1911

Catalog of the University of Maine, 1911-1912

University of Maine - Main

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Catalog of the University of Maine
1911-1912
KEY TO MAP.

1 Athletic Field
2 Grand Stand
3 Beta Theta Pi House
4 Tennis Courts
5 Pumping Station
6 Janitor's House
7 Dormitory and Comm
8 Wingate Hall
9 Fernald Hall
10 Power House
11 Alumni Hall
12 Recitation Building
13 Coburn Hall
14 President's House
15 Observatory
16 Horticultural Building
17 Holmes Hall
18 Professors' Houses
19 Stable
20 Dairy Building
21 Barns
22 Farm Superintendent's House
23 Professor's House
24 Kappa Sigma House
25 Mt. Vernon House
26 Phi Gamma Delta House
27 B. O. & O. Waiting Room
28 Lord Hall
29 Theta Epsilon House
30 Phi Kappa Sigma House
31 Sigma Alpha Epsilon House
32 Storehouse
33 Infirmary
34 Library
35 Farm Buildings
36 Heating Plant
37 Winslow Hall
38 Theta Chi House
39 Phi Eta Kappa House
40 Stock Judging Pavilion
41 Delta Tau Delta House
42 Hannibal Hall
43 Professors' House
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CALENDAR

FALL SEMESTER, 1911

September 15-19 inclusive, Arrearage examinations.
September 15-19 inclusive, Entrance examinations.
September 20, Wednesday, Registration begins, 1.30 p. m.
September 21, Thursday, Fall semester begins, 1.30 p. m.
October 12, Thursday, Columbus day, a holiday.
November 28, Tuesday, Meeting of the Board of Trustees.
November 29, Wednesday, Thanksgiving recess begins, 5.10 p. m.

December 4, Monday, Thanksgiving recess ends, 12.00 m.
December 8, Friday, Sophomore prize declamations.
December 22, Friday, Christmas recess begins, 5.10 p. m.

January 2, Tuesday, Christmas recess ends, 8.00 a.m.
February 2, Friday, Fall semester ends, 5.10 p. m.

SPRING SEMESTER, 1912

February 3, Saturday, Registration.
February 5, Monday, Spring semester begins.
February 22, Thursday, Washington's birthday, a holiday.
April 1, Monday, Spring recess begins, 7.45 a. m.
April 8, Monday, Spring recess ends, 7.45 a. m.
April 19, Friday, Patriots' day, a holiday.
May 1, Wednesday, An outline of Theses must be passed in to the Major Instructor.
May 30, Thursday, Memorial day, a holiday.
June 3, Monday, Completed Theses must be deposited at the Library, 12.00 m.
June 5-8, Entrance examinations.
June 5, Wednesday, 8.00 a. m. Algebra.

Elementary Algebra
(Short Pharmacy).
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.

June 6, Thursday,
University of Maine

10.00 A. M. French.
   German.
   Geography
   (Short Pharmacy).

1.30 P. M. English.
   English Grammar
   (Short Pharmacy).

4.30 P. M. English History.

June 7, Friday,

8.00 A. M. American History and
   Civil Government.
   American History
   (Short Pharmacy).
   Trigonometry.

10.00 A. M. Plane Geometry.

1.30 P. M. Physics.

June 8, Saturday,

8.00 A. M. Greek.
   Physiology.

10.00 A. M. Greek History.

1.30 P. M. Physiography.

June 9, Sunday,

Baccalaureate address.

June 10, Monday,

Class day.

Reception by the President.

June 11, Tuesday,

Meeting of the Board of Trustees.
   Commencement dinner.
   Reception by the fraternities.
   Alumni luncheon; alumnae luncheon.
   Meeting of the Alumni Association.

June 12, Wednesday,

Commencement.

Commencement ball.

SUMMER TERM

June 26, Wednesday,

Summer term begins.

August 6, Tuesday,

Summer term ends.

FALL SEMESTER, 1912

September 13-17,
Arrearage examinations.

September 13-17,
Entrance examinations.

September 13, Friday,
8.00 A. M. Algebra.
   Elementary Algebra
   (Short Pharmacy).

10.00 A. M. Chemistry.
   Botany.
Calendar

September 14, Saturday,
1:30 p. m. Latin.
4:30 p. m. Roman History.
8:00 a. m. Arithmetic
(Short Pharmacy).
Solid Geometry.

September 14, Saturday,
10:00 a. m. French.
German.
Geography
(Short Pharmacy.)
1:30 p. m. English.
English Grammar
(Short Pharmacy).
4:30 p. m. English History.

September 16, Monday,
8:00 a. m. American History and
Civil Government.
American History
(Short Pharmacy).
Trigonometry.

September 17, Tuesday,
8:00 a. m. Greek.
Physiology.
10:00 a. m. Greek History.
1:30 p. m. Physiography.

September 18, Wednesday,
First Chapel service, 11:00 a. m.

September 19, Thursday,
Registration begins, 1:30 p. m.
Columbus Day, a holiday.

October 12, Saturday,
Meeting of the Board of Trustees.

November 26, Tuesday,
Thanksgiving recess begins, 5:10 p. m.

November 27, Wednesday,
Thanksgiving recess ends, 12:00 p. m.

December 2, Monday,
Sophomore prize declamations.

December 6, Friday,
Christmas recess begins, 5:10 p. m.

December 22, Sunday,

1913

January 2, Thursday,
Christmas recess ends, 8:00 a. m.

January 31, Friday,
Fall semester ends, 5:10 p. m.

SPRING SEMESTER, 1913

February 1, Saturday,
Registration.

February 3, Monday,
Spring semester begins.

June 11, Wednesday,
COMMENCEMENT.
University of Maine

CALENDAR OF THE COLLEGE OF LAW

1911
October 4, Wednesday, Fall term begins.
December 20, Wednesday, Fall term ends.

1912
January 3, Wednesday, Winter term begins.
March 13, Wednesday, Winter term ends.
March 20, Wednesday, Spring term begins.
June 12, Wednesday, COMMENCEMENT.
October 2, Wednesday, Fall term begins.
December 18, Wednesday, Fall term ends.

1913
January 1, Wednesday, Winter term begins.
March 12, Wednesday, Winter term ends.
March 19, Wednesday, Spring term begins.
June 11, Wednesday, COMMENCEMENT.
THE BOARD OF TRUSTEES

Hon. WILLIAM THOMAS HAINES, B. S., LL. B., LL. D., President
Term expires April 22, 1913
Waterville

Hon. SAMUEL WADSWORTH GOULD, B. S., Clerk
Term expires April 16, 1914
Skowhegan

EDWIN JAMES HASKELL, B. S.
Term expires December 31, 1913
Westbrook

Hon. SUMNER PETER MILLS
Term expires September 10, 1914
Farmington

JOHN MARSHALL OAK, B. S.
Term expires April 2, 1915
Bangor

Hon. CHARLES LESTER JONES
Term expires April 17, 1917
Corinna

FREELAND JONES, LL. B.
Term expires May 31, 1918
Bangor

OSCAR RUGG WISH
Term expires April 13, 1912
Portland

EXECUTIVE COMMITTEE
Trustees HAINES, OAK, and F. JONES
THE EXPERIMENT STATION COUNCIL

ROBERT JUDSON ALEY, Ph. D., LL. D. President
DIRECTOR CHARLES DAYTON WOODS, Sc. D.
CHARLES LESTER JONES, Corinna Secretary
SAMUEL WADSWORTH COULD, B. S., Skowhegan Committee
OSCAR RUGG WISH, Portland
JOHN PATRICK BUCKLEY, Stroudwater

EUGENE HARVEY LIBBY, Auburn Commissioner of Agriculture
RINALDO LINCOLN CUMMINGS, West Paris State Grange

RUTILLUS ALDEN, Winthrop State Pomological Society
JAMES MONROE BARTLETT, M. S. State Dairymen's Association
EDITH MARION PATCH, M. S., Ph. D.
WARNER JACKSON MORSE, M. S.
RAYMOND PEARL, Ph. D.
HERMAN HERBERT HANSON, M. S.
EUGENE HETTER HUMBERT, Ph. D.
CHARLES EDWARD LEWIS, Ph. D.

OSKAR AUGUSTUS JOHANNSEN, Ph. D.
WALTER WEIDENFELD BOONSS, B. S.

Members

of the

Station Staff
OFFICERS OF ADMINISTRATION

OF THE UNIVERSITY

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JAMES NORRIS HART, Dean
CHARLES JOHN DUNN, Treasurer
ELIZABETH ABBOTT BALENTINE, Secretary
JAMES ADRIAN GANNETT, Commercial Secretary

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LEON STEPHEN MERRILL, Dean of the College of Agriculture
JAMES STACY STEVENS, Dean of the College of Arts and Sciences
CHARLES DAYTON WOODS, Director of the Experiment Station
WILLIAM EMANUEL WALZ, Dean of the College of Law
HAROLD SHERBURNE BOARDMAN, Dean of the College of Technology

OF OTHER DEPARTMENTS

RALPH KNEELAND JONES, Librarian
ALBERT CHARLES VARNUM, In Charge of Military Instruction
EDGAR RAMEY WINGARD, Director of Athletics
THE FACULTY OF INSTRUCTION AND INVESTIGATION

PROFESSORS

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President

MERRITT CALDWELL FERNALD, Ph. D., LL. D. 54 Main Street
Emeritus Professor of Philosophy

JAMES MONROE BARTLETT, M. S. College Street
Chemist in the Experiment Station

LUCIUS HERBERT MERRILL, Sc. D. 100 Main Street
Professor of Biological and Agricultural Chemistry

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

Dean of the University

FREMONT LINCOLN RUSSELL, B. S., V. S. Campus
Professor of Bacteriology and Veterinary Science

JAMES STACY STEVENS, M. S., LL. D. 99 Main Street
Professor of Physics

Dean of the College of Arts and Sciences

CHARLES DAYTON WOODS, Sc. D. 55 Main Street
Director of the Experiment Station

JOHN HOMER HUDDILSTON, Ph. D. 105 Main Street
Professor of Greek

WILLIAM EMANUEL WALZ, M. A., LL. B., LITT. D. 8 Fifth Street, Bangor
Professor of Law

Dean of the College of Law

WILBUR FISK JACKMAN, B. S., PH. C. 38 Pine Street
Professor of Pharmacy

RALPH KNEELAND JONES, B. S. 26 Bennoch Street
Librarian

JACOB BERNARD SEGALL, Ph. D. 61 Main Street
Professor of Romance Languages

*Arranged in groups in order of seniority of appointment.
Faculty

HAROLD SHERBURNE BOARDMAN, C. E. 80 Main Street
Professor of Civil Engineering
Dean of the College of Technology

