILSON EASLEY, Ph. D.  
Associate Professor of Chemistry

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

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

LEON ELMER WOODMAN, M. A.  
Assistant Professor of Physics

WINDSOR PRATT DAGGETT, Ph. B.  
Professor of Public Speaking

* Absent on leave.

CHARLES PRESTON WEAVER, M. A.  
Assistant Professor of English

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University of Maine

WALTER EVERETT PRINCE, M. A.  
Instructor in English
WILLIS FLYE WASHBURN, B. S.  
Instructor in Chemistry
LOWELL JACOB REED, B. S.  
Instructor in Mathematics
GEORGE EDWARD PEARSON, M. A.  
Instructor in English
HARRY NEWTON CONSER, M. S., M. A.  
Instructor in Botany
BERTRAND FRENCH BRANN, B. S.  
Instructor in Chemistry
GEORGE ALVIN SCOTT, B. S. in E. E.  
Instructor in Physics
BENJAMIN ENGLE KRAYBILL, B. S.  
Instructor in Industrial Chemistry
SHERMAN DANIEL CHAMBERS, B. S.  
Instructor in Mathematics
TRUMAN LEIGH HAMILIN, M. A.  
Instructor in Mathematics
WALTER EDMOND WILBUR, B. S.  
Instructor in Mathematics
ALICE MIDDLETON BORING, A. M.  
Instructor in Zoology
ERNEST CLAUDE DREW, 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, make it increasingly necessary to his success that he be not only a well trained man in the technical branches but an educated man in the broadest sense.

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

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

Requirements for Graduation

Freshman Year

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<th>Subject</th>
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<tbody>
<tr>
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Sophomore Year

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Junior Year

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<tr>
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<td>Botany 3</td>
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<table>
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<tr>
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<td>Chemistry 19, †12</td>
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<td>Chemistry 31</td>
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<tr>
<td>Bacteriology 1, †6</td>
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<td>Pharmacy 6</td>
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### University of Maine

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Subject</th>
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</table>

From courses in History, Philosophy, and Economics 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 additional year's prescribed work in residence, including the presentation of a satisfactory thesis, 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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Freshman Year</th>
<th>Hours</th>
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<th>Freshman Year</th>
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<td>17</td>
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Pharmacy

SOPHOMORE YEAR

Fall Semester

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Spring Semester

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<td>Pharmacy 9, †3</td>
<td>1 1-2</td>
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<tr>
<td>Pharmacy 10, †10</td>
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<tr>
<td>Pharmacy 11</td>
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<tr>
<td>Bacteriology 1, †6</td>
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<td><strong>20 1-2</strong></td>
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</tbody>
</table>

Students who complete this course in a satisfactory manner receive the degree of Pharmaceutical Chemist.

DEPARTMENTS OF INSTRUCTION

BOTANY

The courses in this department are described under the College of Arts and Sciences.

CHEMISTRY

The courses in this department are described under the College of Technology.

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 177.

PHARMACY

Professor Jackman

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

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 semester.

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University of Maine

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

4. PHARMACOPEIA.—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 semester.

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

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

7. MATERIA MEDICA.—Chemicals and drugs; their nature, uses, classification, therapeutic action, and doses; poisons, and antidotes. The text-book is Potter's Materia Medica. Three hours a week. Fall semester.

9. PHARMACY READINGS.—Current pharmacy literature; research and reference readings; abstracting; reports. †Three or five hours a week. Spring semester.

10. LABORATORY PHARMACY.—A continuation of course 3. †Ten hours a week. Spring semester.

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

PHYSICAL TRAINING

The courses in this department are described on page 178.
University of Maine

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.*

4. Military, Fourth Year's Course.
   (a) Practical:
       The same as for course 3 (a).
   (b) Theoretical:
       Assistant instructors over those taking course 2 (b).

Open to all who have completed course 3. All will be officers. *Five hours, or the equivalent, a week, counting one credit.*

PHYSICAL TRAINING

Professor Grover (Acting Instructor)

1. Physical Training—Class formation and figure marching; setting-up drills; free-arm and calisthenics movements; elementary dumbbell, wand, and apparatus exercises. *Two hours a week.* Fall semester.

2. Physical Training.—Intermediate and advanced class exercises and combination apparatus work. *Two hours a week.* Spring semester.
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

EDGAR MYRICK SIMPSON, B. A.
Assistant Professor of Real Property and Evidence

GEORGE HENRY WORSTER, LL. M.
Instructor in Law

BARTLETT BROOKS, B. A., LL. B.
Instructor in Contracts and Negotiable Paper

FOREST JOHN MARTIN, LL. B.
Resident Lecturer on Common Law Pleading and Maine Practice

CHARLES HAMLIN, M. A., LL. D.
Resident Lecturer on Equity Pleading and Practice

LUCILIUS ALONZO EMERY, M. A., LL. D.
Lecturer on Bankruptcy and Federal Procedure

LOUIS CARVER SOUTHARD, LL. D.
Lecturer on Roman Law and Probate Law

EDWARD HARWARD BLAKE, LL. B.
Lecturer on Admiralty Law

RALPH KNEELAND JONES, B. S.
Librarian

LEIGH IRVING HARVEY
Stenographer

GENERAL INFORMATION

The College of Law was opened to students in 1898. It occupies since the beginning of 1908 the entire sixth story of the Exchange building, at the corner of State and Exchange streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily 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
University of Maine

Law and Chancery Reports, the American Decisions, American Reports, American State Reports, the Complete Reporter System, the Century Digest, the Lawyers' Reports Annotated, all the Law Encyclopedias, and a considerable number of text-books, as also the English Reports, full verbatim reprint.

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. 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
Law

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.
University of Maine

COURSES OF INSTRUCTION

1. Admiralty.—A course of lectures. One hour a week. Spring term. Mr. Blake.
2. Bankruptcy.—Lectures. Two hours a week. Winter term. General Hamlin.
5. Common Law Pleading.—Lectures. Two hours a week. Winter term. Mr. Martin.
8. Constitutional Law.—Boyd's Cases. Two hours a week. Spring term. Mr. Worster.
9. Contracts.—Keener's Cases on Contracts. Four hours a week. Fall term. Mr. Brooks.
14. Damages.—Beale's Cases on Damages. Three hours a week. Winter term. Mr. Worster.
15. Domestic Relations.—Smith's Cases on Persons. Three hours a week. Fall term. Professor Simpson.
16. Equity Jurisprudence.—Bispham on Equity Jurisprudence and Shepard's Cases on Equity. Four hours a week. Fall term. Professor Walz.
18. Equity Pleading.—Lectures. Two hours a week. Winter term. Mr. ————
19. Evidence.—Thayer's Cases. Four hours a week. Fall term. Professor Simpson.
   Winter term. Professor Simpson.
   Mr. ———
22. Executors and Administrators.—Lectures. *One hour a week.*
   Spring term. Professor Simpson.
   Professor Walz.
   Fall term. Professor Walz.
   Professor Walz.
   Professor Walz.
27. History of Law.—Lectures. *One hour a week.* Fall term.
   Professor Walz.
   Mr. Worster.
29. International Law.—Lectures. *One hour a week.* Fall term.
   Professor Walz.
   Mr. Martin.
   Mr. Southard.
32. Municipal Corporations.—Smith's Cases. *Three hours a week.*
   Winter term. Professor Walz.
   Mr. Brooks.
34. Negotiable Paper.—A continuation of course 33. *Three hours a week.*
   Spring term. Mr. Brooks.
35. Partnership.—Ames’s Cases. *Four hours a week.* Spring term.
   Professor Walz.
36. Private Corporations.—Smith’s Cases. *Four hours a week.* Fall term.
   Mr. Worster.
   Mr. Chief Justice Emery.
39. Real Property.—Tiedeman on Real Property. *Four hours a week.*
   Fall term. Professor Simpson.
University of Maine


43. **Sales.**—Burđick's Cases. *Two hours a week*. Fall term. Mr. Worster.

44. **Sales.**—A continuation of course 43. *Two hours a week*. Winter term. Mr. Worster.

45. **Suretyship.**—Ames's Cases. *Two hours a week*. Fall term. Mr. Worster.

46. **Suretyship.**—A continuation of course 45. *Two hours a week*. Winter term. Mr. Worster.

47. **Torts.**—Ames and Smith's Cases. *Four hours a week*. Fall term. Professor Walz.


49. **Torts.**—A continuation of course 48. *Two hours a week*. Spring term. Professor Walz.


THE MAINE AGRICULTURAL EXPERIMENT STATION

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

THE STATION STAFF.

ADMINISTRATION

CHARLES D. WOODS, Sc. D.          Director
HARRY M. WOODS, A. B. Asst. to the Director
BLANCHE F. POOLER                      Stenographer
RALPH K. JONES, B. S.
CHARLES J. DUNN
GRACE M. COLBURN
RAYMOND PEARL, Ph. D
FRANK M. SURFACE, Ph. D.

BIOLOGY

MAYNIE R. CURTIS, A. M
WALTER ANDERSON
LOTTIE E. McPHERTERS
JAMES M. BARTLETT, M. S.

CHEMISTRY

HERMAN H. HANSON, M. S.
JOSEPH F. MERRILL, B. S.
ALBERT G. DURGIN, M. S.
EDITH M. PATCH, B. S.

ENTOMOLOGY

OSKAR A. JOHANNSEN, Ph. D          Associate

HORTICULTURE

WALTER W. BONNS, B. S.          Associate

PLANT

WARNER J. MORSE, M. S          Pathologist

PATHOLOGY

CHARLES E. LEWIS, Ph. D          Associate
JOHN SUMMERS          Laboratory Assistant

HIGHMOOR FARM

WELLINGTON SINCLAIR          Superintendent

ROYDEN L. HAMMOND                     Seed Analyst and Photographer
HENRY A. MILLETT          Meteorological Observer and Janitor

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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 the 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 7) 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 1909-1910 is about $43,500; $15,000 of which comes from the Hatch fund; $13,000 from the Adams fund; $9,000 from State appropriations for feeding stuff inspection, fertilizer inspection, food and drug inspection and seed inspection; $4,500 from State appropriation for printing; $1,000 from the United States Department of Agriculture for carrying on cooperative 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
Experiment Station

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.”

The work that the Experiment Station can undertake from the Adams
Act fund is more restricted and can “be applied only to paying the neces-
sary expenses of conducting original researches or experiments bearing
directly on the agricultural industry of the United States, having due
regard to the varying conditions and needs of the respective states and
territories.”

Any resident of Maine concerned in agriculture has the right to apply
to the Station for any assistance that comes within its province.

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall,
described on page 26. The Station is well equipped in laboratories
and apparatus, particularly in the lines of chemical, entomological, horti-
cultural, 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.

By act of Legislature, 1929, $10,000 was appropriated by the State
for the purchase of a farm for experimental work by the Station in
orcharding, corn, and other field experiments. The farm selected is in
Monmouth. It contains 225 acres and is well provided with buildings
and apple orchards.

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 thor-
oughly a few problems than to spread over the whole field of agricultural
science. It has continued to improve its facilities and segregate its work
in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, orchard and field experiments, poultry investigations, and entomological research. Some of these are in co-operation with bureaus of the United States Department of Agriculture. Field experiments with crops and orchards are carried on, in the parts of the State where the crop in question is a leading industry on private land in co-operation with the owners.

INSPECTIONS

The inspection of food and drugs, the inspection of fertilizers, the inspection of concentrated commercial feeding stuffs, the inspection of agricultural seeds, and the testing of the graduated glassware used in creameries, are entrusted to the Station through its director, who is responsible for the execution of the public laws relating to these matters. The cost of the fertilizer inspection is borne by a brand tax, that of the feeding stuff, food and drugs, and seed inspections by a State appropriation, and that of chemical glassware by a charge for calibration.