GEORGE DAVIS CHASE, Ph. D. 59 Main Street
Professor of Latin

CAROLINE COLVIN, Ph. D. Campus
Professor of History

ARTHUR CRAWFORD JEWETT, B. S. 104 Main Street
Professor of Mechanical Engineering

WALTER KIERSTEAD GANONG, B Sc. 61 Main Street
Professor of Electrical Engineering

WARNER JACKSON MORSE, M. S. 33 North Main Street
Plant Pathologist in the Experiment Station

*ROBERT JAMES SPRAGUE, Ph. D. 32 Charles Street, Bangor
Professor of Economics and Sociology

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

RAYMOND PEARL, Ph. D. College Street
Biologist in the Experiment Station

PERCY ANDERSON CAMPEL, M. S. A. Campus
Professor of Animal Industry

CHARLES BARTO BROWN, C. E. 97 Main Street
Professor of Railroad Engineering

WALLACE CRAIG, Ph. D. 71 North Main Street
Professor of Philosophy

ROLAND PALMER GRAY, M. A. College Street
Professor of English

RALPH HARPER McKEE, Ph. D. College Street
Professor of Chemistry

GARRETT WILLIAM THOMPSON, Ph. D. The Colonial, Bangor
Professor of German

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

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

ALBERT CHARLES VARNUM, LIEUTENANT-COLONEL, U. S. A. 64 Grove Street, Bangor
Professor of Military Science and Tactics

* Absent on leave from September 1, 1911, to September 1, 1912.
University of Maine

OSKAR AUGUSTUS JOHANNSEN, Ph. D.  
Entomologist in the Experiment Station  
3 Pond Street

MIXTIN ASBURY CHRYSLER, Ph. D.  
Professor of Biology  
1 Pond Street

JOHN MANVERS BRISCOE, M. F.  
Professor of Forestry  
The Colonial, Bangor

LEON STEPHEN MERRILL, M. D.  
Dean of the College of Agriculture  
Director of Extension Work  
Campus

EDGAR RAMEY WINGARD, M. S.  
Professor of Physical Culture  
University Inn  
Director of Athletics

ARTHUR JULIUS JONES, Ph. D.  
Professor of Education  
78 North Main Street

JOHN COULTER HOCKENBERRY, Ph. D.  
Professor of Education (Summer Term)  
Westfield, Mass.

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

GEORGE WARE STEPHENS, Ph. D.  
Acting Professor of Economics and Sociology  
76 North Main Street

EDITH MARION PATCH, M. S., Ph. D.  
Associate Entomologist in the Experiment Station  
University Inn

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  
76 North Main Street

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

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

EUGENE PETER HUMBERT, Ph. D.  
Associate Biologist in the Experiment Station  
82 North Main Street

EDSON FORBES HITCHINGS, C. E., M. S.  
Associate Professor of Horticulture  
Mill Street

WILLIAM LEROY SLATE, Jr., B. S. (Agr.)  
Associate Professor of Agronomy  
University Inn
Faculty

ANDREW PAUL RAGGIO, Ph. D. University Inn
Associate Professor of Romance Languages

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

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

LEON ELMER WOODMAN, Ph. D. 20 Mill Street
Assistant Professor of Physics

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

LAURA COMSTOCK 24 Main Street
Assistant Professor of Domestic Science

PAUL LEONARD BEAN, B. S. Forest Avenue
Assistant Professor of Civil Engineering

TRUMAN LEIGH HAMLIN, M. A. Stillwater
Assistant Professor of Mathematics

ALBERT THEODORE CHILDS, B. S., E. E. 55 Main Street
Assistant Professor of Electrical Engineering

WINSLOW Hobart Herschel, B. A. College Street
Assistant Professor of Mechanical Engineering

WILLIAM FREEMAN SCHOPPE, B. S. 82 North Main Street
Assistant Professor of Animal Industry

ALICE MIDDLETON BORING, Ph. D. University Inn
Assistant Professor of Zoology

INSTRUCTORS

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 College 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

LOWELL JACOB REED, B. S. College Street
Instructor in Mathematics

* Absent on Leave.
University of Maine

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

MAYNE ROSE CURTIS, M. A. University Inn
Assistant Biologist in the Experiment Station

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

WALTER ELWOOD FARNHAM Forest Street
Instructor in Drawing

ROBERT RUTHERFORD DRUMMOND, Ph. D. University Inn
Instructor in German

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

SHERMAN DANIEL CHAMBERS, B. S. University Inn
Instructor in Mathematics

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

ERNEST CONANT CHESWELL 57 Main Street
Instructor in Electrical Engineering

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

HELENE JULIE RAICHE Cambridge, Mass.
Instructor in French (Summer Term)

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

LLOYD MEEKS BURGHART, B. A. College Street
Instructor in Chemistry

VICTOR ALVIN KETCHAM, B. A., LL. B. Hannibal Hamlin Hall
Instructor in English

JULIUS ERNEST KAULFUSS, B. S. Main Street
Instructor in Civil Engineering

ALVIN KIMBALL BURKE, B. S. Park Street
Assistant Chemist in the Experiment Station

ARTHUR MOSES BUSWELL, B. A. Hannibal Hamlin Hall
Instructor in Industrial Chemistry

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

RALPH WOODBURY REDMAN 37 North Main Street
Instructor in Animal Industry

CORNELIA PALMER 24 Main Street
Instructor in Domestic Science
Faculty

RAYMOND BROWN KITTREDGE, B. S.  82 North Main Street
   Instructor in Civil Engineering
EARLE OVANDO WHITTIER, B. S.  College Street
   Instructor in Chemistry
CLAYTON ULREY, A. B.  78 Main Street
   Instructor in Physics
GEORGE MARTIN WEIMAR, A. M.  Hoboken, N. J.
   Instructor in English (Summer Term)
THOMAS GODDARD WRIGHT, M. A.  New Haven, Conn.
   Instructor in English (Summer Term)
WALTER LETHBY LEIGHTON, Ph. D.  Hannibal Hamlin Hall
   Instructor in English
HOWARD MADISON PARSHLEY, A. M.  14 Bennoch Street
   Instructor in Zoology
WILLIAM KISLER HUFF, B. A.  Hannibal Hamlin Hall
   Instructor in English
CARL HENRY LEKBERG, B. S.  2 North Main Street
   Instructor in Mechanical Engineering
EDWARD ARTHUR STANFORD, B. S.  West Kennebunk, Maine
   Itinerant Instructor in Farm Management
ALLEN HOLT BLAISDELL, B. S.  57 Fifth Street, Bangor
   Tutor in Mechanical Engineering
EMILE SAM SAMRA, B. ès L.  Hannibal Hamlin Hall
   Tutor in German

LECTURERS

FOREST JOHN MARTIN, LL. B.  Kenduskeag Ave., Bangor
   Resident Lecturer on Common Law Pleading and Maine Practice
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 HARWARD BLAKE, LL. B., LL. D.  107 Court St., Bangor
   Lecturer on Admiralty
ISAAC WATSON DYER, B. A.  Portland
   Lecturer on Federal Jurisdiction and Procedure, and on Private Corporations
HERBERT MILTON HEATH, M. A.  Augusta
   Lecturer on Cross-Examinations
University of Maine

ASSISTANTS

ELLA MAY TAFT, B. A. 14 Bennoch Street
Cataloger in Library

NATALIE FREDERIQUE HOWE, B. S. College Street
Assistant in Library

EMPLOYEES

ANDREW MAYHEW SHAW College Street
Superintendent of Greenhouses and Gardens

CHARLES HENRY BOLSTER Campus
Foreman of the Farm

HALSEY RICHARDSON WING Campus
Head Janitor and Meteorological Observer

GEORGE ABRAHAM COLBURN Bennoch Street
Head Carpenter

GRACE MARY COLBURN Bennoch Street
Cashier

FRANK EVANS OAK 239 Cedar Street, Bangor
Assistant to the Treasurer, and Bookkeeper

JENNIE HAMLIN WAITE University Inn
Secretary to the President

MARIETTA HOOVER DUNN Campus
Superintendent of Mount Vernon House

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

BLANCHE FOLSON POOLER Stillwater
Stenographer in the Experiment Station

ADDIE WEED Veazie
Stenographer to the Deans and the Secretary

GEM MAE COOMBS Stillwater
Stenographer in the Experiment Station

MARGERY STORMANN Stillwater
Stenographer in the College of Technology

LOTTIE ESTELLE MCPHERTERS 7 Main Street
Computer in the Experiment Station

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

LEIGH IRVING HARVEY Bangor
Stenographer in the College of Law
Employees

Harry Endicott Upton
Superintendent of the University Poultry Plant

Walter Anderson
Poultryman in the Experiment Station

William Shaw
Herdsman

John Summers
Laboratory Assistant in the Experiment Station

Harry Alexander
Laboratory Assistant in the Experiment Station

William Shaw
Herdsman

John Summers
Laboratory Assistant in the Experiment Station

Harry Alexander
Laboratory Assistant in the Experiment Station

Wellington Sinclair
Superintendent of Experiment Station Farm, Monmouth, Maine

Elmer Robert Tobie, B. S.
University Inn

Inspector in the Experiment Station

Albert Verrill, B. S.
Inspector in the Experiment Station

Edgar Albert White
Inspector in the Experiment Station


campus


standing committees of the faculty

Admission
Hart, Boardman, Merrill (L. S.), Stevens, Walz

Advanced Degrees
Chase, Colvin, McKee, Pearl, Segall, Walz

Athletics
Jones, (R. K.), Bean, Boardman, Jones (A. J.), Wingard

Attendance
Brown (C. B.), Craig, Stephens

Auditing
Merrill (L. H.), Russell, Segall, Woodman

Chapel
Stevens, Merrill (L. H.), Simmons, Thompson (G. A.)
University of Maine

Commencement
Woods, Canong, Jones (R. K.), Merrill (L. H.)

Delinquent Students
Boardman, Campbell, Chrysler, Segall

Employment
Merrill (L. S.), Carter, Gannett

Fitting Schools
Gray, Chase, Hart, Jones (A. J.)

Health
Wingard, Comstock, Jackman

Honors
Chryster, Briscoe, Easley, Thompson (G. W.)

Library
Jones (R. K.), Gray, Jones (A. J.)

Organizations Other Than Athletics
McKee, Boardman, Ganong

Publications
Stevens, Jones (R. K.)

Rules
Jewett, Hart, Merrill (L. S.)

Schedule
Weston, Balentine, Hamlin, Reed

Social Affairs
Huddilstou, Colvin, Grover, Hitchings, Raggio

Student Affairs
Hart, Boardman, Merrill (L. S.), Stevens, Varnum, Walz
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. By an act of the legislature of 1897 the name of the institution was changed to the University of Maine.

**ENDOWMENT AND INCOME**

The State of Maine received by the act of Congress above referred to 210,000 acres of public land from which an endowment fund of $118,300 was realized. Former Governor Abner Coburn, of Skowhegan, for many years President of the Board of Trustees, made a bequest of
University of Maine

$100,000 to the institution. These two funds yield respectively 5% and 4% annually.

Under Acts of Congress, approved August 30, 1890, and March 4, 1907, the University receives $50,000 annually from the United States Government.

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

Under Acts of Congress approved March 2, 1887 and March 17, 1906, the University receives $30,000 annually for the maintenance of the Agricultural Experiment Station.

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 at the corner of Union and Second streets, Bangor.

THE BUILDINGS AND THEIR EQUIPMENT

Alumni Hall.—Alumni Hall was erected in 1900. The front part contains on the ground floor the offices of the President, the Dean of the University, the Secretary, the Cashier, the Trustees' Room, and two recitation rooms for the use of the mathematical department; 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. 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. Under the drill hall are the offices of the military
Buildings

instructor and the physical director, the baseball cage, lockers, lavatories, store rooms, etc.

This building also contains the university postoffice.

Coburn Hall.—Southwest of Alumni 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 store. Connected with 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.

Estabrooke Hall.—This is a wooden building used for the work of the department of English. It consists of four recitation rooms for large sections, two smaller rooms for consultation purposes, and four offices for members of the faculty. The building takes its name from the late Professor Horace Melvyn Estabrooke, who was the head of the department of English for eighteen years.

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, containing seventeen rooms devoted to the departments of chemistry and pharmacy. The balance rooms, a small lecture room, three offices, and the laboratory for advanced students are on the ground floor. Upon the second floor are the large lecture room, the laboratory for freshman work, a recitation room, an office, and the supply room. Under the roof are arranged the mineralogical laboratory, dark rooms, and a laboratory for qualitative analysis. An assay laboratory, a laboratory for water and gas analysis, a room for work in physical chemistry, and store rooms are in the basement.

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
University of Maine
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, and for the calorimeter; culture
and preparation rooms used by the plant pathologist, and rooms for the
storage of fuel, chemicals, and glass ware. The large attic is used for
the storage of samples and supplies. 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 plant patho­
ologist.

**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. capac­
ity, for tensile, and compressive tests, and one of 150,000 lbs. capacity
for tensile, compressive, and transverse tests, and a 20,000 pound trans­
verse machine. These are equipped with the necessary measuring appli­
cances. 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 watt­
meters for both direct and alternating current, the equipment includes
circuit breakers, various types of transformers, three 7½ kilowatt special
Buildings

auto-transformers 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.

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. Meteorological records for the United States Government are kept in this building.

Winslow Hall.—The Agricultural Building is the largest building on the campus. It was named in honor of Honorable E. B. Winslow, Ex-President of the Board of Trustees. The ground plan measures 63 x 100 feet and the 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 farm management, 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
University of Maine

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.

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, and dark rooms for photography.

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.

Library.—The library was completed in 1906. For its erection and furnishing the sum of $55,000 was given 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 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 Orono exchange.

College of Law Building.—This building is situated in Bangor, corner of Union and Second Streets, and dedicated to the use of the Col-
Buildings

The College of Law. It is in one of the finest parts of the city, on the car line, in a very quiet neighborhood, and within a few minutes' walk from the Court House, the Y. M. C. A., the business section of the city, the hotels, the postoffice, and the M. C. R. R. Station.

The grounds, surrounding the building, occupy nearly a whole square. They are surrounded by beautiful elms and afford ample space for tennis courts.

The building itself is a brick, granite, and slate structure, three stories high. There are twelve rooms in the main part of the building, large, commodious, and well lighted. Those on the first floor will be used as recitation rooms and are, for the most part, finished in mahogany. The reception hall, as well as the staircase leading to the second and third floors, are all of mahogany. There are four large rooms on the second floor to be devoted to library and office purposes, and four rooms on the top floor, one large enough to constitute a fine dormitory hall. The building contains four handsomely finished bath rooms, and there are a number of fine rooms in the ell. The building is lighted and heated throughout by gas and steam heat.

**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, with finding circles, driving clock, filar micrometer, and other accessories. In the transit room is a combined transit instrument and zenith telescope of three-inch aperture recently constructed by Bomberg, and a Respold 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.

**The Dairy Building.**—The Dairy Building 50 x 42 feet, contains a milk room, a butter room, a cheese room, a cold storage room, a cheese-curing room, and a testing laboratory. It is supplied with all necessary appliances for teaching the most approved methods of handling milk, cream, butter, and cheese. The building is supplied with hot and cold water. Power is furnished by a six horse-power engine.

**The Horticultural Building.**—The range of greenhouses just east of Holmes Hall covers about 4000 square feet of surface. The building is heated with steam and furnishes opportunity for a demonstration of the practical culture of flowers and vegetables under glass.

**The Poultry Plant.**—The poultry plant of the College of Agriculture consists of a two and a half story building, 25 x 40 feet, the lower
portion of which is designed for an incubator room and is built of brick with non-conducting walls. On the upper floors is located a poultry apparatus laboratory. Attached to this buildings is a brooder house, 15 x 40 feet, for winter brooding. It is equipped with a hot water heater. The fattening and killing house is 14 x 45 feet, with an interior arrangement to demonstrate crate 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 and cooling tanks. The several breeds of poultry kept by the College of Agriculture are housed in colony houses of various styles and sizes, and one long laying-house, 14 x 96 feet, divided into twelve pens especially adapted for instructional purposes.

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 2500 chicks.

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 materials similar to the large 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 Farm Buildings.—The lower barn, 100 x 50 feet, contains a cow stable with 26 stalls two grain rooms, three bull rooms, 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, and an electric motor for power. 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. The upper floor of one is used as a laboratory for classes in farm machinery.
Buildings

A modern 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 farm of the University of Maine is composed of two parcels of land aggregating 473 acres, of which 120 acres are under cultivation. The cultivated land is handled according to a definite system of rotation of crops, including hoed crops, nurse crops, and hay crops. Such grains as oats, barley, rye, and wheat are grown extensively, and potatoes and corn form a large part of the crops of the farm. The hay acreage cuts considerably more than 100 tons annually. The fertility of the land is maintained by applications of lime, barnyard dressing, commercial fertilizers, and by the turning under of green crops once in four years. It is the aim of the management to make the farm support the live stock maintained upon it. The areas of permanent pasture land form a considerable part of the farm and the remainder of it is given up to forest and orchard areas. Highmoor Farm, purchased by the State Legislature for the use of the Experiment Station, is described under that department of the University.

Hannibal Hamlin Hall.—The new dormitory is a brick building with stone trimmings, located north of Oak Hall and connected with it by a covered passage. The building is 35 feet wide and 168 feet long. It has four stories founded on a high, well lighted concrete basement, in which are located a dining room 32 x 90 feet, recreation room 26 x 32 feet, waiters' room 12 x 18 feet with lavatory, toilet, and locker room, and room for training table 12 x 26 feet. In a one-story ell adjoining the basement is the kitchen 32 x 34 feet, with pantry, ice room, coal room, toilet room, and closet. From the basement up, the building is separated into three sections by two 12-foot brick fire walls, which extend up through the roof. Each section has its own entrance, vestibule hall, and corridor. The first story of the central section has a reception hall and living room, with bath, lavatory, and shower bath on one side of the corridor, and on the other side the Y. M. C. A. rooms with toilet and lavatory. The central section in the second, third, and fourth stories is divided in each story into four chambers, with shower bath and lavatories. The two end sections in each of the four stories are divided into four suites of two bedrooms and a study room, with a toilet, lavatories, and shower bath for the use of the four suites. The building is covered with a tar and gravel roof. The inte-
rior is of ash; the floor is hard wood, with the exception of the kitchen, which has a cement floor, and the toilets, which have terrazzo floors. The walls are decorated with paper. The building is heated by steam and lighted by electricity. There are 96 rooms in the two end sections and 17 in the central section, making a total of 113 rooms above the basement. Each bedroom has an ample clothes closet.

The Mt. Vernon House.—This is a wooden building, completed in 1898, which provides dormitory accommodations for women. It is situated near the recitation and laboratory buildings upon a site overlooking the campus, and 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. The Mt. Vernon House is under the supervision of a superintendent.

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 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.

The Infirmary.—A small wooden building has been erected on the back 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.

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

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

The pump pit is 8 x 17½ feet, the engine room 17½ x 40 feet, the boiler room 40 x 42 feet, and the proposed coal pocket 32 x 42 feet.
Buildings

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

The Power House.—This wooden building, 30 x 56 feet, north of Alumni Hall, formerly the power and heating plant of the University, is now used exclusively for laboratory purposes in connection with the department of mechanical engineering. It contains two boilers, a one hundred and fifty horse-power Babcock and Wilcox and an eighty-five horse-power Heine, a fifty horse-power Corliss engine, a fifteen horse-power Otto gasolene engine, a plain slide valve engine, and two dynamos with operating switchboard.

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.

Other Buildings.—In addition to the buildings already described, there are several others devoted to various purposes. Among these are the President’s 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-five 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
University of Maine

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 portion of these are acquired by purchase. For the most part purchases are made of books selected by heads of departments, and this method results in a collection of great working value.

The library is classified according to the Dewey system, slightly modified; there is a card catalog arranged by authors and subjects; access to the shelves is entirely unrestricted. Students may borrow three volumes at a time, to be retained three weeks, when they may be renewed unless previously called for; special permission to borrow a larger number may be obtained, when necessary, upon application to the librarian. There is a fine of two cents a day for books kept 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 OF NATURAL HISTORY

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

Geological Collections.—These collections, occupying the upper floor of the wing of Coburn Hall, are accessible daily during the college year except on Saturdays and Sundays. 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 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. Recently valuable accessions have been received from the United States National Museum.
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.

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.

Collections other than the herbarium include exhibits illustrating the manufacture of paper and of cocoa, the wood and bark features of the timber trees of Maine, conifers mounted in jars, plants used in pharmacy, commercial fibres, and artificial silk. The valuable collection of fossil plants presented by the late Professor Harvey occupies two cases.

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 Sciences. 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 departments of Greek and Latin 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), Tau Beta Pi, (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
Organizations

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.