DISSEMINATION OF INFORMATION

The Station publishes the account of its work in bulletin form. The bulletins for a year form a volume of about 250 pages and make up the annual report. Bulletins which contain matter of immediate value to practical agriculture are sent free of cost to the entire mailing list of the Station. On request, the name of any resident of Maine will be placed on the mailing list.

Newspaper bulletins on special topics are published from time to time as occasion demands. These are very generally printed by the press of the State and the agricultural papers of the country.

PUBLICATIONS

The Station issues three series of publications: Bulletins; Official Inspections and Miscellaneous Publications.

The results of the work of investigation are printed as Bulletins. The Bulletins for a year form a volume of 300 to 400 pages and together make up the annual report. Bulletins are sent to the press of the State, to exchanges, libraries and scientific workers. Bulletins which contain matter of immediate value to practical agriculture are sent to farmers whose names are on the permanent mailing list.
Experiment Station

The results of the work of inspection are printed in pamphlet form and are termed Official Inspections. About twelve such pamphlets, aggregating 150 to 200 pages, are printed annually and are bound as an appendix with the annual report. Official Inspections are sent to dealers within the State; those that have to do with fertilizers, feeding stuffs and seeds are sent to farmers, and those reporting food and drugs are sent to a list of several thousand women within the State.

The Miscellaneous Publications consist of newspaper bulletins, circulars and similar fleeting publications. From 20 to 30 are published each year and are sent to different addresses according to the nature of the subject matter.

On request the name of any resident of Maine will be placed on the permanent mailing list to receive either or both the Bulletins and Official Inspections as they are published.
University of Maine

COMMENCEMENT

The Commencement exercises of 1909 were as follows:
Monday, June 7: University Convocation, including reports of departments and student enterprises, and the awarding of prizes; Class Day exercises; President's Reception.
Tuesday, June 8: Receptions by the various fraternities; Alumni Luncheon; Alumnae Luncheon; Phi Kappa Phi Initiation.
Wednesday, June 9: Commencement Address by Professor Bliss Perry, L. H. D., LL. D., of Harvard University; Commencement Dinner; Business Meeting of the Alumni Association; Commencement Ball.

DEGREES CONFERRED

COLLEGE OF AGRICULTURE
George Thomas Carlisle, Jr., B. S. in Forestry........North Edgecomb
Bernard Albert Chandler, B. S. in Forestry........New Gloucester
Winfield Alfred Kimball, B. S. in Forestry..................Norway
Edward Watts Morton, B. S. in Agriculture...............Kennebunk
Lewis Freeman Pike, B. S. in Forestry..................Milton, N. H.
Benjamin Lewis Roberts, B. S. in Forestry............Bangor
Thomas Franklin Shatney, B. S. in Forestry............Orono
Harry Woodbury Smith, B. S. in Agriculture...........Sangerville
Everett Frost Southwick, B. S. in Agriculture.......Peabody, Mass.

COLLEGE OF ARTS AND SCIENCES
DaCosta FitzMaurice Bennet, B. A. (Economics)............Lubec
Edgar Frederick Callahan, B. A. (Education)............Orono
Florence Polleys Chase, B. A. (Romance Languages).....Baring
Mary Ella Chase, B. A. (History)............................Bluehill
Cecil C. Farrar, B. A. (Latin)..............................Guilford
Frederick William Foote, B. A. (Philosophy).............Milbridge
Degrees Conferred

Joe Warren Gerrity, B. S. (Economics) .................................................Bangor
William Henry Gilbert, B. A. (Economics) ........................................South Glastonbury, Conn.
Merton Taylor Goodrich, B. S. (Mathematics) ........................................Bingham
Willis Nathan Haines, B. A. (Romance Languages) ..............................Dexter
Mattie Grover Knight, B. S. (Biology) ................................................Deer Isle
Chase McArthur, B. S. (Germanic Languages) .................................Milltown
George Valentine Nauman, B. S. (Economics) .................................Fortland
Frederick Palladino, B. A. (Philosophy) [Ph. B., Taylor University, 1897] .................................................................Bangor
Irene Clara Richardson, B. A. (Romance Languages) .........................Old Town
Kenneth Albert Rollins, B. A. (Economics) ........................................Farmington
Christine Myrtle Shaw, B. A. (Latin) ..................................................Orono
Cora May Shaw, B. A. (Mathematics) ................................................Orono
Dexter Southworth Johnson Smith, B. S. (Economics) ........................Bangor
Harry Edward Sutton, B. S. (History) .................................................Orono
George Roy Sweetser, B. S. (Economics) ........................................Hampden
Deane Stanley Thomas, B. S. (Economics) ..........................................Yarmouthville
James Woodbury Tripp, B. A. (Philosophy) ......................................Orrington
Francis George Wadsworth, B. S. (Education) ................................Sanford
Harry Morgan Woods, B. A. (Mathematics) ......................................Orono

College of Pharmacy

Edward Earle Gardner, B. S. in Pharmacy .............................................East Machias
Lester Alonzo Barker, Ph. C ...............................................................Island Falls
Orrin Linwood Miller, Ph. C ..............................................................Carmel
Roy Edward Mann, Ph. C .................................................................Van Buren
Howard Newton Sewall, Ph. C ...........................................................York Village

College of Technology

William Milgate Black, B. S. in Civil Engineering ..............................Belfast
Harold Melville Bowman, B. S. in Mechanical Engineering..............Salmon Falls, N. H.
Bertrand French Brann, B. S. in Chemistry ........................................Bangor
Warren Alfred Carter, B. S. in Chemistry .........................................Nobleboro
Warren Edward Conner, B. S. in Civil Engineering ................................Auburn
Freston Llewellyn Corson, B. S. in Electrical Engineering ..................Wilton
Frederick Sutherland Cram, B. S. in Civil Engineering .......................Brunswick
Cyrus Hersey Davis, B. S. in Electrical Engineering ..........................Woodfords
George Percy Deering, B. S. in Civil Engineering ............................Winslow's Mills
Harold Frederick Eddy, B. S. in Electrical Engineering .................Bangor
University of Maine

Walter Lee Emerson, B. S. in Civil Engineering..............Lewiston
Chester Arthur Estey, B. S. in Electrical Engineering........Lisbon Falls
Howard Lovering Farwell, B. S. in Mechanical Engineering

Dorchester, Mass.

Edward Joseph Finnigan, B. S. in Civil Engineering..........Bangor
William Andrew Fogler, B. S. in Electrical Engineering...West Rockport
Harold Daniel Haggett, B. S. in Civil Engineering.........Bath
Earle Wilmer Hall, B. S. in Electrical Engineering.....Farmington
Philip Winthrop Ham, B. S. in Civil Engineering........Livermore Falls
Walter Ora Harvey, B. S. in Mechanical Engineering......Kenduskeag
Ralph Morton Henry, B. S. in Electrical Engineering..Cumberland Mills
Harrison Parker Higgins, B. S. in Mechanical Engineering

Somerville, Mass.

Carl Russell Holton, B. S. in Civil Engineering.........Boothbay Harbor
Ralph Lysander Jackson, B. S. in Civil Engineering......Jefferson
Howard Rich Johnson, B. S. in Electrical Engineering..South Portland
Frederick Daniel Knight, B. S. in Electrical Engineering...Limerick
Joseph Philip Littlefield, B. S. in Electrical Engineering..Ogunquit
Joseph Walter McElroy, B. S. in Mechanical Engineering

Manchester, N. H.

Daniel Wallace MacLean, B. S. in Electrical Engineering....Eastport
Jesse Ham Mason, B. S. in Chemistry......................Beverly, Mass.
Norman Haskell Mayo, B. S. in Civil Engineering..........Bluehill
Merle Eli Merriman, B. S. in Mechanical Engineering.....Portland
Harold Redmere Miller, B. S. in Electrical Engineering..South Berwick
Percy Patrick Mooney, B. S. in Electrical Engineering.....Bangor
Irving Hartwell Moore, B. S. in Electrical Engineering.....Readfield
Harry Edwin Morrell, B. S. in Civil Engineering..........Lewiston
Robley Howe Morrison, B. S. in Chemistry..................Norway
Henry Leighton Nash, B. S. in Electrical Engineering......Cherryfield
Arthur Francisco Neal, B. S. in Civil Engineering......North Berwick
Charles Brooks Paine, B. S. in Civil Engineering..........Eastport
Horace Albion Parker, B. S. in Civil Engineering......Livermore Falls
Alfred Bassett Patterson, B. S. in Mechanical Engineering....Winslow
Herbert Tracey Pettigrew, B. S. in Civil Engineering....East Machias
Howard Grenville Philbrook, B. S., in Electrical Engineering

Shelburne, N. H.

Clinton Alley Plumly, B. S. in Civil Engineering............Lincoln
Elmer Onsville Pray, B. S. in Civil Engineering.............Kittery
James William Randall, B. S. in Civil Engineering........Freeport
Harold Arthur Rich, B. S. in Mechanical Engineering.......Bangor
Degrees Conferred

Frank Cummings Richardson, B. S. in Civil Engineering...Jefferson
Reginald Elton Robinson, B. S. in Mechanical Engineering...Oxford
George Lewis Smith, B. S. in Mechanical Engineering...Long Cove
Wilbur Olin Smith, B. S. in Mechanical Engineering...Peabody, Mass.
Thomas Cary Wescott, B. S. in Civil Engineering...........Patten
Guy Ellicott Torrey, B. S. in Civil Engineering...........Deer Isle
Elton LaForrest Towle, B. S. in Mechanical Engineering...Portland
Harry Alfred White, B. S. in Civil Engineering...........Lynn, Mass.
Guy Herbert Williams, B. S. in Civil Engineering...Manchester, N. H.

College of Law

Albert Edward Andersen, LL. B.................................Portland
Hiram John Archer, LL. B..............................................Boston, Mass.
Edward William Bridgham, LL. B..............................Bridgton
Arthur Jean Baptiste Cartier, LL. B .........................Biddeford
Harry Robertson Elder, LL. B........................................Chicopee Falls, Mass.
Reginald Fitz-Randolph, LL. B.................................Boulder, Colo.
William Clayton Fraser, LL. B.....................................Taunton, Mass.
Thomas Francis Gallagher, LL. B..............................Bangor
Harold Isaac Goss, LL. B.............................................Berwick
James Francis Kiernan, LL. B......................................Wareham, Mass.
Seth May, LL. B............................................................Auburn
James Blenn Ferkins, LL. B., [B. A., Bowdoin College, 1903]
Boothbay Harbor

Thomas Andrew Sanders, LL. B.................................Sangerville
Cyrus Fremont Small, LL. B........................................Caribou
Forrest Belmont Snow, LL. B.....................................Bluehill
William Marston Weeks, LL. B. [B. D., Yale University, 1896; LL. B. Cumberland University, 1908].................Lebanon, Tenn.

Advanced Degrees

Honorary
Charles Hamlin, LL. D.............................................Bangor
Prescott Keyes, M. S....................................................Westbrook
Ora Willis Knight, Sc. D...........................................Bangor

In Course

Master of Arts

Ethel Godfrey, B. L. [Smith College], 1901 (English).........Bangor
Warren Morse, B. A., 1907 (English)............................Brewer
Frances May Pol, B. A. [Smith College], 1906 (English).....Bangor
University of Maine

Master of Science
Robert Edmund Clayton, B. S., 1907 (Chemistry) .......... Bangor
Jonna Carver Colcord, B. S., 1906 (Chemistry) ............... Searsport
Albert Guy Durgin, B. S., 1908 (Chemistry) ....................... Orono
Albert William Stevens, B. S. in Electrical Engineering, 1907
(Electrical Engineering) ........................................ Belfast
Willis Flye Washburn, B. S., 1907 (Chemistry) ............... Orono

Master of Laws
Harry McDonald Nolan, LL. B., 1908 ............... Haverhill, Mass.

Civil Engineer
Oscar Llewellyn Grover, B. C. E., 1897 ............... Richmond, Va.
Robert Franklin Olds, B. S. in Civil Engineering, 1906 .......... Portland
John Herman Quimby, B. S. in Civil Engineering, 1904. New York, N. Y.

Electrical Engineer
Herbert Walter Bachelder, B. S. in Electrical Engineering, 1905
Schenectady, N. Y.

Mechanical Engineer
Caleb Hartwell Johnson, B. S., in Mechanical Engineering, 1906
Nahant, Mass.

Certificates in the School Course in Agriculture
Irving Willard Bates ........................................... Biddeford
John Howard Dow ............................................. Castle Hill
Robert Burton Harris .......................................... Portland
Ernest Cousins Leach ......................................... East Eddington
Harry Monroe Look ........................................... Jonesboro

Prizes Awarded
The various prizes were awarded as follows:
The Kidder Scholarship to Fred Enoch Fish, Farmington.
The Western Alumni Association Scholarship, to Carrie Luella Woodman, Claremont, N. H.
The New York Alumni Association Scholarship, to Frank Elwyn Southard, Lewiston.
The Junior Exhibition Prize, to Francis George Wadsworth, Sanford.
The Sophomore Declamation Prize, to Harold Grinnell Wood, Hallowell.

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Prizes

The Franklin Danforth Prize, to Ernest Frost Southwick, Peabody, Mass.
The Fittsburg Alumni Association Scholarship, to Walter Scott Merrill, Skowhegan.
The Kennebec County Prize, to Wilbur Olin Smith, Peabody, Mass., and Frederick Daniel Knight, Limerick.
The Pharmacy Prize, to Lester Alonzo Barker, Island Falls.
The Holt Prizes, to William Milgate Black, Belfast, Warren Alfred Carter, Nobleboro, and Harold Redmen Miller, South Berwick.
The Honorable E. B. Winslow Prize, to Albert Whiting Doolittle, Hackensack, N. J.
The Walter Balentine Prize, to Roby Perkins Littlefield, Ogunquit.
The Gilbert M. Gowell Prize, established by Perley Fiske Skofield, ’08, to William Ernest Schrumpt, Farmington, and George Newton Warden, Vanceboro.
The Skofield Prizes, to George Jacob Wentworth, Kennebunk, for fruit judging, and to Leonard Ramsdell Hartill, Brunswick, for fruit packing.
The General Hamlin Prize will be awarded at Commencement, 1910.
The Highest Standing obtained by a member of the class of 1909 for the four years’ course was made by Bertrand French Brann, Bangor.
University of Maine

APPOINTMENTS

Speakers at the Junior Exhibition, May 19, 1909.

Vaughn Russell Chadbourne, Mattawamkeag; Franklin Williams Petty, Fall River, Mass.; Isaac Maxwell Stover, Orono; Francis George Wadsworth, Sanford.

Speakers at the Sophomore Prize Declamation Contest, December 4, 1908

Frederick Lincoln Chenery, Jr., Wayne; Ralph Benjamin Pond, Bangor; Frank Elwyn Southard, Lewiston; Merton Rogers Sumner, South Paris; Sumner Waite, Portland; Oscar Abel Wakefield, Lisbon; Benjamin Otis Warren, Fryeburg; Harold Grinnell Wood, Hallowell.

Members of the Phi Kappa Phi

Bertrand French Brann, Bangor; Walter Lee Emerson, Lewiston; William Andrew Fogler, West Rockport; Howard Rich Johnson, South Portland; Frederick Daniel Knight, Limerick; James Blenn Perkins, Boothbay Harbor; Harold Arthur Rich, Bangor; Cora May Shaw, Orono; Forrest Belmont Snow, Bluehill; George Roy Sweetser, Hampden; Elton La Forest Towle, Portland; Dwight Woodbury, Beverly, Mass.

Seniors Receiving General Honors

Bertrand French Brann, Bangor; Walter Lee Emerson, Lewiston; William Andrew Fogler, West Rockport; Howard Rich Johnson, South Portland; Frederick Daniel Knight, Limerick; Harold Arthur Rich, Bangor; Cora May Shaw, Orono; Elton La Forest Towle, Portland.

From the College of Law

James Blenn Perkins, Boothbay Harbor; Forrest Belmont Snow, Bluehill.

Reported to the Secretary of War for Publication in the Next United States Army Register as the Most Distinguished Students in the Military Department

Cadet Corps

OFFICERS OF THE CADET CORPS

FIELD AND STAFF
Major—George Edwin Springer
Captain and Adjutant—John Neal Philbrook
Captain and Quartermaster—Fred Everett Wiley
Battalion Quartermaster Sargeant—Cyrus William Murphy, Jr.

COMPANY A.
Captain George Arthur Wakefield
First Lieutenant William Rice Ballou
Second Lieutenant Benjamin Haskell
Second Lieutenant Graham Brown Spear
First Sergeant Walter Remick Witham
Quartermaster Sergeant Sherman Leslie Quimby
Sergeant William Leroy Fletcher
Sergeant Morrill Stuart Pope
Sergeant John Winchester Carey
Corporal Clifton Edward Chandler
Corporal Richard Anderson Power

COMPANY B.
Captain Harold Williams Wright
First Lieutenant Benjamin Calvin Kent
Second Lieutenant Henry Wey Chapman
Second Lieutenant William Hale Sawtelle
First Sergeant Clifford Henry George
Company Quartermaster Sergeant Charles Warren Underhill
Sergeant Forrest Bertram Ames
Sergeant Elwood Whitney Jennison
Corporal Carroll Prescott Harrington
Corporal Royden Henry Harriman
Corporal Gilbert Gould Sanborn
Corporal Winfield Wenno Sawyer

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Company C.

Captain
First Lieutenant
Second Lieutenant
First Sergeant
Company Quartermaster Sergeant
Sergeant
Sergeant
Sergeant
Corporal
Corporal
Corporal
Corporal

Ashton Halsted Hart
Harold Clark Faulkner
Robert Clifford Henry Reid
James Plummer Poole
Walter Bradbury Emerson
Enos Boise Lewis
Allen Ernest Sederquest
Harry Ernest Thompson
William Hammond Merrill
William Johnstone Mitchell
Robert Arthur Pinkham
Ernest Thompson Savage
Edward Gordon Weston
CATALOG OF STUDENTS


GRADUATE STUDENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>University</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brann, Bertrand</td>
<td>Ch.</td>
<td>University of Maine, 1909</td>
<td>Bangor</td>
</tr>
<tr>
<td>Hamlin, Truman Leigh</td>
<td>Ms.</td>
<td>Western Reserve University, 1899</td>
<td>Bennoch St.</td>
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<td></td>
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<td>University of Missouri, 1902</td>
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<tr>
<td>Kraybill, Benjamin</td>
<td>Ch.</td>
<td>Franklin and Marshall College, 1908</td>
<td>Campus,</td>
</tr>
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<td>Lorimer, Addison</td>
<td>Eh.</td>
<td>Colby College, 1888</td>
<td>Bangor</td>
</tr>
<tr>
<td>Patch, Edith Marion</td>
<td>Bl.</td>
<td>University of Minnesota, 1901</td>
<td>College St.</td>
</tr>
<tr>
<td>Reed, Lowell Jacob</td>
<td>Ms.</td>
<td>University of Maine, 1907</td>
<td>College St.</td>
</tr>
<tr>
<td>Wilbur, Walter Edmund</td>
<td>Ms.</td>
<td>University of Maine, 1908</td>
<td>Pembroke</td>
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SENIORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>Location</th>
<th>House</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ames, Leroy Winfield</td>
<td>Bl.</td>
<td>Bangor</td>
<td>B Θ Π House</td>
</tr>
<tr>
<td>Arnold, Frances</td>
<td>Rm.</td>
<td>Orono</td>
<td>North Main St.</td>
</tr>
<tr>
<td>Bagg, William Clarke</td>
<td>Fy.</td>
<td>Utica, N. Y.</td>
<td>B Θ Π House</td>
</tr>
</tbody>
</table>
University of Maine

Barron, Frank, Ee.
Battles, James Edmund, Ee.
Baylies, Wallace Brownell, Ce.
Berry, Earle Sylvester, Ee.
Bigney, Frederick Rowe, Ee.
Bird, Roy James, Ch.
Bragg, Lester Morse, Ce.
Bruce, Herbert Putnam, Ce.
Burke, Alfred Kimball, Ch.
Chadbourne, Vaughn Russell, Ee.
Chandler, Alfred Blanchard, Ee.
Chase, Walter Melville, Pm.
Clifford, Harold Linscott, Ce.
Cole, Raymond Thurber, Me.
Collins, John Lambert, Ee.
Congdon, William Everett, Ee.
Conlogue, Frederick Willis, Ee.
Cook, Horace Jewett, Ce.
Corning, Grover Trites, Ec.
Crocker, Ralph Willis, Ee.
Cruickshank, Robert Bacon, Fy.
Cummings, Chester Goodman, Me.
Danforth, Hugh Nagles, Me.
Davis, Fred Dumont, Fy.
Eaton, James Murchie, Ee.
Fassett, Malcolm Edward, Ce.
Fenn, Charles Henry, Ce.
Fortier, Frank Eugene, Ag.
Fox, Kent Richard, Ch.
Fulton, Charles Melville, Ce.
Gardner, Albert Kinsman, Ag.
Gardner, Leroy Whittier, Fy.
Gooch, Carl Joseph, Ce.
Goodrich, George Percy, Ee.
Graham, Charles Liguori, Ms.
Hall, Clifton Allison, Ee.
Hardy, Simeon Joseph, Me.
Harmon, W. Warren, Ec.
Hatch, Roy Ottis, Ch.
Hicks, Weston Miliiken, Ce.
Hobbs, Ralph Everett, Ee.
Howard, George Crosby, Gk.
Jellison, Rupert A., Ch.

Orono
Frankfort
New Bedford, Mass. Φ H K House
Malden, Mass. Σ X House
Greenville
South Paris
Stockton Springs Φ Τ Δ House
Lynn, Mass. Θ Ε House
Kennebunk Σ Α Ε House
Mattawankeag Φ Κ Σ House
Yarmouthville Mill St,
Bangor Bangor
Orono Α Τ Ω House
South Portland Φ Η K House
Gardiner, R. F. D. No. 15 Main St.
Portland 54 North Main St.
Houlton
Waterville Α Τ Ω House
Lynn, Mass. Φ Κ Σ House
Bangor Bangor
Akrón, Ohio Β Θ Π House
T'anceboro Α Τ Δ House
Denison, Texas Α Τ Ω House
Brooks Pine St.
Princeton Φ Τ Δ House
Woodfords Φ Τ Δ House
Portland Σ X House
Turner Center Α Τ Δ House
Bangor Β Θ Π House
Effingham Falls, N. H. Θ Ε House
Rockland Β Θ Ρ House
Dennysville Θ X House
Biddeford Φ Η K House
Phippsburg Mill St.
Brooklyn, N. Y. Θ X House
Brewer Φ Κ Σ House
East Hampden Α Τ Δ House
Old Orchard Α Τ Δ House
Orono Θ X House
Portland, R. F. D. No. 4 Mill St.
Lynn, Mass. Θ Ε House
Orono Oak St.
Bar Harbor Α Τ Δ House
Catalog of Students

Johnson, Chester Cleveland, Ms.
Jordan, Edith Luella, Rm.
Jordan, George King, Me.
Jordan, Harvey Herbert, Ce.
Ketchum, Charles Clayton, Ce.
Kyes, Herman Winslow, Ee.
LaMarche, George Everett, Ps.
Lamb, Ernest, Ec.
Leary, Herbert Daniel, Ce.
Leong, Yuen Foo, Ee.
Libby, Albert Edwin, Ce.
Littlefield, Philip Henry, Me.
Littlefield, Roby Perkins, Ch.
Maddox, Austin Louis, Ce.
Merriam, Frank Edmund, Me.
Merrill, Walter Scott, Ce.
Moore, Arthur Scudder, Ee.
Morgan Edwin Randolph, Ec.
Norton, Raymond Pratt, Ch.
Oak, Allen Edison, Ce.
Fettey, Franklin William, Bl.
Philbrook, John Neal, Ce.
Porter, Charles Augustus Cushman, Ce.
Pratt, Charles Oland, Ce.
Ray, Vinton Royal, Ce.
Reed, Geneva Alice, Ms.
Reed, Marshall Everett, Fy.
Rogers, Frederick Drummond, Me.
Rose, Joseph George, Ce.
Royal, Harold Merton, Ee.
Russell, Edward Giddings, Ce.
Scales, James Grindle, Ch.
Schierloh, August Herman Theodore, Gm.
Sevrens, Oliver Fisk, Bl.
Simonton Philip Downing, Me.
Skolfield, Herbert Nason, Ce.
Smith, Charles French, Ee.
Snow, Edward Notley, Ee.
Springer, George Edwin, Ee.
Stickney, Charles Edwin, Me.