**Student Section of the American Society of Mechanical Engineers.**—A regular organized section of this national society holds regular meetings for the presentation and discussion of engineering papers by members and by visiting engineers.

**Junior Civil Society.**—This society is composed of the members of the junior class who are enrolled in the curriculum 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.

**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 in 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.
University of Maine

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 spring semester of the junior year the five members of the class having the highest standing are elected members, and at the end of the fall semester of the senior 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 composed of the women of the faculty, the wives of the professors and instructors, and other women interested in the University. Its purpose is to promote the social welfare of the students.

The Arts Club.—This is a club composed of the professors and instructors in the College of Arts and Sciences with their wives. It meets monthly and discusses various subjects of general interest.

Tau Beta Pi.—Tau Beta Pi is an honor fraternity for engineers and has chapters in about twenty-five of the leading universities and technical schools. Elections to the fraternity take place twice a year, and are made from those juniors and seniors in engineering who have shown high mental and moral qualifications.

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.
Publications

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

The University of Maine Studies.—These are occasional publications containing reports of investigations or researches made by university officers or alumni.

The Maine Bulletin.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public. Among recent issues are bulletins relating to the Classical Curriculum, the Curricula in Agriculture, the Curriculum in Pharmacy, the College of Law, the College of Arts and Sciences, the College of Technology, the Curriculum in Forestry, the Courses in Education, the Summer Term, and Student Expenses.

Practical Husbandry.—This is a quarterly magazine published under the direction of the Agricultural Club. It is devoted to practical and technical agriculture.

The Maine Law Review.—This is a magazine published under the direction of the College of Law. It is devoted to a discussion of law cases and other current legal problems.

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 investigation of the Station.

Official Inspections.—These are published by the Maine Experiment Station, and contain the results of the work in commercial feeding stuffs, commercial fertilizers, agricultural seeds, and foods and drugs. The bulletins and "Official Inspections" are sent free on request to any resident of Maine.

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.
University of Maine

MILITARY INSTRUCTION

Military instruction is required by law. The department is in charge of an officer of the regular army, detailed by the President of the United States for this purpose. United States army rifles, model 1898, ammunition, and accoutrements are furnished by the War Department. The course makes especial 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 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 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.

With the exceptions noted below, 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. 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. No fractional credit for military work will count towards graduation. Military instruction is arranged in a four years' course. After the freshmen and sophomore years the work is elective. Students in the College of Law, the School Courses in Agriculture, the Short Curriculum in Pharmacy, and graduate students, are excused from military work. Students admitted to advanced standing may elect other work equal in credit.
Physical Training

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 freshmen two hours per week. Credit is given on the basis of three hours of physical training to one 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. Every student registering for an athletic team must pass the required physical examination.

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.

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.

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 regularity.
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 3 p.m. At these services representatives of the various religious denominations are present and address the students. During the college year of 1910-1911 the following gentlemen officiated at Vesper Services:

Professor C. M. Clark, Bangor, Maine; Bishop Robert Codman, Portland, Maine; Dean W. W. Fenn, Cambridge, Mass.; President William D. Hyde, Brunswick, Maine; President F. W. Hamilton, Tufts College, Mass.; Dr. L. O. Hartman, Ohio; and Professor A. C. Knudson, Boston, Mass.; President R. J. Aley, Orono; Professor R. J. Sprague, Bangor; Mr. E. C. Mercer, Y. M. C. A. Secretary; President A. P. Fitch, Cambridge, Mass.

GENERAL REGULATIONS

It is assumed that all students entering the University are willing to be guided by the following:

Rule of Conduct

*A student is expected to show both within and without the University respect for order, morality, and the rights of others; and such sense of personal honor as is 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, athletics, and student organizations, 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 whose absence from any class-room subject exceeds certain
Regulations and Honors

stated limits, in general ten per cent. of that subject, is dropped from that class and may be reinstated only by favorable action of the instructor and of the committee on attendance. If after reinstatement his record be unsatisfactory either to the instructor or to the committee, he is permanently dropped from that class.

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

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

SCHOLARSHIP HONORS

Honors for scholarship are of two kinds, general and special. General honors are awarded, at graduation, to students who attain an average grade of B, after the freshman year. 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 grade of B 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
University of Maine

and, if the committee so desires, also oral. The professors giving the courses shall submit to the committee papers for the honor examinations not later than one week before the date set for the examinations.

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

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 Agricultural, Chemical, Chemical Engineering, Civil Engineering, Domestic Science, Electrical Engineering, Forestry, Mechanical Engineering, or Pharmacy 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
Degrees

typewritten, unless the subject matter prevents, on paper of good quality, 8 x 10½ inches, with not less than one inch margin on the inner edge and one-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.

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 on 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 the 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 within three weeks after the opening of the first semester in which he registers for a degree.

A registration fee of $5 is charged, and an additional fee of $15 for examinations and diplomas 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 shall 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 curricula, respectively, upon the presentation of a satisfactory thesis after at least three years of professional work subsequent to graduation. A fee of $10.00 is required, payable upon presentation of the thesis, which must be submitted not later than May 20. Candidates are expected to be present in person to receive their degrees.

**STUDENT EXPENSES**

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. The table is made up for men students who room in Oak Hall or Hannibal Hamlin 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**

*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.*

<table>
<thead>
<tr>
<th>Expense</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$30.00</td>
</tr>
<tr>
<td>Registration fee and incidentals</td>
<td>30.00</td>
</tr>
<tr>
<td>Laboratory fees</td>
<td>10.00–25.00</td>
</tr>
<tr>
<td>Text books, about</td>
<td>15.00</td>
</tr>
<tr>
<td>Board, 36 weeks at $3.50</td>
<td>126.00</td>
</tr>
<tr>
<td>Heat and light for half room and general care of dormitory</td>
<td>36.00–45.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$247.00–271.00</strong></td>
</tr>
</tbody>
</table>
Expenses

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 $40.00 a year, and the registration and incidental fees are $30.00 a year, making a total of $70.00 a year.

By act of the Legislature, $30.00 per year is deducted from the above charge for students in the curricula in Agriculture, this being the amount of tuition charged at the time of the ACT. This does not apply to students in Forestry or Domestic Science.

By act 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 except those in agriculture 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.

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 university 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: Bacteriology, per course, $3.00; biology, per course, $2.00 to $3.00; chemistry, per course, $2.00 to $5.00; civil engineering, per course, $2.00 to $5.00; electrical engineering, per course, $2.50; mechanical engineering, per course, $2.00; mineralogy, per course, $2.00; pharmacy, per semester, about $3.50; physics, per course, $2.50 to $3.50; 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 $3.50 a week. Board may be obtained in clubs or private families at prices ranging from $3.50 to $4.50 a week.
University of Maine

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, dormitory, and laundry of sheets, pillow cases, and three towels.

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 other bedding, and six towels. All students who reserve rooms in either dormitory will be required to make a deposit of $5.00 before August first.

In Hannibal Hamlin Hall the prices of rooms are as follows: Suite (3 rooms) No. 102, 104, 110, 112, 202, 204, 210, 212, 302, 304, 310, 312, four students in a suite, $1.25 per student. Suite (3 rooms) No. 101, 103, 109, 111, 201, 203, 209, 211, 301, 303, 309, 311, 401, 402, 403, 404, 409, 411, 412, four students in a suite, $1.00 per student. Room (single) No. 206, 208, 306, 308, two students in a room, $1.25 per student. Room (single) No. 205, 207, 305, 307, 405, 406, 407, 408, two students in a room, $1.00 per student.

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 with board, heat, and light, and the laundry of sheets, pillow cases, and three towels per week, the charge is $85.00 a semester for two in a room. No discount is made for absence except for prolonged illness.

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

Students are required to keep a sufficient deposit with the Treasurer to cover the bills of one semester. Students living in university dormitories must make a semester deposit of $85.00, in addition to the deposit required for other semester charges. This deposit must be made in full before a student is permitted to register and attend classes. No students will be allowed to graduate who is in debt to the treasury.
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.

Western Alumni Association Scholarship.—Tuition for the sophomore year is awarded that student taking a regular course whose deportment is satisfactory and who makes good progress in his 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 Balentine Prize, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., LL. 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, LL. D., Waterville, a graduate of the University of the class of 1876, is awarded to that member of the senior class who writes the best thesis 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 to that member of the senior class in the agricultural curriculum who attains the highest standing.
University of Maine.

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

The Holt Prizes, the gift of Erastus Eugene Holt, A. M., M. D., LL. D., of Portland 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 New York Alumni Association Scholarship, thirty dollars, is awarded upon conditions to be determined by the Board of Trustees. In 1907-8 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 Technology, to be selected by the President and the Professors in that College.

The L. C. Bateman Prize, five dollars, is awarded to the student who shall write the best newspaper article of one column length.

The Lewiston Journal Prize, ten dollars, is awarded to a student in the College of Agriculture who shall excel in some line of work connected with dairying.

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 made the best record in his college course.

The Fraternity Scholarship Cup.—Presented to the University by the 1910 Senior Skull Society, to be awarded at Commencement to that fraternity having the highest standing in scholarship for the preceding calendar year. The cup is to be awarded for eleven years, 1910 to 1920 inclusive. The fraternity to which this cup is awarded the greatest number of times is to be the permanent owner of the cup.

The Wingard Cup.—The gift of Edgar R. Wingard to be awarded to that student who has won his "M" in athletics, and who has made the greatest improvement in his studies.

The Class of 1908 Commencement Cup.—This is awarded each year to the class having the largest percentage of its membership back for Commencement.
Admission

Father Harrington Prize, twenty dollars.—Rev. John M. Harrington, pastor of St. Mary's Church, Orono, has established an annual prize to be given to that student who writes the best essay upon modern literature. It may treat of German, English, French, Spanish, or Italian literature. The essay may be limited to any one of these literatures or to a comparative study of any number of them. This is open to any student in the University.

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 B 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 an agricultural or engineering course are admitted to the junior class without examination, provided their course has covered a sufficient amount of work in mathematics, physics, chemistry, and biology.

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
University of Maine

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. Candidates under twenty-one years of age will not be received as special students, unless they have completed the regular requirements for admission.

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

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

Admission by Examinations.

Entrance examinations are held at Orono, beginning 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. 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 given by the College Entrance Examination Board will be accepted by the University. These examinations will be held during the week June 17-22, 1912. All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application. 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

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, 159 Brown St., Providence, R. I.