Portland  Σ A E House
Old Town  Θ X House
Westbrook  Θ X House
Waltham  302 Oak Hall
Ashland  111 Oak Hall
Ipswich, Mass.  φ H K House
Oroko  A T Ω House
Utica, N. Y.  B Θ Π House
East Boston, Mass.  Θ X House
Sun Dong, Canton, China  303 Oak Hall

Portland  K Σ House
Portland  Crosby St.
Ogunquit  A T Ω House
Ellsworth  302 Oak Hall
Skowhegan  Main St.
Skowhegan  311 Oak Hall
West Lynn, Mass.  φ K Σ House
Sangerville  Θ X House
Patten  Δ T Δ House
Caribou  B Θ Π House
Fall River, Mass.  Δ T Δ House
Woodfords  A T Ω House

Bangor  φ K Σ House
West Medford, Mass.  Θ E House
Auburn  Θ E House
Oroko  College Road
Roxbury  Θ X House
Richmond  Σ X House
Brooklyn, N. Y.  Θ X House
Heron  Main St.
Eastport  Σ A E House
Guilford  φ Γ Δ House

Brooklyn, N. Y.  Σ A E House
North Woburn, Mass.  Δ T Δ House
Yarmouthville  Mill St.
North Harpswell  φ K Σ House
Skowhegan  φ Γ Δ House
Skowhegan  φ H K House
Portland  Θ E House
Portland  φ Γ Δ House

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University of Maine

Stover, Isaac Maxwell, Ee.
Stuart, George Albert, Ag.
Sweetser, Herman, Pitee, Ag.
Travis, James Irving, Ec.
Tucker, Charles Henry, Ce.
Wadsworth, George Sabine, Ag.
Walker, Harold Edward, Ce.
Wallace, George Alexander, Ce.
Webster, George Albert, Ee.
Wentworth, George Jacob, Ag.
Wentworth, William Hiram, Fy.
Whitmore, James Leon, Ee.
Wiley, Fred Everett, Ee.
Winters, Amos Arthur, Ce.
Workman, Thurlow Tracy, Ec.
Wright, Harold Williams, Ce.

JUNIORS

Adams, Alfred Sanford, Ms.
Atwood, Albert Samuel, Ee.
Barker, Harold Louis, Ce.
Barker, Jack Sears, Me.
Barton, Eben Robert, Ce.
Bartow, William Edgar, Ch. Eng.
Bearce, George Dunham, Fy.
Benjamin, Charles Smith, Ch.
Blaisdell, Allen Holt, Me.
Blaisdell, Guy Marble, Ee.
Blanchard, Alfred Michel, Ce.
Blanchard, Ralph Childes, Ce.
Brown, Florence Evelyn, Hy.
Brown, Jennie Christianna, Eh.
Buck, Raymond Wilbur, Ce.
Burden, Harry Poole, Ce.
Burgess, Harold Brainerd, Ce.
Burke, John Joseph, Ee.
Buzzell, Ralph Waldo, Ce.
Chapman, George Bunker, Me.
Chenery, Frederick Lincoln, Jr., Ee.
Conley, Albert Davis, Ch.
Coombs, David Clifford, Ee.
Cooper, Parker Messer, Ce.

Orobo  
Campus

Calais  
A T Ω House
Cumberland Center  
Σ Χ House
Machiasport  
Σ Α E House
Orono  
30 Main St.
Eastport  
A T Ω House
Sabattus  
Θ Χ House
Portland  
Β Θ Π House
Farmington  
201 Oak Hall
Kennebunk Beach  
Φ Η Κ House
Somersworth, N. H.  
Σ Χ House
North Haven  
311 Oak Hall
Hartford, Conn.  
Θ Χ House
Waterville  
Κ Σ House
Brewer  
Δ Τ Δ House
Brewer  
Σ Χ House

Newport  
Δ Κ House
Phillips  
Φ Η Κ House
Boston, Mass.  
University Inn
Calais  
Δ Τ Δ House
Palmer, Mass.  
Θ Χ House
Utica, N. Y.  
Σ Χ House
Auburn  
B Θ Π House
Old Town  
57 Fifth St.
Bangor  
University Inn
Farmington  
Old Town
Southbridge, Mass.  
Θ Χ House
Cumberland Center  
Δ Κ House
Old Town  
Old Town
Orono  
Park St.
Monticello  
Σ Χ House
East Lynn, Mass.  
Θ Χ House
Rockland  
Δ Τ Δ House
Chelsea, Mass.  
102 Oak Hall
Rockport  
Φ Η Κ House
Holyoke, Mass.  
Φ Η Κ House
Wayne  
Φ Κ Σ House
Woodfords  
54 North Main St.
Auburn  
Κ Σ House
Jefferson  
101 Oak Hall
Cousins, Irene, Hy.
Cushman, William Parsons, Ce.
Davis, Raymond Webber, Ec.
Day, Letitia Elizabeth, Lt.
Day, Ralph Roscoe, Ee.
Dinsmore, James Leigh, Ec.
Dixon, Thomas Libby, Ee.
Doore, Clarence Freeland, Me.
Duran, David Ray, Ce.
Dwinal, Olaf Windsor, Ce.
Eaton, Arthur Clement, Ch. Eng.
Everett, Jasper Willard, Ee.
Fish, Fred Enoch, Ce.
Fitch, LeRoy Allan, Ce.
Folley, Delton Wharff, Ee.
Geery, Louis Duncan Tallman, Ch.
Gerrish, Charles Samuel, Ce.
Gerrish, Leo Melville, Ee.
Gifford, George Washington, Ee.
Gilbert, Annie Hoadley, Lt.
Gooch, Winslow Lamond, Fy.
Goodnow, Alden Church, Ee.
Goodwin, Alexander Willard, Ee.
Gould, Ralph Wadlin, Ee.
Hall, William Scribner, Ch.
Hammond, Avery Carleton, Me.
Harris, Hiram Elmer, Ee.
Hart, Ashton Halsted, Ce.
Haskell, William Oleson, Ch. Eng.
Haslem, Howard Giles, Ce.
Hatch, Warren William, Me.
Hebard, William Everett, Me.
Holmes, Ralph Maynard, Ps.
Homans, Harry, Ce.
Hooper, Irvin rothingham, Ce.
Hosmer, George Lawrence, Me.
Howe, George Henry, Jr., Ce.
Ingham, Harold William, Ce.
Johnson, Charles A., Me.
Johnson, Walter Hauteville, Ce.
Jones, Sidney Morrison, Ce.
Kavanah, Gladys Emma, Ms.

Old Town
West Pownal
Guilford
Brewer
Cornish
Hallowell
Lewiston
Dover
Westbrook
Auburn
Wrenham, Mass.
Norway
Farmington
East Sebago
Sangerville
Katahdin Iron Works
Kittery Point
Berlin, N. H.
Dennysville
Old Orchard
Mt. Vernon House
Alfred
Fairhaven, Mass.
Vanceboro
Belfast
Norwich, Conn.
Orono
Orono
West Minot
Presque Isle
Il'westbrook
Bangor
Brooklyn, N. Y.
Fishdale, Mass.
Ellsworth
No. Vassalboro
Il'west Lynn, Mass.
Rockland
Caribou
Haverhill, Mass.
Waltham, Mass.
Oakland
Bangor
Bangor

Old Town
207 Oak Hall
Φ Γ Δ House
Brewer
Φ K Σ House
Φ H K House
105 Oak Hall
Δ T Δ House
Δ T Δ House
Θ X House
Θ X House
Δ K House
Δ K House
University Inn

203
University of Maine

King, James Putnam, Ee.
Kingsley, Ernest Roy, Ee.
Leavitt, George Clark, Bl.
LeBaron, LeRoy Morse, Ee.
Lee, Horace Newton, Bl.
Linn, Tse-sheng, Ec.
Lord, George Lester, Ce.
Lycette, Cecil Leland, Ce.
McCarthy, Maurice Franklin, Ch.
Markle, Bert Christian, Ce.
Marshall, Robert Clarence, Fy.
Maxcy, Everett Haseltine, Ec.
Maxwell, Edwin Clayton, Ce.
Mayo, Clarence Arthur, Ee.
Merrell, James Raymond, Ce.
Merrill, Dimon Emery, Ee.
Morrison, Freeland John, Ch.
Murphy, Cyrus William, Jr., Ee.
Nason, Fred Warner, Ch. Eng.
Oak, Donald Prescott, Ce.
Parsons, Wallace Emery, Ce.
Patch, Clifford, Ch. Eng.
Patterson, Ralph Edwin, Ce.
Peaslee, Dana Newton, Ce.
Peckham, Wentworth, Fy.
Phillips, George Alfred, Ce.
Phinney, Chester Squire, Rm.
Pickup, Herbert Wilfred, Ec.
Pinkham, Charles Joseph, Me.
Pinkham, Niles Cassius, Fy.
Pond, Ralph Benjamin, Ee.
Prentiss, Mildred Louise, Gm.
Quineen, Charles Roger, Ee.
Rea, Charles Drummond, Ce.
Robinson, John Tyler, Ee.
Russell, Harl, Ce.
Sargent, Harold Rodolph, Ce.
Sawtelle, Philip Perry, Me.
Sawyer, Frank Sleeper, Ce.
Scales, Nelson Ned, Ec.
Sisson, Elmer Allen, Ee.
Smith, Nelson Ernest, Ee.
Smith, Russell, Ag.

Peabody, Mass. \( \Theta E \) House
Yarmouthville Main St.
Norway 202 Oak Hall
West Wareham, Mass. 212 Oak Hall
Greenwood, Mass. College St.
Hong Kong, China College St.
South Berwick \( \Delta K \) House
Houlton 211 Oak Hall
Lewiston K \( \Sigma \) House
Northampton, Mass. \( \Sigma \Delta E \) House
Wellesley, Mass. \( \Theta X \) House
Gardiner \( \Sigma \Delta E \) House
Palmer, Mass. 72 Main St.
Hampden Highlands \( B \Theta \Pi \) House
North Adams, Mass. \( \Delta T \Delta \) House
Alfred 201 Oak Hall
Bangor \( \Sigma \Delta E \) House
West Kennebunk Oak Hall
Haverhill, Mass. \( \Delta T \Omega \) House
Bangor \( \Delta T \Omega \) House
North Anson \( B \Theta \Pi \) House
Bangor Bangor
Bangor \( \Delta T \Omega \) House
Lynn, Mass. Main St.
Lewiston \( B \Theta \Pi \) House
Westbrook \( \Delta T \Omega \) House
Pawtucket, R. I. \( \Theta X \) House
Ipswich, Mass. \( \Theta X \) House
Farmington 211 Oak Hall
Portland \( \Phi \Gamma \Delta \) House
Bangor \( \Phi \Gamma \Delta \) House
Brewer Mt. Vernon House
Charlestown, Mass. Main St.
Southwest Harbor \( \Phi K \Sigma \) House
Sherman Station Middle St.
Dexter 103 Oak Hall
Sedgwick \( \Theta E \) House
Augusta 1 Main St.
Sabattus \( \Theta X \) House
Guilford \( \Phi \Gamma \Delta \) House
So. Middleboro, Mass. 212 Oak Hall
Peabody, Mass. \( \Theta E \) House
Auburn \( K \Sigma \) House
## Catalog of Students

<table>
<thead>
<tr>
<th>Name</th>
<th>City/Country</th>
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<tbody>
<tr>
<td>Southard, Frank Elwyn</td>
<td>Ec. Auburn</td>
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<tr>
<td>Stanley, Winthrop Hamor</td>
<td>Ed. Hulls Cove</td>
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<td>Strout, Philip Stanwood</td>
<td>Ce. So. Portland</td>
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<tr>
<td>Sumner, Merton Rogers</td>
<td>Ce. South Paris</td>
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<td>Ms. Hermon</td>
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<tr>
<td>Thomas, Hayward, Eh.</td>
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<td>Thompson, Lynwood Burkett, Fy.</td>
<td>Easton</td>
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<tr>
<td>Tobey, Elmer Robert</td>
<td>Pm. Belfast</td>
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<td>Varnes, George Newton</td>
<td>Me. Norridgewock</td>
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<td>Wakefield, George Arthur</td>
<td>Bl. Wakefield</td>
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<td>Wakefield, Oscar Abel, Ce.</td>
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<td>Hy. Portland</td>
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<td>Wertheim, Leslie Jack</td>
<td>Ce. Strong</td>
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<td>Wetherell, John Gamble</td>
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<td>Wheeler, Stanley Mathews, Ec.</td>
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<td>Whitney, Benjamin Burbank</td>
<td>Ce. Bangor</td>
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<td>Whittier, Earle Ovando, Ch. Eng.</td>
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<td>Wilson, Winthrop Field, Ce.</td>
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<td>Wood, Harold Grinnell</td>
<td>Fy. Hallowell</td>
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## SOPHOMORES

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<tbody>
<tr>
<td>Adams, Archie Asbury</td>
<td>Me. Main St.</td>
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<tr>
<td>Ash, John Emmons, Ee.</td>
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<tr>
<td>Averill, Helen Willard</td>
<td>Ch. Main St.</td>
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<tr>
<td>Ayer Elmore, Me.</td>
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<td>Ballou, William Rice</td>
<td>Me. Bar Harbor</td>
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<tr>
<td>Bartlett, Emily Mary</td>
<td>Bl. Milltown</td>
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<tr>
<td>Batty, Charles Albert</td>
<td>Me. Dorchester, Mass.</td>
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<td>Bickford, Miretta Lydia</td>
<td>Lt. Bath</td>
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<tr>
<td>Buzzell, Robert Loring</td>
<td>Ec. Orono</td>
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<tr>
<td>Carr, John Oliver, Ch.</td>
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<tr>
<td>Cavanaugh, Charles Alton</td>
<td>Ag. Skowhegan</td>
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<tr>
<td>Center, Irving Emory</td>
<td>Me. Old Town</td>
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<tr>
<td>Chapman, Harry Wey</td>
<td>Ee. Georgetown, Mass.</td>
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<tr>
<td>Chase, Alden, Ee.</td>
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<tr>
<td>Churchill, Fred Raymond</td>
<td>Ee. Bangor</td>
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<tr>
<td>Clapp, Alma Eliza</td>
<td>Ms. Portland</td>
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<tr>
<td>Clark, George Freeman</td>
<td>Ce. Kingston, Mass.</td>
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</tbody>
</table>

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Catalog of Students

Lancaster, Frank Hodgkins, Ce.
Libby, Arthur Clarence, Ce.
Lilly, Walter Harrison, Ce.
Loring, Paul Cushing, Ce.
Macdonald, Roger Winchester, Ce.
McDonald, Warren, Ce.
McKeen, Ellis Wyman, Ag.
McKenney, Lyman Atwell, Ee.
Merrill, Ruth, Hy.
Miller, William James Henry, Fy.
Morrill, Clide Gilman, Me.
Mountfort, Oscar W., Ce.
Mullins, William, Ec.
Murphy, Patrick Henry, Ce.
Murray, Walter Edward, Ee.
Newell, Charles William, Ee.
Nickels, Albert Mortimer, Me.
Page, Austin Elmer, Ce.
Parker, George Leavitt, Ag.
Parker, William Emery, Ee.
Perkins, Walter Ezra, Ce.
Pinkham, Seymour Leroy, Ee.
Poole, James Plummer, Fy.
Poore, Ward Smith, Ag.
Quimby, Sherman Leslie, Me.
Rand, Lynne Thomas, Ce.
Reid, Robert Clifford Henry, Ee.
Richardson, Lester Lary, Ce.
Ridlon, Percy Fisher, Me.
Rowe, Charles Winfield, Ag.
Russell, Luther Sampson, Ag.
Russell, Mary Etta, Bl.
Savary, Warren Hapgood, Ce.
Sawyer, Edward Eugene, Ch.
Schrumpf, William Ernest, Ag.
Shales, William Arthur, Ee.
Smiley, Leon Walter, Ce.
Smith, Montelle Chester, Ee.
Southwick, William Alfred, Ee.
Spear, Graham Brown, Ee.
Sturtevant, Arthur Leroy, Ag.
Sullivan, Charles Eugene, Me.
Sweetser, Harlan Hayes, Fy.

Presque Isle
Scarboro
Woolwich
Yarmouthville
Peabody, Mass.
Portland
Fryeburg
Saco
Auburn
South Berwick
Wakefield, Mass.
Nashua, N. H.
Cambridge, Mass.
Essex, Conn.
Lynn, Mass.
Houlton
Cherryfield
Malden, Mass.
Skowhegan
Harrington
Old Town
Portland
Gloucester, Mass.
Columbus, O.
So. Brewer
Unity
Bangor
Old Orchard
Greenwood, Mass.
South Paris
Orono
East Wareham, Mass.
Old Town
Farmington
Belfast
Skowhegan
Old Town
West Peabody, Mass.
Springfield, Mass.
Milo
Gorham, N. H.
Cumberland Center

Φ H K House
305 Oak Hall
Σ X House
Σ X House
Θ X House
Φ Γ Δ House
B Θ Π House
K Σ House
Bennoch St.
Φ H K House
Σ X House
40 Main St.
Grove St.
Δ T Δ House
Θ X House
Φ K Σ House
Σ Α Ε House
Α Τ Ω House
Α Τ Ω House
K Σ House
Old Town
Φ H K House
Α Τ Ω House
Σ X House
Main St.
Σ X House
Φ H K House
Main St.
Φ H K House
204 Oak Hall
Campus
North Main St.
North Main St.
Old Town
Park St.
112 Oak Hall
Φ Γ Δ House
Θ Ε House
Θ Ε House
Σ Α Ε House
Campus
Σ Α Ε House
202 Oak Hall
University of Maine

Talbot, Ralph Lee, Ee.  Lewiston  Φ H K House
Tartre, Charles Wilfred, Ee.  Biddeford  Σ A E House
Thompson, Harry Ernest, Ee.  Bath  Oak Hall
Underhill, John Whitley, Ce.  Reading, Mass.  Θ E House
Washburn, Dana Peabody, Me.  Calais  B Θ Π House
Webster, Ernest John, Ee.  Farmington  Park St.
Weeks, Allen Henry, Me.  Jefferson  Forest St.
Whitcomb, Newell Bryant, Ec.  Bangor  B Θ Π House
Winchester, Frank William, Ce.  Lynn, Mass.  Θ X House
Winn, Harold Earl, Ce.  Dover, N. H.  Mill St.
Witham, Walter Remick, Ce.  Madison  Φ K Σ House
Woodberry, George Roundy, Ec.  Beverly, Mass.  Σ A E House
Woodman, Carrie Luella, Ms.  Claremont, N. H.  Mill St.
Woodward, Karl Douglas, Ch.  Kingston, Mass.  Κ Σ House
Worden, George Newton, Ag.  Vanceboro  Park St.
Worster, Helen Charlotte, Eh.  Bangor  Mt. Vernon House

FRESHMEN

Ackley, Edward Preble  Peaks Island  Φ H K House
* Allen, Clifton Lowery  Mt. Vernon  University Inn
Amadon, Arthur Franklin  Boston, Mass.  A T Ω House
Ames, Forrest Bertram  Bangor
Annable, Burleigh Ansel,  Lynn, Mass.  Θ X House
Ayer, Harold Francis  Haverhill, Mass.  Θ X House
Bell, Wilbur Carroll  Woodfords  10 Pine St.
Benson, Arthur Wilhelm  Wellesley, Mass.  Δ T Δ House
Bigelow, Elson Hartwell  Ayer, Mass.  Κ Σ House
Bird, Maurice Cobb  Rockland  B Θ Π House
Blanchard, Franklin Roy  Beverly, Mass.  32 North Main St.
Blanchard, Robert Germain  Cumberland Center  Δ K House
Blanchard, Maurice Leland  Newport, Vt.  University Inn
Bolton, Philip Sumner  Gorham  Coburn Hall
Bradbury, Ira Miller  Gorham  Φ Γ Δ House
Brean, Lloyd Francis  Lee  Φ K Σ House
Brewer, Warren Grant  Peaks Island  Φ Γ Δ House
Britt, John Manning, Jr.  Cumberland Center  College St.
* Brooks, James Strothard  Brewer  Φ K Σ House
Brown, Philip Warren  South Portland  Θ E House
Cannon, Arthur Hildreth  Orono  Orono
Carcey, John Winchester  Buckfield  B Θ Π House
Carleton, John Harvey  South Berwick  A T Ω House

* In partial standing.
Catalog of Students

Carter, William Simpson
* Chandler, Clifton Edward
* Chase, Charles Arthur
Chase, Walter Roland
Chase, Edward Everett
Church, James Elwood
Clark, George Freeman
Clark, George Clarence
Clark, Vernal
Creeden, James Coharn
Cronan, Mark Dennis
Crosby, Harry Lawrence
Crossman, Mae Evelyn
Cushing, Irving Beecher
Danforth, Stephen Paul
Davis, Oscar Henry
Dillingham, Winfield Presbury
* Doak, Marthon
Dowd, Edward Francis
Eales, Frank Henry
Fairbrother, Nathaniel Smith
Fickett, Ernest Leslie
Finkbeiner, Daniel Talbert
* Fletcher, William Leroy
Floyd, Raymond
Foster, Daniel Albert
Foster, Philip
Foster, Raymond Guilford
* Getchell, Dennis
Gibbs, John
Gifford, William Edward
Goodwin, Fred Gilman
Groves, Walter Clyde
Haines, Frank Warren
Hamlin, Harold
Harmon, Paul Stanley
Harriman, Royden Henry
Hart, John Walter
Harvey, Alice Josephine
Higgins, Thomas Carol
Hinkley, Harry Wendell

Bar Harbor
Portland
Sebec
Beverly, Mass.
Bluchill
Gardiner
Tremont
Portland
Guilford
Lewiston
Middleton, Mass.
Portland
Claremont, N. H.
Vermont
Freeport
Foxcroft
North Berwick
Freeport
Belfast
Medina, N. Y.
Touceboro
Guilford
Portland
Clearfield, Penna.
Dorchester, Mass.
Brewer
Ellsworth Falls
Waterville
Portland
Limestone
Livermore Falls
North Fairfield
Charleston
Camden
Dexter
Orono
Woodfords
Bangor
Holden
Bangor
Bar Harbor
Kangeley

Φ Γ Δ House
Φ Γ Δ House
Δ Τ Δ House
Σ X House
Σ X House
Myrtle St.
308 Oak Hall
309 Oak Hall
Θ Ε House
310 Oak Hall
204 Oak Hall
Κ Σ House
Oak Hall
Δ Τ Δ House
College St.
206 Oak Hall
Pine St.
Δ Τ Δ House
Φ Κ Σ House
308 Oak Hall
Θ Χ House
Σ Λ Ε House
Β Θ Π House
ι Park St.
ι Park St.
Campus
Peters St.
Β Θ Π House
Main St.
Σ X House
Bangor
Peters St.
Mt. Vernon House
Θ Ε House
16 Main St.