ENTRANCE REQUIREMENTS

To gain admission to any of the curricula leading to the degree of B. A. or B. S., 28 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. Curricula

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>5</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>Language</th>
<th>Counts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greek</td>
<td>2</td>
</tr>
<tr>
<td>Latin</td>
<td>2</td>
</tr>
<tr>
<td>French</td>
<td>2</td>
</tr>
<tr>
<td>German</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Algebra</td>
<td>1</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>1</td>
</tr>
</tbody>
</table>
University of Maine

Chemistry (including note-book) " 2 points
Physics (including note-book) " 2 "
Biology (including note-book) " 2 "
Solid Geometry " 1 point
Roman History " 1 "
Greek History " 1 "
English History " 1 "
American History and Civil Government

The requirement in History must include either a year of Greek and Roman History, a year of English and American History, or a year of American History and Civil 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. Curricula
(Agriculture, Chemistry, Domestic Science, Engineering, Forestry, and Pharmacy.)

Required Subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Plane Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Solid Geometry (College of Technology)</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 Algebra " 1 point

Trigonometry " 1 "

* Candidates who have had three full years of algebra, including a review during the last year, and the use of a completed text book may receive credit of four points. Such a course is recommended.
Admission

** Mechanical Drawing (for technical courses) 1 "
** Manual Training (for technical courses) 1 "
Chemistry (including note-book) 2 points
Physics (including note-book) 2 "
Physiography (one-half year or one year) counts 1 point or 2 "
Biology (including note-book) counts 2 "
Botany (including note-book) 2 "
Zoology (including note-book) 2 "
Physiology 1 point
Roman History 1 "
Greek History 1 "
English History 1 "
American History and Civil Government 1 "

Candidates for admission to the B. S. curricula 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.

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 to this course 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

* * * 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 taken in the high school.
University of Maine

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 such work in the elements of rhetoric, 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 studies 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 especial 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 Prologue; Spenser's Faerie Queen, (selections); Pope's The Rape of the Lock; Goldsmith's The Deserted Village; Palgrave's Golden Treasury, (First Series) Books II and III, with especial 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 Cables; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; Dickens's Tale of Two Cities; George Eliot's Silas
Admission

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 especial 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.

Suitable texts for the second year are: About, le Roi des montagnes; Bruno, le Tour de la France; Daudet, Easier Short Tales; De la Bédollière, La Mère Michel et son chat; Erckmann-Chatrian's Stories; Foa, Contes biographiques and le Petit Robinson de Paris; Foncin le Pays de France; Labiche and Martin, la Poudre aux yeux and le Voyage de M. Perrichon; Legouvé and Labiche, la Cigale chez les fourmis; Malot, Sans famille; Mairet, la Tâche du petit Pierre; Mérimée, Colomba; Extracts from Michelet; Sarcey, le Siège de Paris; Verne’s Stories.

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; Péranger’s Poems; Corneille, le Cid and Horace; Coppée’s Poems; Daudet, la Belle-Nivernaise; La Brède, Mon oncle et mon curé; Madame de Sévigné’s Letters; Hugo, Hernani and la Chute; Labiche’s Plays; Loï, Pêcheur d’Ireland; Mignet’s Historical Writings; Molière, l’Ecorce arid le Bourgeois gentilhomme; Racine, Athalie, Andromaque, and Eschyle; George Sand’s Plays and Stories; Candeau, Mademoiselle de la Seiglière; Scribe’s Plays; Thierry, Récits; Vigny, la Canne de jone; Voltaire’s Historical Writings.
Admission

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' *Barbier de Séville*; Corneille's dramas; the elder Dumas' Prose Writings; the younger Dumas *la Question d'argent*; Hugo *Ruy Blas, Lyres, and Prose Writings*; La Fontaine's Fables; Lamartine *Graziella*; Marivaux's Plays; Molière's Plays; Musset's Plays and Poems; Pellissier *Mouvement littéraire au XIXe siècle*; Renan *Souvenirs d'enfance et de jeunesse*; Rousseau's Writings; Sainte-Beuve's Essays; Taine *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.

1. 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 inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also in the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; (5) the reading of 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in reproducing from memory sentences previously read.
The second year's work should comprise: (1) the reading of 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in translating into German easy variations upon the matter read, also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill in the rudiments of grammar, to enable the pupil first, to use his knowledge with facility in forming sentences, and second, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen, Märchen and Bilderbuch ohne Bilder; Baum­bach, Die Nonna and Der Schwiegersohn; Gerstäcker, Gerschelshausen; Heyse, L'Arrabbiata, Das Mädiwen von Treppi, and Anfang und Ende; Hillern, Höher als die Kirche; Jensen, die braune Erica; Leander, Träumereien and Kleine Geschichte; Seidel, Märchen; Stökl, Unter dem Christbaum; Storm, Immensee and Geschichten aus der Tonie; Zschokke, Der zerbrochene Krug.

The best shorter plays available are: Benedix, Der Prozess, Der Weiberfeind, and Günstige Vorzeichen; Elz, Er ist nicht eifersüchtig; Wichert, An der Majorseecke; Wilhelmi, Einer muss heiraten. Only one of these plays need be read, and the narrative style should predominate. A good selection of reading matter for the second year would be Andersen, Märchen, or Bilderbuch, or Leander, Träumereien, to the extent of about forty pages. Afterward, such a story as Das kalte Herz, or Der zerbrochene Krug; then Höher als die Kirche, or Immensee; next a good story by Heyse, Baumbach, or Seidel; last Der Prozess.

II. Advanced German.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in 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, Karl der Grosse, Aus den Kreuzzügen, Doktor Luther, Aus dem Staat Friedrichs des Grossen; Fouqué, Undine; Gerstäcker,
Admission

Irrfahrten; Coethe, Hermann und Dorothea and Iphigenic; Heine's poems and Reisebilder; Hoffman, Historische Erzählungen; Lessing, Minna von Barnhelm; Meyer, Gustav Adolf's Page; Moser, Der Bibliothekar; Riehl, Növellen, 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 Trompeter von Säkkingen; 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 entrance examination in Latin will consist of four parts as follows:

1. An examination on the elements of Latin grammar and easy translations.

2. a. An examination in sight translation of Latin prose suited to test the ability of a candidate who has read from Cæsar (Gallic War and Civil War) and Nepos (Lives) an amount not less than Cæsar, Gallic War, I-IV.
   b. Questions on the ordinary forms and constructions of Latin grammar and the translation of easy English sentences into Latin.

3. a. An examination on Cicero, speeches for the Manilnan Law and for Archias, with questions on subject-matter, literary and historical allusions, and grammar.
   b. An examination in sight translation of Latin prose adapted to candidates who have read from Cicero (speeches, letters, and De Senectute) and Sallust (Catiline and Jugurthine War) an amount not less than Cicero, speeches against Catiline I-IV, for the Manilian Law, and for Archias.
   c. A test in writing simple Latin prose which shall demand a thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school.

4. a. An examination on Vergil, Æneid, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody.

57
b. An examination in sight translation of Latin poetry adapted to candidates who have read from Vergil (Bucolics, Georgics, and Æneid) and Ovid (Metamorphoses, Fasti, and Tristia) an amount not less than Vergil, Æneid, I-VI.

A candidate may obtain separate credit for each part. Each represents a year's work and entrance credit for two points.

In parts 2 and 3 candidates must deal satisfactorily with both the sight and set passages, or they will not be given credit for either.

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

History

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

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

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

UNITED STATES HISTORY 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 four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative; quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive
Admission

integral exponents; the formulas for the \( n \)th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils are required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

Plane Geometry.—The usual theorems and constructions of good text books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

Solid Geometry.—The usual theorems and constructions of good text books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

Trigonometry.—Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle; the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles, and practical applications, including the solution of right spherical triangles.

Advanced Algebra.—Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

Sciences

*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 zoölogy alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoölogy; but in such cases it must be treated as an integral part of the subject under consideration.

* Chemistry.—The necessary ground is covered by the following textbooks; Brownlee and others, Hessler and Smith, McPherson and Henderson, Newell.

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.

The requirements in botany and zoölogy are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the board. The note book should consist of properly labelled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

* 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.
ORGANIZATION OF THE UNIVERSITY

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

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

COLLEGE OF ARTS AND SCIENCES
The Bachelor of Arts Curricula

COLLEGE OF LAW

COLLEGE OF TECHNOLOGY
The Chemical Curriculum
The Chemical Engineering Curriculum
The Civil Engineering Curriculum
The Electrical Engineering Curriculum
The Mechanical Engineering Curriculum
The Pharmacy Curriculum

EXPERIMENT STATION

GENERAL STATEMENT
The College of Agriculture, the College of Arts and Sciences, and the College of Technology offer four years' courses leading to the bachelor's degree. The College of Law offers a three years' course leading to the bachelor's degree.

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
University of Maine

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 four-fifths credits. In the College of Agriculture and the College of Technology 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 subjects not requiring preparation, count as half time, unless otherwise specified. Such subjects 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' curriculum of study by securing twenty-five or thirty credits, according to the college in which they are registered.

The College of Arts and Sciences has the following graduation requirements: (One year's work in college is equivalent to two years' work in preparatory school.)

1. English, one year, five hours a week, or the equivalent divided between two years.
2. French, German, and Spanish, one year each of two of these languages, five hours a week, taken in college or preparatory school.
3. Science (biology, chemistry, or physics), 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 11-19, inclusive; Latin 1, Latin 2, Latin 25; Philosophy 6.

The College of Agriculture has the following requirements for graduation:

1. English, one year, five hours a week, or the equivalent divided between two or three years.
2. Mathematics, one year, five hours a week.
3. Science (biology, chemistry, or physics), one year, five hours a week, of which time an important part must be occupied with laboratory work.
Organization of the University

4. Language (French, German, Greek, or Latin), the equivalent of one-half 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.

5. Military Science and Tactics, two years, three hours a week.

6. Physical Training, one year, two hours a week.

The College of Technology has 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 (biology, chemistry, or physics), one year, five hours a week, of which time an important part must be occupied with laboratory work.

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

Twenty-five credits (one credit is given for a recitation course that meets five hours a week, or for a laboratory course that meets 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, and the College of Agriculture.