* In partial standing.
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>House</th>
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<tbody>
<tr>
<td>Hodges, Ralph Corydon</td>
<td>Richmond</td>
<td>Δ K House</td>
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<td>Huntington, Richard Thomas</td>
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<td>* Hurd, Stephen Brown</td>
<td>Dover</td>
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<td>Jackson, Percy Edward</td>
<td>Lanceboro</td>
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<td>Jones, Carrol Clair</td>
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<td>210 Oak Hall</td>
</tr>
<tr>
<td>Pinkham, Robert Arthur</td>
<td>Abington, Conn.</td>
<td>Oak Hall</td>
</tr>
<tr>
<td>Platt, James Nelson</td>
<td>East Machias</td>
<td>Φ Γ Δ House</td>
</tr>
<tr>
<td>Pope, Morrill Stuart</td>
<td>Portland</td>
<td>Φ H K House</td>
</tr>
<tr>
<td>Powers, Richard Anderson</td>
<td>Revere, Mass.</td>
<td>Σ X House</td>
</tr>
</tbody>
</table>

*In partial standing.
Catalog of Students

Razee, Herman Clifford
Richards, Harold
Richardson, Carroll Raymond
Ricker, Elwyn Tristram
Rounds, Oscar Harris
Sampson, Albert Edward
* Sanborn, Gilbert Gould
Sansoucie, William
* Savage, Ernest Thompson
Sawtelle, Donald Wing
Sawtelle, Hale Forbes
Sawyer, Allan Frank
* Sawyer, Winfield Fenno
Seabury, Rollins Angove
* Sederquest, Allen Ernest
Seekins, Leon Elroy
Shepherd, Thomas Dudley
Short, Howell Chaffee
* Simpson, George Stevens
Small, Nathan Houston
Small, Ralph Hugo
* Smith, Arthur Fred
Smith, Leon Campbell
Spencer, Frank Foss
Springer, Vida
Stone, Walter Christopher
Sullivan, Willis Edmund
Sukeforth, Raymond Oscar
Suminsby, Howell Kirkby
Swasey, Fred Harold
* Tabor, James Atwood, Jr.
Tashjian, Edward Hagoh
Tilly, Glenwood Goding
Tipping, Charles Herbert
Tuck, Leon Sylvester
Underhill, Charles Warren
* Utecht, Mary Ellen
Wallace, John Clyde
Wardwell, Herbert Maurice, Jr.
Webb, Antoinette

* In partial standing.

Attleboro, Mass. 108 Oak Hall
Belfast  Δ K House
Oakland 208 Oak Hall
North Saco Oak Hall
Reading, Mass. Φ Κ Σ House
Gorham Coburn Hall
Bangor Bangor
Southbridge, Mass. Θ X House
Bangor Bangor
Orono Orono
Auburn Φ H K House
Milbridge B Θ Π House
Bangor Bangor
Yarmouth Θ E House
Wakefield, Mass. Σ X House
Skowhegan K Σ House
Wellesley Hills Park St.
Pawtucket, R. I. Θ X House
Marlboro, Mass. Oldtown
Belch Α K House
Oakland Θ X House
Peabody, Mass. 203 Oak Hall
Topsham Σ X House
Berwick
Franklin Mt. Vernon House
Clinton, Mass. University Inn
Biddedford 307 Oak Hall
Fort Fairfield Σ X House
Main St.
Bar Harbor
South Berwick Φ Κ Σ House
Corinna Oldtown
Smyrna Mills Commons
Ashland A T Ω House
Claremont, N. H. A T Ω House
Chelsea, Mass. Mt. Vernon House
Lee Crosby St.
Reading Mass. Θ E House
Topsham Mt. Vernon House
Portland B Θ Π House
Newport Φ H K House
Bangor Mt. Vernon House
University of Maine

Wescott, Chester Arthur
Bar Harbor  Φ Γ Δ House
Wescott, Clifford Walker
Patten  K Σ House
Wescott, Guy Raymond
Rumford  40 North Main St.
Weston, Edward Gordon
Fryeburg  Oak Hall
Wetherbee, Ralph Wilbur
Hudson, Mass.  Bangor
Whitten, Alice Idella
Belfast  Mt. Vernon House
Williams, Thomas Hughes
Brownville  207 Oak Hall
Wilson, Warren LeRoy
Houlton  Orono
Wing, Roscoe Adelbert
Oldtown  Θ E House
Young, George Edgar
Skowhegan  Φ Γ Δ House
Young, Muriel
Jacksonville  Mt. Vernon House
Young, Ralph Edmund
Lebanon, N. H.  University Inn

SPECIAL STUDENTS

Adams, Arthur Linwood, Ee.
Brewer
Allen, Edward Herbert, Fy.
Dorchester, Mass.  Main St.
Alton, Edward Samuel, Ee.
Lynn, Mass.  Θ E House
Blossom, Waldo Ames, Ag.
Boothbay Harbor  K Σ House
Bowdoin, Emery Ray, Ec.
Bucksport  Main St.
Burpee, Albert Rice, Ch.
Rockland  30 Main St.
Bushfield, Gordan, Ag.
Topsham  Orono
Chase, Arthur Clifford, Fy.
Sheepscott  Σ A E House
Chilcott, Rebecca, Ds.
Bangor
Clark, Lowell Freeman, Me.
Hampden  112 Oak Hall
Codaire, Alfred Hotchkiss, Ce.
Collinsville, Conn.  Δ T Δ House
Cowan, Walter Albion, Pl.
Pittsfield  103 Oak Hall
Davis, Raymond Earle, Ce.
Runford  Θ E House
Derby, Frank Holliday, Ce.
Revore, Mass.  Δ T Ω House
Dyer, Guy Valentine, Fy.
Calais  Σ X House
Fiske, Raymond Houghton, Fy.
Lincoln  Myrtle St.
French, Roy Waldo, Eh.
Orange, Mass.  Σ X House
Gale, George Bryant, Ag.
Petersham, Mass.  Δ K House
Gregson, Lawrence Halliwell, Fy.
Newburyport, Mass.  Δ T Δ House
Hall, Rufus Atwood, Ce.
Warren  Commons
Harrington, Carroll Prescott, Ee.
Dexter  301 Oak Hall
Harrington, Daniel Michael, Eng.
Hallowell  University Inn
Hatch, Harrison Morton, Ag.
West Groton, Mass.  Θ X House
Henderson, Robert Raymond, Ch.
Madison  110 Oak Hall
Hilton, Will, Ce.
Greenville  Φ Κ Σ House
Homer, Morton Leslie, Ch.
Bucksport  Κ Σ House
Kinney, Fay Delancy, Me.
Dexter  Θ E House
Leland, Clarence Roy, Ag.
Mechanic Falls  Park St.
Catalog of Students

Lewis, Enos Boise, Ce.
McManus Margaret Ellen, Eh.
Maddison, Walter Franklin, Me.
Mariner, Hazel Folsom, Rm.
Morris, Albert Emanuel, Pl.
Munoz, Eugenio Luis, Ce.
Page, Edwin Richard, Ee.
Patterson, Arthur Willis, Ag.
Quarmby, George Henry, Ee.
Rattray, Walter Carlton, Ee.
Richardson, Douglas Leffingwell, Ch.
Richardson, Howard Byron, Ce.
Robinson, Chauncey Stephen, Ce.
Ryder, Charles Edward, Ag.
Scales, Eugene Mudgett, Me.
Tibbetts, Julia Jane
Wells, Mary, Gm.

Wilkinson, John Daniel, Ce.
Winchester, Sidney Hodge, Fy.
Wu, Maen Chang, Ce.
York, George James, Ch.

Oro

Bangor

West Lynn, Mass.

Milford

Oldtown

Ponce, P. R.

Winterport

Castine

Saugus

Bangor

Peters St.

Bangor

Pine St.

Milford

Oldtown

Oak Hall

Dat A House

Σ A E House

Campus

Bangor

Bangor

109 Oak Hall

Oldtown

Oldtown

Campus


SHORT PHARMACY

SECOND YEAR

Davis, Frederic Libby
Greeley, George Fred
Helgesen, Fred
Josselyn, Royce Brewster
Steele, Clayton Harvey
Ward, George Campbell

South Berwick

Bangor

Newport, R. I.

South Hanson, Mass.

West Jonesport

Kennecott

A T Ω House

Oak Hall

Beach St.

Φ Κ Σ House

Ф Η Κ House

Δ Τ Ω House


FIRST YEAR

Bowdoin, Harold Webster
Butts, Russell Carlton
Hinckley, Victor Hugo
Hutchins, Carlton
Johnson, Guy Stanley
Judkins, Walter Clyde
Murphy, William Edward

Kennecott

Kingfield

West Jonesport

Kingfield

Masardis

Waterville

Portland

Σ A E House

North Main St.

Park St.

North Main St.

North Main St.

40 North Main St.

College St.

10 Pine St.
University of Maine

Newport, Edward Foster  Amherst, Mass.  Commons
Parker, Floyd Emlin  Phillips  Σ A E House
Pierce, Henry, Jr.  Bangor  Bangor
Stewart, Fred Thomas  Linneus  Oak Hall
Treat, John Whittier  Bangor  Bangor
Wilson, George Renfrew  Searsport  Δ K House

TEACHERS' COURSE IN AGRICULTURE.
Herbert Staples Hill, B. A.  Westbrook  12 Bennoch St.

SCHOOL OF AGRICULTURE
SECOND YEAR
Hartill, Leonard Ramsden  Brunswick  College Inn
Payson, Raymond Murray  Rockland  College Inn
Pillsbury, Philip Otto  Rangeley  Grove St.
Taylor, Curtis  Springvale  Campus
True, Warren Dudley  Litchfield  Campus

FIRST YEAR
Beckler, Earle Harlow  Livermore Centre  Coburn Hall
Chapman, Everett Thomas  Harrison  54 North Main St.
Dean, John  Biddeford  Park St.
Haynes, Frank Albert  Gardiner  Campus
Hews, Ray Delma  Ashland  Orono
McDougal, Harold George  Van Buren  Park St.
Markham, Enoch Arden  Skowhegan  Spaulding's Corner
Peabody, Maurice Arland  Exeter  Spaulding's Corner
Pingree, Ferley Louville  Denmark  Campus
Piper, Seavey Allan  Troy  Bangor
Plant, Stuart Dowling  Gardiner  4 Forest Ave.
Wadsworth, Harry Bradford  Cornish  Park St.
Wilbur, Melvin Foster  Pembroke  Main St.

THE COLLEGE OF LAW
GRADUATE STUDENTS
Blanchard, Benjamin Willis, LL. B.  Bangor  118 Congress St.
University of Maine, 1904.
Bowker, Edgar Marshall, LL. B.  Whitefield, N. H.
George Washington University, 1902.
Catalog of Students


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


Dudley, John Perley, LL. B. Houlton Colby College. University of Maine, 1908.


Greeley, Archer Rawson Webster, Mass.


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

Monroe, Edward Roy, LL. B. Portland University of Maine, 1907.


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


Reid, Charles Hickson, LL. B. Bangor 60 Lincoln St. University of Maine, 1903.

Robinson, Curville Charles, LL. B. New York City University of Maine, 1905.

University of Maine

Scavey, Ernest Linwood, LL. B., Caribou
University of Maine, 1908.

Skillin, Carroll Brown, LL. B., Portland
University of Maine, 1908.

Warren, John Clifford, B. S., LL. B. Portland
University of Maine, 1902. Boston University, 1905.

Weeks, William Marston, B. D., LL. B. Lebanon, Tenn. 25 State St.
Yale University, 1896. Cumberland University, 1908 and University of Maine, 1909.

SENIORS

Anderson, William Lewis, Jr., Hartland
University of Maine.

Bass, Frank Lyman, B. A., Bangor
Bowdoin College, 1907.

Brown University and Clark College.

Caplan, Israel Harry Portland
Bowdoin College, 1902.

Elmassian, Astor Lynn, Mass.
Brown University and Clark College.

Emery, Oscar Harris Bar Harbor
Bowdoin College.

Getchell, Carl Folsom, B. A. Newport
Dartmouth College, 1905.

Grady, Edward Joseph Bangor
Bowdoin College, 1902.

Grinnell, Herbert Leroy, Jr., B. A. Dover, N. H. 7 Brimmer St., Brewer
Bowdoin College, 1902.

Havey, Andrew Percy, B. A. West Sullivan
Bowdoin College.

Holman, William Harrison Bangor
Member Maine State Bar.

Jones, Lawrence Vivian Bangor
University of Maine.

Jude, William Floyd Ellsworth
Bowdoin College.

Lemaire, Charles Wendell Taunton, Mass.
University of Maine, 1907.

Mitchell, Robie Lawton, B. A. West Newfield
University of Maine, 1907.

Norwood, Seth Wademere Tremont
Member Maine State Bar.

Packard, Bertram Everett, B. A. Litchfield
Bates College, 1900.

Powers, Elisha Shaw Houlton
Bowdoin College. Member Maine State Bar.

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Catalog of Students

Roberts, Willis Elmer, B. A.,
Bowdoin College, 1907.

Sawyer, Joseph Warren

Spencer, Bertrand Edwin, B. A.
Dartmouth College, 1906.

Taylor, Henry Nathan

Toole, Christopher, Jr.
Bowdoin College. Members of Maine State Bar.

Brunswick 7 Boynton St.

Milbridge 134 Cumberland St.

E. Norwich, L. I. Y. M. C. A.

Portland 176 Court St.

Bangor 48 Ohio St.

Juniors

Blaisdell, William Bradley
Campbell, Collen Carroll

Carter, Rodney Walker
Chesley, Franklin Russell
Conary, Wilfred Grindle
Conners, George Leroy
Gould, Daniel Israel
Bowdoin College.

Harvey, Brad Dudley
Hosmer, Charles Bridgham
Liggett, John Edmund
Sherry, Charles Ernest
Snow, Charles Augustus
Sweeny, William Henry
Sweetser, George Roy, B. A.
University of Maine, 1909.

Toole, Christopher, Jr.
Bowdoin College. Members of Maine State Bar.

Blaisdell, William Bradley
Campbell, Collen Carroll

Carter, Rodney Walker
Chesley, Franklin Russell
Conary, Wilfred Grindle
Conners, George Leroy
Gould, Daniel Israel
Bowdoin College.

Harvey, Brad Dudley
Hosmer, Charles Bridgham
Liggett, John Edmund
Sherry, Charles Ernest
Snow, Charles Augustus
Sweeny, William Henry
Sweetser, George Roy, B. A.
University of Maine, 1909.

Tertzag, Jacob Kevork, B. A.
Euphrates College, 1902.

Varney, Henry Harrison

North Sullivan 77 Broadway
Provincetown, Mass.

62 Holyoke St., Brewer

Bluchill 147 Essex St.
Saco 239 State St.
Bluchill Falls 147 Essex St.
North Attleboro, Mass. The Jerrard
Bangor 127 Congress St.

Haverhill, Mass. 8 Somerset St.
Hudson, Mass. 474 Main St.
Augusta 72 West Broadway
West Acton, Mass. Y. M. C. A.
Milo Y. M. C. A.
Worcester, Mass. 77 Broadway
Bangor 36 Seventh St.

Mamuret-ul-Aziz, Armenia

East Rochester, N. H. Orono

First Year Class

Adams, Frederick Prescott
Baldwin, William Vincent Reginald

Burns, Joseph Leo
Clarke, Percy Truman
Cook, Albert Fremont
University of Maine.

Davis, John Bradford

Cherryfield 218 French St.

No. Wilbraham, Mass.

Taunton, Mass. 7 Boynton St.
Franklin Y. M. C. A.
Bangor Alpha House, Orono

Haverhill, Mass.

79 Kenduskeag Ave.
<table>
<thead>
<tr>
<th>Name</th>
<th>University/City</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dow, Charles Whitfield</td>
<td>Bates College</td>
<td>Caribou 39 Haymarket Sq.</td>
</tr>
<tr>
<td>Fellows, Frank</td>
<td>University of Maine</td>
<td>Bangor 33 Jefferson St.</td>
</tr>
<tr>
<td>Gardner, Phillips Brooks</td>
<td>University of Maine</td>
<td>Machias 316 Hammond St.</td>
</tr>
<tr>
<td>Gaffney, John Lyon</td>
<td>Holy Cross College</td>
<td>Bangor 313 State St.</td>
</tr>
<tr>
<td>Grant, David Stuart, Jr.</td>
<td>Bates College</td>
<td>Stonham Y. M. C. A.</td>
</tr>
<tr>
<td>Greene, Arthur Albert</td>
<td>University of Vermont</td>
<td>Highgate Center, Vt. 185 Center St.</td>
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<tr>
<td>Haines, William, B. A.</td>
<td>Bowdoin College, 1909</td>
<td>Waterville Y. M. C. A.</td>
</tr>
<tr>
<td>Hofstedt, Eugene Albert</td>
<td>Bridgton</td>
<td>Winchendon, Mass. 53 Fourth St.</td>
</tr>
<tr>
<td>Ingalls, Ralph Morrill</td>
<td>Van Buren</td>
<td>Y. M. C. A.</td>
</tr>
<tr>
<td>McHale, Martin Joseph</td>
<td>University of Maine</td>
<td>6 E House, Orono</td>
</tr>
<tr>
<td>Peirce, Waldo, B. A.</td>
<td>Harvard College, 1908</td>
<td>Bangor 75 Hammond St.</td>
</tr>
<tr>
<td>Porton, Samuel</td>
<td>Houlton</td>
<td>Belfast Y. M. C. A.</td>
</tr>
<tr>
<td>Putnam, Aaron Albert, B. A.</td>
<td>Bowdoin College, 1908</td>
<td>Houlton 77 Broadway</td>
</tr>
<tr>
<td>Rand, Howard Benjamin</td>
<td>Haverhill, Mass.</td>
<td>79 Kenduskeag Ave.</td>
</tr>
<tr>
<td>Sawyer, Henry Waide</td>
<td>Milbridge</td>
<td>31 Kossuth St</td>
</tr>
<tr>
<td>Schierloeh, August Herman Theodore</td>
<td>University of Maine</td>
<td>Brooklyn, N. Y.</td>
</tr>
<tr>
<td>Smith, Bernard Peter</td>
<td>Cherryfield</td>
<td>Σ A E House, Orono</td>
</tr>
<tr>
<td>Sullivan, Thomas Edward</td>
<td>Lubec</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>31 Kossuth St</td>
</tr>
<tr>
<td>Beliveau, Albert</td>
<td>Rumford</td>
<td>29 Palm St.</td>
</tr>
<tr>
<td>Clancy, Frank Bernard</td>
<td>Nashua, N. H.</td>
<td>22 Ohio St.</td>
</tr>
<tr>
<td>Doak, Carleton</td>
<td>Belfast</td>
<td>148 Essex St.</td>
</tr>
<tr>
<td>Harvey, Leigh Irving</td>
<td>Bangor</td>
<td>8 Somerset St.</td>
</tr>
<tr>
<td>Higgins, Percy Elmer</td>
<td>Ellsworth</td>
<td>303 Hammond St.</td>
</tr>
<tr>
<td>Long, Edmund Joseph</td>
<td>Lynn, Mass.</td>
<td>22 Sanford St.</td>
</tr>
<tr>
<td>Morrison, Roy</td>
<td>Saco</td>
<td>Alpha House, Orono</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University of Maine</td>
</tr>
<tr>
<td>Sacknoff, Harry Alvah</td>
<td>Portland</td>
<td>Portland 221 Center St.</td>
</tr>
</tbody>
</table>

218
Catalog of Students

SUMMER TERM

(Abbreviations indicate subjects taken)

Adams, Ida Matilda
Teacher.

Ballou, William Rice

Barker, Harold Louis

Barron, Frank

Bartlett, Sanford Simon

Blanchard, Bessie Grant
Teacher.

Bowdoin, Emery Ray

Carpenter, Frank Simonds

Carter, Irving Willis

Carvill, Alonzo Harper
Principal.

Chaplin, Jeanette Evangeline
Assistant Teacher.

Chapman, Everett Thomas

Chapman, Harry Wey

Chase, Alice Elizabeth Guild

Chick, Margaret Amy
Teacher.

Chick, Stanley

Clemons, Samuel Wadsworth

Clifford, Harold Linscott

Coburn, Martha Alice
Teacher.

Coffin, Charles Frederick

Cushman, William Parsons

Danforth, Hugh Nagles

Daniels, Clyde Folsom

Davee, Everett Willard

Dinsmore, Ernest LeRoy, B. A.

Dinsmore, Mary Crane

Dixon, Esther Margaret

Drew, Laurence Evans

Elden, Nellie May
Teacher.

Emery, Helen Rickter
Principal.

Ervine, Annie

Evans, Annie

Everett, Jasper Willard

Adams, Ida Matilda

Ballou, William Rice

Barker, Harold Louis

Barron, Frank

Bartlett, Sanford Simon

Blanchard, Bessie Grant

Bowdoin, Emery Ray

Carpenter, Frank Simonds

Carter, Irving Willis

Carvill, Alonzo Harper

Chaplin, Jeanette Evangeline

Chapman, Everett Thomas

Chapman, Harry Wey

Chase, Alice Elizabeth Guild

Chick, Margaret Amy

Chick, Stanley

Clemons, Samuel Wadsworth

Clifford, Harold Linscott

Coburn, Martha Alice

Coffin, Charles Frederick

Cushman, William Parsons

Danforth, Hugh Nagles

Daniels, Clyde Folsom

Davee, Everett Willard

Dinsmore, Ernest LeRoy, B. A.

Dinsmore, Mary Crane

Dixon, Esther Margaret

Drew, Laurence Evans

Elden, Nellie May

Emery, Helen Rickter

Adams, Ida Matilda

Ballou, William Rice

Barker, Harold Louis

Barron, Frank

Bartlett, Sanford Simon

Blanchard, Bessie Grant

Bowdoin, Emery Ray

Carpenter, Frank Simonds

Carter, Irving Willis

Carvill, Alonzo Harper

Chaplin, Jeanette Evangeline

Chapman, Everett Thomas

Chapman, Harry Wey

Chase, Alice Elizabeth Guild

Chick, Margaret Amy

Chick, Stanley

Clemons, Samuel Wadsworth

Clifford, Harold Linscott

Coburn, Martha Alice

Coffin, Charles Frederick

Cushman, William Parsons

Danforth, Hugh Nagles

Daniels, Clyde Folsom

Davee, Everett Willard

Dinsmore, Ernest LeRoy, B. A.

Dinsmore, Mary Crane

Dixon, Esther Margaret

Drew, Laurence Evans

Elden, Nellie May

Emery, Helen Rickter
University of Maine

Faulkner, Harold Clark
Faulkner, William Thomas
Fitch, Leroy Allen
Foss, Maurice Colby
Gordon, Adelbert Willis
Superintendent and Teacher.

Faulkner, William Thomas
Lynn, Mass.
Ch. Eh. Rm.

Fitch, Leroy Allen
East Sebago
Ps. Ch. Rm.

Foss, Maurice Colby
New Portland
Ps. Rm. Eh. Ch.

Gordon, Adelbert Willis
West Sullivan
Lt. Rm.

Gould, Ralph Wadlin
Chapel

Gould, William Sanford
Dexter
Ps. Ec. Rm.

Graves, Justin Dwight
Orono
Eh. Rm. Ed.

Graves, Margaret Edwina
Orono
Eh. Rm.

Hammond, Arthur Augustus
Bridgeport, Conn.
Ch. Ms.