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

FACULTY OF INSTRUCTION

LEON STEPHEN MERRILL, M. D.  
Dean and Director of Extension Work

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

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

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

MINTIN ASBURY CHRYSLER, Ph. D.  
Professor of Biology

JOHN MANVERNS BRISCOE, M. F.  
Professor of Forestry

GEORGE EDWIN SIMMONS, M. S.  
Professor of Agronomy

EDSON FORBES HITCHINGS, C. E., M. S.  
Associate Professor of Horticulture

WILLIAM LEROY SLATE, Jr., B. S.  
Associate Professor of Agronomy

LAURA COMSTOCK  
Assistant Professor of Domestic Science

WILLIAM FREEMAN SCHOPPE, B. S.  
Assistant Professor of Animal Industry

ALICE MIDDLETON BORING, Ph. D.  
Assistant Professor of Zoölogy

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

WINTHA RUDOLPH PALMER, B. S.  
Instructor in Horticulture

RALPH WOODBURY REDMAN  
Instructor in Animal Industry

CORNELIA PALMER  
Instructor in Domestic Science

ARTHUR EDWARD STANFORD, B. S.  
Itinerant Instructor in Farm Management
GENERAL INFORMATION

The College of Agriculture comprises the departments of Agricultural Extension, Agronomy, Animal Industry, Biological and Agricultural Chemistry, Biology, Domestic Science, Farm Management and Agricultural Engineering, Forestry, Horticulture, Veterinary Science, and Bacteriology. The aim of the College is to train young men for service as farmers, teachers of agriculture and the allied sciences in the schools and colleges, investigators in the agricultural experiment stations, and foresters; and to prepare young women to become teachers of domestic science and domestic art and to comprehend the problems of administration in the home and in public institutions. On entering either in four years' or two years' school course in agriculture a student is required to fill out a practical experience blank. Those who have not had experience in general farming are required to work during at least one summer vacation on some farm approved by the College.

The courses of instruction are organized as follows:

1. **THE REGULAR COURSES**:
   - The four years' general curriculum in Agronomy, Animal Husbandry, Dairy Husbandry, Poultry Husbandry, Horticulture, Biology, Forestry, and Domestic Science.
   - The four years' curriculum for teachers in general Agriculture.
   - The two years' Teachers' Course in Domestic Science.
   - The one year Teachers' Course in Agriculture.
   - The two years' School Course in Agriculture.
   - Farmers' week.

2. **THE EXTENSION COURSES**:
   - The correspondence courses.
   - The lecture courses.
   - The traveling schools.
   - The demonstration work.
   - The co-operative experiments.

THE COLLEGE CURRICULA

The college curricula are designed for those who wish to follow general farming, animal husbandry, dairy husbandry, poultry husbandry, horticulture, domestic science, chemistry as related to experiment sta-
College of Agriculture

tion work, veterinary science and bacteriology, biology, farm management, and forestry either as a business or as a profession.

Certain studies are fundamental to all work in agricultural lines. As many as possible of these studies are offered in the first two years, during which time the student is necessarily given no choice of subjects. At the beginning of the junior year each student must decide whether he is to specialize in Agronomy, Animal Husbandry, Dairy Husbandry, Poultry Husbandry, Horticulture, or Biology. To specialize in any one of these lines, he must during his junior and senior years take the studies given in the schedules which follow.

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.

One of the following curricula, embracing 30 credits each, is required for the students taking the four years’ courses in agriculture. It is recommended that the subjects be taken in the order here given. The elective subjects are selected with the advice of the major instructor.

Curriculum for the First Two Years for All Students Taking Four Years’ Courses in Agriculture

<table>
<thead>
<tr>
<th>Course</th>
<th>Freshman Year</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>Agronomy 5, †4</td>
<td>2</td>
<td>Animal Industry 1</td>
</tr>
<tr>
<td>Biology 1</td>
<td>5</td>
<td>Animal Industry 2, †2</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>2</td>
<td>Biology 1</td>
</tr>
<tr>
<td>Chemistry 3, †4</td>
<td>2</td>
<td>Chemistry 2</td>
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<tr>
<td>Drawing 1, *6</td>
<td>2</td>
<td>Chemistry 4, †4</td>
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<tr>
<td>English 3</td>
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<td>English 4</td>
</tr>
<tr>
<td>Military 1, *3</td>
<td>1</td>
<td>Forestry 1</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
<td>Military 2, *3</td>
</tr>
<tr>
<td>Physical Training *2</td>
<td>1-2</td>
<td>Modern Language</td>
</tr>
<tr>
<td>Physical Training *2</td>
<td>1-2</td>
<td>Physical Training *2</td>
</tr>
<tr>
<td>19 1-2</td>
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The College Curricula

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Agronomy 1</td>
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</tr>
<tr>
<td>Agronomy 2, * 3</td>
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</tr>
<tr>
<td>Animal Industry 3</td>
<td>2</td>
</tr>
<tr>
<td>Animal Industry 4, † 2</td>
<td>2</td>
</tr>
<tr>
<td>English 1a</td>
<td>1</td>
</tr>
<tr>
<td>Horticulture 2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 4, 2</td>
<td>5</td>
</tr>
<tr>
<td>Military 1, * 3</td>
<td>1</td>
</tr>
<tr>
<td>Poultry Husbandry I</td>
<td>1</td>
</tr>
<tr>
<td>Poultry Husbandry 1a † 2</td>
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<tr>
<td>Principles of Breeding (El 18)</td>
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<tr>
<td><strong>Agronomy 4</strong></td>
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<tr>
<td><strong>Chemistry 7</strong></td>
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</tr>
<tr>
<td><strong>English 1b</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Horticulture 1</strong></td>
<td>4</td>
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<tr>
<td><strong>Mathematics 2, 1</strong></td>
<td>5</td>
</tr>
<tr>
<td><strong>Military 2, * 3</strong></td>
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<tr>
<td><strong>Poultry Husbandry 6</strong></td>
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</tr>
<tr>
<td><strong>Poultry Husbandry 6a † 2</strong></td>
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**Curriculum for Students Specializing in Agronomy**

### JUNIOR YEAR

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
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</tr>
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<tbody>
<tr>
<td>Agronomy 3, † 4</td>
<td>2</td>
</tr>
<tr>
<td>Agronomy 6, † 4</td>
<td>2</td>
</tr>
<tr>
<td>Biological Chemistry 1</td>
<td>5</td>
</tr>
<tr>
<td>Biology 10</td>
<td>4</td>
</tr>
<tr>
<td>English 17</td>
<td>2</td>
</tr>
<tr>
<td>Farm Management 2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Bacteriology 1, † 6</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Biological Chemistry 2 † 6</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Biology 11</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>English 14</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Farm Management 1</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Veterinary Science 6</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Veterinary Science 8</strong></td>
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### Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Agri. Chemistry 3</td>
<td>2</td>
</tr>
<tr>
<td>Agronomy 7, † 2</td>
<td>1</td>
</tr>
<tr>
<td>Bacteriology 1</td>
<td>3</td>
</tr>
<tr>
<td>Biological Chemistry 2 † 6</td>
<td>3</td>
</tr>
<tr>
<td>Biology 11</td>
<td>4</td>
</tr>
<tr>
<td>English 14</td>
<td>2</td>
</tr>
<tr>
<td><strong>Veterinary Science 6</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Veterinary Science 8</strong></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Animal Industry 6, † 2</td>
<td>1</td>
</tr>
<tr>
<td>Animal Industry 7</td>
<td>2</td>
</tr>
<tr>
<td>Bacteriology 3, † 6</td>
<td>3</td>
</tr>
<tr>
<td>Farm Management 4</td>
<td>2</td>
</tr>
<tr>
<td>Horticulture 3</td>
<td>2</td>
</tr>
<tr>
<td>Thesis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective</strong></td>
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</tr>
<tr>
<td><strong>Agronomy 9, † 2</strong></td>
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</tr>
<tr>
<td><strong>Animal Industry 5</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Animal Industry 8, * 3</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Biology 8</strong></td>
<td>4</td>
</tr>
<tr>
<td><strong>Farm Management 1</strong></td>
<td>3</td>
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</tr>
<tr>
<td><strong>Farm Management 5</strong></td>
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</tbody>
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| Thesis                                       | 3     |
| **Thesis**                                   | 3     |

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67
College of Agriculture

Curriculum for Students Specializing in Animal Industry

Animal and Dairy Husbandry

JUNIOR YEAR

Fall Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Animal Industry 6, † 2</td>
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<tr>
<td>Animal Industry 7</td>
<td>2</td>
</tr>
<tr>
<td>* Bacteriology 2</td>
<td>1</td>
</tr>
<tr>
<td>Biological Chemistry 1</td>
<td>5</td>
</tr>
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<td>Biology 3</td>
<td>4</td>
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<tr>
<td>Farm Management 2</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Agr. Chemistry 3</td>
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</tr>
<tr>
<td>Animal Industry 5</td>
<td>2</td>
</tr>
<tr>
<td>Animal Industry 8, * 3</td>
<td>1</td>
</tr>
<tr>
<td>Bacteriology 1, † 6</td>
<td>3</td>
</tr>
<tr>
<td>Biological Chemistry 2, † 6</td>
<td>3</td>
</tr>
<tr>
<td>Biology 6</td>
<td>4</td>
</tr>
<tr>
<td>Biology 6</td>
<td>4</td>
</tr>
<tr>
<td>Veterinary Science 6</td>
<td>3</td>
</tr>
<tr>
<td>Veterinary Science 8</td>
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17 or 18

YEAR

Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Agr. Chemistry 3</td>
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</tr>
<tr>
<td>Animal Industry 5</td>
<td>2</td>
</tr>
<tr>
<td>Animal Industry 8, * 3</td>
<td>1</td>
</tr>
<tr>
<td>Bacteriology 1, † 6</td>
<td>3</td>
</tr>
<tr>
<td>Biological Chemistry 2, † 6</td>
<td>3</td>
</tr>
<tr>
<td>Biology 6</td>
<td>4</td>
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<td>Biology 6</td>
<td>4</td>
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<tr>
<td>Veterinary Science 6</td>
<td>3</td>
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<tr>
<td>Veterinary Science 8</td>
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19

SENIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Animal Industry 9</td>
<td>2</td>
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<tr>
<td>Veterinary Science 9</td>
<td>2</td>
</tr>
<tr>
<td>or * Animal Industry 13</td>
<td>2</td>
</tr>
<tr>
<td>* Animal Industry 14, † 4</td>
<td>4</td>
</tr>
<tr>
<td>Animal Industry 10</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology 3, † 6</td>
<td>3</td>
</tr>
<tr>
<td>English 17</td>
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</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Animal Industry 12, † 2</td>
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<tr>
<td>Animal Industry 11</td>
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<td>* Bacteriology 4</td>
<td>2</td>
</tr>
<tr>
<td>Biology 8</td>
<td>4</td>
</tr>
<tr>
<td>English 14</td>
<td>2</td>
</tr>
<tr>
<td>Farm Management 5</td>
<td>3</td>
</tr>
<tr>
<td>Thesis</td>
<td>3</td>
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</tbody>
</table>

14 or 15

18

* Note—Students desiring to follow Animal Husbandry should elect Animal Industry 9, 11, 12, and Veterinary Science 9; those following Dairy Husbandry should elect Bacteriology 2 and 4, and Animal Industry 13 and 14.
The College Curricula

Poultry Husbandry

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Industry 6, †2</td>
<td>1</td>
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<tr>
<td>Animal Industry 7</td>
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<tr>
<td>Bacteriology 2</td>
<td>1</td>
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<td>Farm Management 4</td>
<td>2</td>
</tr>
<tr>
<td>Poultry Husbandry 2</td>
<td>1</td>
</tr>
<tr>
<td>Poultry Husbandry 2a, †2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Agricultural Chemistry 3</td>
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<tr>
<td>Animal Industry 8, *3</td>
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</tr>
<tr>
<td>Bacteriology 1, †6</td>
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</tr>
<tr>
<td>Biological Chemistry 2, †6</td>
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<td>Biology 6</td>
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<td>English 14</td>
<td>2</td>
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<tr>
<td>Poultry Husbandry 4</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>English 17</td>
<td>2</td>
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<td>Farm Management 2</td>
<td>3</td>
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<tr>
<td>Poultry Husbandry 10</td>
<td>2</td>
</tr>
<tr>
<td>Poultry Husbandry 10a, †2</td>
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<tr>
<td>or</td>
<td></td>
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<tr>
<td>Thesis</td>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Biology 8</td>
<td>4</td>
</tr>
<tr>
<td>Farm Management 5</td>
<td>3</td>
</tr>
<tr>
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<td>Poultry Husbandry 9</td>
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Curriculum for Students Specializing in Horticulture

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
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<tr>
<td>Biology 10</td>
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<td>English 17</td>
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</tr>
<tr>
<td>Farm Management 4</td>
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</tr>
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<td>Horticulture 3</td>
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<tr>
<td>Electives</td>
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<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Animal Industry 5</td>
<td>2</td>
</tr>
<tr>
<td>Bacteriology 1, †6</td>
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</tr>
<tr>
<td>Biological Chemistry 2, †6</td>
<td>3</td>
</tr>
<tr>
<td>Biology 11</td>
<td>4</td>
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<td>English 14</td>
<td>2</td>
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<td>Horticulture 4a</td>
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**SPRING SEMESTER**

<table>
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<th>Subject</th>
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<table>
<thead>
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<th>Subject</th>
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<tbody>
<tr>
<td>Horticulture 4a</td>
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<table>
<thead>
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College of Agriculture

**SENIOR YEAR**

<table>
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<td>Animal Industry 7</td>
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<tr>
<td>Farm Management 2</td>
<td>3</td>
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<td>Horticulture 4b</td>
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**JUNIOR YEAR**

**Fall Semester**

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<td>English 2a</td>
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<td>Modern Language</td>
<td>3</td>
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<tr>
<td>Plant Histology 10</td>
<td>4</td>
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<tr>
<td>Verteb. Zoölogy 2</td>
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**Spring Semester**

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</tr>
<tr>
<td>* Plant Pathology 16 or</td>
<td>3</td>
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<tr>
<td>Elective</td>
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<td>Plant Physiology 11</td>
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**SENIOR YEAR**

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<td>Geology 5</td>
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<td><strong>Total</strong></td>
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* Given in alternate years.
The College Curricula

Curriculum 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 men capable of teaching all branches of elementary agriculture in high schools or academies. In order to receive a degree, 150 hours, or 30 credits, must be completed.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SPRING SEMESTER</th>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td><strong>Subject</strong></td>
<td><strong>Hours</strong></td>
</tr>
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<td>Chemistry 1</td>
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<tr>
<td>Chemistry 3, †4</td>
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<td>Drawing 10, *6</td>
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<td>English 3</td>
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<tr>
<td>Military 1, *3</td>
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<td>Physical Training *2</td>
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<tr>
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<tr>
<td>Horticulture 2</td>
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<tr>
<td>Mathematics 4, 2</td>
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<tr>
<td>Mech. Engineering 1b, †4</td>
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<tr>
<td>Military 1, *3</td>
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<tr>
<td>Poultry Husbandry 1</td>
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<tr>
<td>Poultry Husbandry 1a, †2</td>
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<td><strong>20 1-2</strong></td>
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<table>
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<td>Mathematics 1, 2</td>
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<tr>
<td>Mech. Engineering 2, *4</td>
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<td>Military 2, *3</td>
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<td>Poultry Husbandry 6a, †2</td>
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College of Agriculture

JUNIOR YEAR

<table>
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<th>Subject</th>
<th>Hours</th>
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<td>Biology 15</td>
<td>3</td>
<td>Education 8</td>
<td>2</td>
</tr>
<tr>
<td>Education 5</td>
<td>3</td>
<td>English 14</td>
<td>2</td>
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<tr>
<td>English 17</td>
<td>2</td>
<td>Horticulture 4a</td>
<td>2</td>
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<td>Geology 5</td>
<td>3</td>
<td>Modern Language</td>
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<td>Horticulture 3</td>
<td>2</td>
<td>Veterinary Science 6</td>
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<td>Modern Language</td>
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19

SENIOR YEAR

<table>
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<th>Subject</th>
<th>Hours</th>
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<td>Animal Industry 5</td>
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<tr>
<td>Biological Chemistry 1</td>
<td>5</td>
<td>Animal Industry 8, *3</td>
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</tr>
<tr>
<td>Horticulture 4b</td>
<td>2</td>
<td>Agricultural Chemistry 3</td>
<td>2</td>
</tr>
<tr>
<td>Physics 4</td>
<td>5</td>
<td>Bacteriology 1, †6</td>
<td>3</td>
</tr>
<tr>
<td>Veterinary Science 7</td>
<td>2</td>
<td>Biology 8</td>
<td>4</td>
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<tr>
<td>Veterinary Science 8</td>
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<tr>
<td></td>
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17

15

The Forestry Curriculum

A complete undergraduate curriculum is arranged which will serve as the basis not only of practical work in forestry, but also of a liberal education. During the first two years much attention is given to biology and civil engineering, both of which are important fundamentals upon which are built the more technical forestry courses. A knowledge of the principles of forestry in its different branches is given to the student, and considerable practical work is done in the forest. The woodlands belonging to the university together with adjacent lands covered by young forest, furnish a field for the study of many forest problems. Field trips are made and demonstration thinnings and plantations made at various places throughout the state.

The instruction in this department consists of lectures, recitations, laboratory, and field work; the latter consuming a considerable portion of the scheduled time during the junior and senior years.
The College Curricula

Students who complete the curriculum 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 curriculum are, however, prepared to go directly into practical work, and up to the present time there has been no difficulty in placing graduates in permanent positions.

There are good openings for students 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.

Besides the prescribed work in other departments, courses 4 to 14 inclusive are required of all students majoring in forestry, and courses 3 and 15 are recommended as electives for these students. Course 1 is open to all students, but is not required of students majoring in forestry.

At graduation the student receives the degree of Bachelor of Science in Forestry. A special bulletin, giving detailed descriptions of all the courses as well as of the equipment, is issued by the department and will be sent free to any address upon request.

Requirements for Graduation

**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>
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<tr>
<td>Biology 1</td>
<td>5</td>
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<tr>
<td>Chemistry 1</td>
<td>2</td>
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<td>Chemistry 3</td>
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<tr>
<td>Drawing 1, 6</td>
<td>2</td>
</tr>
<tr>
<td>English 1a</td>
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<td>English 3</td>
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<tr>
<td>Mathematics 4, 2</td>
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<tr>
<td>Military 3</td>
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<tr>
<td>Physical Training</td>
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</table>

21 1-2

22
The Four Years' Curriculum in Domestic Science and Elementary Domestic Art

This curriculum, 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
The College Curricula

a thorough course in biology, chemistry, 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 curriculum 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 $4 a semester.
Cookery courses 9-12 each $7 a semester.
Cookery course 8, $10 a semester.
Handwork courses $2 a semester.
Household economics $1 a semester.
Laundry-work $1 a semester.
Practical Housework $3.50 a semester.
Household administration, course 33, $1 a semester.

<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>Subject</td>
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<tr>
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<tr>
<td>Chemistry 1</td>
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<tr>
<td>Chemistry 3, †4</td>
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<tr>
<td>Cookery 1</td>
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<tr>
<td>English 1a</td>
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<tr>
<td>Sewing 13, †3</td>
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## College of Agriculture

### Sophomore Year

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<td>1 1-2</td>
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<td>2</td>
</tr>
<tr>
<td>Handwork 19, †3</td>
<td>1 1-2</td>
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<tr>
<td>Horticulture 8</td>
<td>2</td>
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<td>Mathematics 4, 2</td>
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<td>Modern Language</td>
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<tr>
<td></td>
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### Junior Year

| Art 27, †3    | 1 1-2 | Art 28        | 1 1-2 |
| Bacteriology 2 | 1     | Biology 19    | 2     |
| Biol. Chemistry 1 | 5   | Biol. Chemistry 2, †6 | 3 |
| Cookery 5     | 2     | Cookery 6     | 2     |
| Philosophy 1a | 3     | Philosophy 1b | 3     |
| Physics 4     | 5     | Philosophy 4  | 2     |
| Sewing 15, †3 | 1 1-2 | Physics 5, †5 | 2     |
|               |       | Sewing 16, †3 | 1 1-2 |
|               | 19    |               | 17    |

### Senior Year

| Cookery 7     | 2     | Cookery 8, †3 | 1 1-2 |
| Economics 1a  | 2     | Education 2   | 3     |
| Education 1   | 3     | Education 8   | 2     |
| Education 5   | 3     | Handwork 22, †6 | 3 |
| Handwork 21, †6 | 3   | H. Administration 31 | 1     |
| H. Administration 20 | 1 1-2 | Mech. Engineering 20 | 1 |
| H. Administration 32 | 2     | Practice Teaching 35 | 1     |
| Methods 34    | 1     | Thesis 36     | 3     |
| Practice Teaching 35 | 1   | Elective      | 3     |
| Elective      | 2     |               |       |
|               |       |               | 18 1-2 |
|               | 20 1-2 |               |       |

76
The College Curricula

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 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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<td>Art 26, † 3</td>
<td>I 1-2</td>
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<td>I 1</td>
<td>Biology 1</td>
<td>5</td>
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<td>Biology 1</td>
<td>5</td>
<td>Chemistry 2</td>
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<td>Chemistry 1</td>
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<td>Chemistry 4, † 4</td>
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<td>Chemistry 3, † 4</td>
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<td>Cookery 9</td>
<td>3</td>
<td>Handwork 23, † 3</td>
<td>I 1-2</td>
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<td>Philosophy 1a</td>
<td>3</td>
<td>H. Administration 30</td>
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<td>Sewing 17, † 4</td>
<td>2</td>
<td>Philosophy 1b</td>
<td>3</td>
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<td>Art 28</td>
<td>I 1-2</td>
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<td>Biol. Chemistry 2, † 6</td>
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<td>3</td>
<td>Cookery 8, † 3</td>
<td>I 1-2</td>
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<td>H. Administration 20</td>
<td>I 1-2</td>
<td>Education 2</td>
<td>3</td>
</tr>
<tr>
<td>Methods 34</td>
<td>1</td>
<td>Handwork 24, † 3</td>
<td>I 1-2</td>
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<tr>
<td>Practice Teaching 35</td>
<td>1</td>
<td>H. Administration 31</td>
<td>1</td>
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<td>Sewing 18, † 4</td>
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<td>Practice Teaching 35</td>
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<tr>
<td></td>
<td>20 I-2</td>
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</table>

77
College of Agriculture

The Special Courses in Agriculture 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 subsequently desire to become candidates for a degree, they will be required to pass all the entrance examinations. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, and not for those who are incompetent to pursue a regular course.