Hanley, Elizabeth Fitzgerald
Thomaston
Eh. Lt. Hy.

Teacher.

Harris, Abram
Evanston, Ill.
Ed. Rm.

Hart, Alice Pottle
Orono
Rm.

Harvey, Florence Evelyn
Orono
Ms.

Hatch, Roy Otis
Orono
Ms.

Haynes, Evangeline Mabel
Old Town
Rm.

Teacher.

Hill, Florence
Norway, Mass.
Ed.

Hodgdon, Daniel Russell
Gorham
Ec. Ps. Ms. Gm. Ed.

Teacher.

Hodgdon, Leona Fogg
Gorham
Ec. Eh. Rm. Hy.

Assistant Teacher.

Hodgkins, Alden E., B. S.
Damariscotta Mills
Ec. Ed.

Teacher.

Hopkins, Florence May
Detroit, Mich.
Gm. Ed. Ec.

Librarian.

Howard, Ethel Louisa
Farmington
Hy. Ec.

Assistant Teacher.

Howard, George Crosby
Orono
Ed. Eh. Ec.

Pastor, Methodist Episcopal Church.

Jewett, Donald Campbell
Cherryfield
Lt. Ms. Eh.

Jewett, Frances Campbell, A. B.
Cherryfield
Lt. Ms. Eh.

District Superintendent.

Johnson, Chester Cleveland
Portland
Eh. Hy. Ec. Ch.

Kelleher, Adrian Fitzgerald
Orono
Bl. Ch.

Kelleher, Marie Therese
Orono
Ed.

Teacher.

Langstroth, Maud, Fh. B.
Rockland
Lt. Gm. Rm. Hy.

Teacher.
Catalog of Students

Leary, Herbert Daniel
Leong, Yuen Foo
Littlefield, Joseph Philip
Linn, Tse-sheng
Loring, Paul Cushing
Lovely, Claude Gerald
McBride, Herbert Clayton Grover
McGee, Maude Ellen
Teacher.
McLeod, Catharene Gould
McSkimmon, Anna Belle
Maddocks, Chester Arthur
Teacher.
Mason, William
Morse, Mary Leland
Mosher, Frances Belle
Teacher.
Mullins, William
Nutter, William, A. B.
Principal.
O'Connell, Charles Leslie, M. A.
Teacher.
Farlin, Amber Lorene, A. B.
Teacher.
Parlin, John Crawford
Peabody, Ellen Holway
Teacher.
Pearl, Maud DeWitt, A. B.
Reed, Geneva Alice
Robinson, Ralph Sylvester
Principal.
Rowe, Henry
Rowell, Frank Lester
District Superintendent.
Sampson, Albert Edward
Schierloh, August Herman Theodore
Shaw, Louis Ethelbert
Small, Allana Butler, A. B.
Head of Dept. of English.
Small, Irving Wheelock
Principal.

Canton, China Ed. Eh. Rm.
Ogunquit Eh.
Hong Kong, China Ed. Eh.
Yarmouthville Ch. Eh. Rm.
Old Town Gm. Hy.
Easton Ms. Hy.
Orono Ed. Eh.

Old Town Rm.
Bangor Ed. Gm. Rm.
Ellsworth Ps. Ms. Rm.

Bangor Ms.
Orono Gm.
Orono Ed.

Brookline Ps. Ch.
Milford Rm. Ec. Ed.
Bradley Bl. Ps.

Machias Gm. Hy.
Orono Rm.
Orono Ps. Rm.
Thomaston Ch. Ps.

Old Town Eh. Rm. Lt.
Canaan Ed. Ec.

Gorham Eh. Ms. Hy.
Brooklyn, N. Y. Gm. Ch. Ed. Hy.
Orono Eh. Ps. Ec.
Cherryfield Eh. Ed.

South Beddington Ec. Ed. Eh. Rm.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Town</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small, Lillian Maude</td>
<td>Teacher.</td>
<td>Pownal</td>
<td>Ch. Ps. Eh. Bl.</td>
</tr>
<tr>
<td>Small, Mertice Winton</td>
<td>Teacher.</td>
<td>Stonington</td>
<td>Lt. Rm. Eh. Bl.</td>
</tr>
<tr>
<td>Small, Nathan Houston</td>
<td></td>
<td>Belfast</td>
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Catalog of Students

Winters, Amos Arthur
Woods, Leroy Leonard
Principal.
Wormwood, Carolyn Imogen
Wu, Maen Chang
Young, George Edgar
Young, Mary Kathleen
Assistant Teacher.

Waterville
Hy. Rm. Ps. Ec.
Wells
Ch. Ms. Ed.

Old Town
Rm.

Wells
Mrs. Rm.

Jacksonville
Eh. F's. Gm. Ch. Lt.

WINTER COURSES

GENERAL AGRICULTURE

Devine, John M.
Edwards, Ara
Hardy, Joseph
Heath, Harold Melville
Jones, Limer L.
Jones, Leonard Ellwood
Libby, Lara Charles
McGrath, John A.
McLaughlin, Harry James
Peters, Dr. W. C.
Piper, Seavey Allan
Ross, John Willis
Smith, Ernest Clifton
Stratton, Chester Winfield
Sullivan, Harold W.

Coopers Mills
Lincoln
Winterport
Readfield Depot
Litchfield, R. F. D. No. 17
Lisbon Falls
Lincoln
Gardiner, R. F. D.
Frankfort
Bangor
Troy
Clark's Mills
Kennebunkport
Hancock
Kent's Hill

POULTRY MANAGEMENT

Aubin, Sylvanus L.
Baker, Ernest D.
Bates, Fred O.
Boyle, John J.
Burnell, Fred G.
Cobb, Norman D.
Crabtree, Arthur E.
Dillingham, Charles A.
Flagg, Louis L.
Freese, F. Drummond
Friede, Margaret
French, Adelbert O.
Greeley, Horace P.
Heath, Harold M.

Great Works
Bangor
Lagrange
Portland
St. Albans, Vermont
Newbury, Vermont
Hancock
Hampden
Togus
Bangor
St. Petersburg, Russia
Fort Fairfield
Bangor
Readfield Depot

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University of Maine

Higgins, Jr., Frederick A. Van Buren
Hodges, D. S. South Brewer
Hoyt, Arthur B. North Orrington
Kendall, Nathan G. Orrington
Kendall, William A. Bangor
Knight, Everett S. Limerick
Labree, Frank Bangor
Leslie, E. W. Millinocket
Linn, Robert D. Milford
Loudfoot, John Athens
McKenney, Julia F. Stillwater
Morton, Albert E. Gorham
Perry, Earl Bangor
Perry, Walter F. Bangor
Pollard, Frank J. Bangor
Robinson, George S. Old Town
Smith, Mark B. Morrisville, Vermont
Stratton, Charles C. Hancock
Tabor, Thomas T. Stillwater
Thomas, Edna Eliot
Thomas, William Milford
Tupper, Frank H. Bangor
Tuttle, Edward D. Newton, Massachusetts
Wadsworth, C. S. Medford, Massachusetts
Washburn, A. A. Bangor
Wilson, Jr., Charles W. Bangor
GENERAL SUMMARY

Faculty

President 1
Professors 34
Associate Professors 7
Assistant Professors 13
Instructors 26
Lecturers 5
Tutors 3
Assistants 4
Additional Instructors in the Summer Term 6

Total 93

Other Officers 19

College of Arts and Sciences 45
College of Agriculture 40
College of Technology 46
College of Pharmacy 32
College of Law 11
Agricultural Experiment Station 23

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

Students

Graduate Students 7
Seniors 103
Juniors 133
Sophomores 120
Freshmen 158
Special Students 48
Short Pharmacy, Second Year 6

First Year 13 19
Teachers’ Course in Agriculture 1
School Course in Agriculture, Second Year 5

First Year 13 19

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University of Maine

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**Classification by Residence**

Maine, by counties:
- Androscoggin: 32
- Aroostook: 29
- Cumberland: 91
- Franklin: 19
- Hancock: 43
- Kennebec: 33
- Knox: 16
- Lincoln: 10
- Oxford: 21
- Penobscot: 205
- Piscataquis: 23
- Sagadahoc: 10
- Somerset: 23
- Waldo: 20
- Washington: 44
- York: 43

- Connecticut: 6
- Illinois: 1
- Massachusetts: 129
- Michigan: 1
- New Hampshire: 15
- New York: 12
- Ohio: 2
- Pennsylvania: 2
- Rhode Island: 3
- Tennessee: 2

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General Summary

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<td>China</td>
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Total: 850

Classification by Colleges

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Total: 850
### University of Maine

#### STUDENTS REGISTERED FOR FARMERS’ WEEK, 1909

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University of Maine

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Folsom, Mrs. E. O. Stillwater Gray, F. Old Town
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French, H. F. Glenburn Griffin, F. L. Levant
French, Mrs. H. F. Glenburn Griffin, H. L. Caribou
Friede, Margaret St. Petersburg, Russia Griffin, H. W. Bangor

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Gardner, Mrs. O. Rockland Haggett, C. E. South Newcastle
Gardner, Mrs. V. R. Orono Ham, Mrs. A. J. Alton
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Garland, Mrs. C. A. Bangor Hanson, Mrs. H. H. Orono
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Garland, Mrs. C. L. Stillwater Harding, Mrs. B. F. Danforth
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Gilman, M. E. Gilman Hashey, D. Orono
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Goodridge, O. T. Orono Hitchings, E. F. Waterville
Goodwin, Mrs. E. S. North Vassalboro Hitchings, Mrs. E. F. Waterville

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Goodwin, Mrs. W. F. Orono Hogan, A. J. Orono
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Grange, Mrs. G. A. Smyrna Mills Homer, James Bangor
Grant, F. H. Bangor Hopkins, Mrs. G. H. Bangor
Graves, Mrs. A. M. Orono Hosmer, R. E. East Wilton
Graves, E. C. Northeast Harbor Hoyt, J. W. Dexter
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University of Maine
Catalog of Students

Ropes, Marvin Bangor
Rowe, H. W. Brewer
Rowe, Mrs. H. W. Brewer
Russell, Aseneth Orono
Russell, Mrs. F. L. Orono
Russell, James Old Town
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Sawtelle, A. M. Orono
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Sinclair, Mrs. W. Manmouth
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Smith, Mrs. C. A. Orono
Smith, C C. Stillwater
Smith, Edna Stillwater
Smith, E. F. Hudson
Smith, Mrs. E. F. Hudson
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Smith, Mrs. Ira Bangor
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Smith, Payson Augusta
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Snow, H. A. Orono
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Spearen, Coldie Orono
Spearen, Manley Orono
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Spencer, Mrs. W. W. Argyle
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Stanislaus, Francis Lincoln
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Stover, O. O. Freeport
Stevens, C. S. Bangor
Stevens, Charles Orono
Stevens, Mrs. E. V. Orono
Stevens, Mrs. H. J. Bangor
Stevens, Mrs. J. S. Orono
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Sterry, F. D. Orono
Stewart, H. H. Bangor
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Straw, Harold Guilford
Sufface, Mrs. F. M. Orono
Swazey, J. N. Lincoln
Swiftser, F. R. Cumberland Center
Talbot, Mrs. W. W. Bangor
Tarr, L. G. Mapleton
Taylor, J. M. Hermon
Terrill, Mrs. I. Old Town
Terrill, Myrtle Stillwater
Thaxter, Mrs. A. H. Bangor
Thayer, Mildred Bangor
Thompson, Mrs. E. D. Bangor
Thompson, Grace Orono
Thurston, Mrs. E. M. Kenduskeag
Tower, Mrs. G. E. Orono
Towle, A. H. Veazie
Tracy, A. B. St. Albans
Tracy, Mrs. A. B. St. Albans
Treadwell, Mrs. S. G. Brewer
STUDENTS WHO HAVE BEEN ENROLLED IN THE CORRESPONDENCE COURSES SINCE DECEMBER FIRST, 1908.
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