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

The Two Years' School Course in Agriculture

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

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

There are no entrance examinations required of those who desire to enter the school course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration. No tuition is charged in this course, but the same registration and incidental fees of fifteen dollars a semester, or thirty dollars a year, are charged school course students in agriculture as are charged all others attending the University. Fees amounting to two dollars and fifty cents are charged in each of the carpentry and blacksmithing courses to cover cost of material used.
The practical side of the work in this course is strongly emphasized, and since students are expected to be able to do work and handle men when they have finished, those taking this course are required to spend the summer vacation between the first and second years in work either at the college, or on some farm approved by the faculty.

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

The following is a schedule of the work given:

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
<td><strong>Second Year</strong></td>
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<tr>
<td>Animal Industry (3)</td>
<td>Animal Industry (3)</td>
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<tr>
<td>Business Arithmetic and Farm Accounts (2)</td>
<td>English (2)</td>
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<tr>
<td>Carpentry (*3)</td>
<td>Farm Crops (3)</td>
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<tr>
<td>English (3)</td>
<td>Farm Crops Laboratory (*3)</td>
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<tr>
<td>Fruit Handling (3)</td>
<td>Forge Work (*3)</td>
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<tr>
<td>Fruit Picking, Packing, and Laboratory Work (*3)</td>
<td>Fruit Growing (3)</td>
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<tr>
<td>Poultry Husbandry (2)</td>
<td>Orchard Practice and Laboratory Work (*3)</td>
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<tr>
<td>Poultry Husbandry Laboratory (†2)</td>
<td>Poultry (2)</td>
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<tr>
<td>Practical Dairying and Stock Management (†2)</td>
<td>Poultry Husbandry Laboratory (†2)</td>
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<tr>
<td>Soils and Fertilizers (3)</td>
<td>Practical Dairying and Stock Management (*3)</td>
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<tr>
<td>Soils Laboratory (*3)</td>
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<tr>
<th><strong>First Year</strong></th>
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<td>English (2)</td>
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<tr>
<td>Farm Chemistry (3)</td>
<td>Farm Management (3)</td>
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<td>Farm Crops (3)</td>
<td>Farm Management Laboratory (*3)</td>
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<tr>
<td>Farm Engineering and Mechanics (*3)</td>
<td>Forestry (2)</td>
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<tr>
<td>Fruit Growing (3)</td>
<td>Garden Practice and Laboratory Work (*3)</td>
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<tr>
<td>Orchard Practice and Laboratory Work (*3)</td>
<td>Insects (2)</td>
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<tr>
<td>Poultry (2)</td>
<td>Poultry Management (2)</td>
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<td>Practical Dairying and Stock Management (†2)</td>
<td>Practical Dairying and Stock Management (†2)</td>
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<tr>
<td>Veterinary Science (3)</td>
<td>Vegetable Gardening (3)</td>
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<td>Veterinary Science (3)</td>
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College of Agriculture

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 have such a course.

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.

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. A certificate is given to those completing it.

The course of study is as follows:

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Agricultural Botany</td>
<td>2</td>
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<tr>
<td>Agricultural Chemistry</td>
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<tr>
<td>Agricultural Chemistry Laboratory</td>
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<tr>
<td>Agricultural Economics</td>
<td>2</td>
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<tr>
<td>Anatomy and Physiology of Domestic Animals</td>
<td>2</td>
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<tr>
<td>Animal Breeding</td>
<td>3</td>
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<tr>
<td>Fertilizers</td>
<td>3</td>
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<tr>
<td>Fruit Growing and Pomology</td>
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<tr>
<td>Horticulual Laboratory</td>
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<td>Manual Training</td>
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<tr>
<td>Plant Propagation</td>
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<td>Poultry</td>
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<tr>
<td>Poultry Laboratory</td>
<td>3</td>
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<tr>
<td>Soil Laboratory</td>
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<tr>
<td>Stock Judging</td>
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<tr>
<td>Soils</td>
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**SPRING SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Agricultural Engineering and Farm Management</td>
<td>3</td>
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<tr>
<td>Agricultural Engineering</td>
<td>3</td>
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<tr>
<td>Animal Feeding</td>
<td>3</td>
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<tr>
<td>Bacteriology Laboratory</td>
<td>3</td>
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<tr>
<td>Buttermaking</td>
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<tr>
<td>Dairying</td>
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<tr>
<td>Economic Entomology</td>
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<td>Education</td>
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<td>Field Crops</td>
<td>3</td>
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<tr>
<td>Field Crops Laboratory</td>
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<td>Forestry</td>
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<tr>
<td>Landscape Gardening</td>
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<tr>
<td>Landscape Gardening Laboratory</td>
<td>3</td>
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<tr>
<td>Live Stock Management</td>
<td>3</td>
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<tr>
<td>Manual Training</td>
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<td>Poultry</td>
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<tr>
<td>Poultry Laboratory</td>
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<td>School Gardening</td>
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<td>Vegetable Gardening</td>
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<tr>
<td>Vegetable Gardening Laboratory</td>
<td>3</td>
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<tr>
<td>Veterinary Science</td>
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</tbody>
</table>
The College Curricula

The Short Courses in General Farming, Dairying, Horticulture, and Poultry Management

The short course in general farming deals especially with farm crops. Special attention is given to the potato, corn, oat, and hay crops,—the preparation of the seed bed, selection of seed, seeding, fertilization, culture, and harvesting. Such general subjects as drainage, maintenance of soil fertility, rotation of crops, control of weeds, etc., are considered. Potato, corn, and small grain judging is made a prominent feature.

The short course in 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, 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 is 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 instruction 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.
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.

The Department of Agricultural Extension

This department of the College of Agriculture offers correspondence courses, lecture courses, demonstration work, coöperative experiments, and movable schools in agriculture.

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, animal and dairy husbandry, poultry husbandry, domestic science, forestry, and horticulture, 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
The College Curricula

Course 6—Forestry
Course 7—Home Economics
Course 8—Elementary Agriculture
Course 9—Domestic Science
Course 10—Vegetable Gardening
Course 11—The Business of Dairying

Lecture Courses

Lectures in these courses are given under the auspices of granges, clubs, societies, and other gatherings by the members of the agricultural faculty.

A complete list of the lectures will be forwarded on request.

Demonstration Work

For this work members of the agricultural faculty will make demonstrations, showing, as well as telling, how to solve many practical farm problems. These demonstrations are made on the farms 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; corn and small grain judging and breeding; potato judging, breeding, and 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 domestic animals. All demonstrations are accompanied by lectures.

Co-operative Experiments

Experiments will be undertaken in coöperation with farmers along such lines as the following: the determination of fertilizing problems; the eradication of noxious weeds; the determination of the best means for increasing the hay crop. To encourage systematic seed improvement the college will each year distribute a large amount of improved seed of various kinds among the farmers of the state who will undertake to carry on careful experiments and to make reports of the results obtained at the close of each season.

Experiments with corn, oats, alfalfa, fertilizers, and pastures have been carried on in nearly every county in the state.

During Farmers' Week exhibits are made showing the results of this experimental work. School gardening is encouraged by the distribution of seeds.
College of Agriculture

Movable Schools in Agriculture

To extend the advantages of agricultural instruction to persons actively engaged in agriculture, the Extension Department will conduct a limited number of Three or Six Day Schools in various parts of the state. Members of the agricultural faculty will teach in these schools.

Correspondence

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

A free monthly publication, “Timely Helps for Farmers,” treating on subjects of interest to farmers, is published by the Extension Department and may be secured upon application.

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

Notes—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 Simmons; Associate Professor Slate

1. Soils.—Lectures and recitations dealing with the following subjects: Fundamental principles underlying the science of agriculture; topographic divisions of America; origin of soil; types of soil; distribution of typical soils; structure of various types of soil; soil moisture; soil heat; soil aeration; principles of soil drainage. Careful consideration will be given to the function of humus in the soil, especially its relation to the mechanical condition of the soil and to its waterholding capacity. Attention will be given also to the study of methods of reclaiming worn-out soils. Two hours a week. Fall semester.

2. Soil Physics.—Laboratory practice in the establishment of principles taken up in the preceding course. Special attention will be given to the subject of cultivation of the soil. Other subjects which will be investigated experimentally are: Determination of specific gravity of soil; soil crumb; pore space of soil; capillary power of various types of soil; color of soil and relation to soil heat; evaporation of water in relation to soil heat. A mechanical analysis of various types of soil will be made. *Three hours a week. Fall semester.
3. Laboratory Course in Crop Judging.—This course will be comprised of the following: Study of the score-cards of the cereals, potatoes, roots, hay, and forage crops; practice in the scoring of samples submitted for judgment; practice in comparative judging of large samples of these crops without the use of a score-card. This course is designed to fit the student to become an expert judge in crops. It will give further practice in application of the principles taken up in Course 5. *Four hours a week.* Fall semester.

4. Soil Fertility.—Lectures dealing with the question of elements of plant food in the soil, and with the problem of building up the fertility of partially depleted soils. Special attention will be given to crop rotation as a means of maintaining and increasing the fertility of soil. Other subjects of study are: Composition, care and use of barnyard manures, nature, and special value of various commercial fertilizers; scientific compounding, and home mixing of fertilizers; adaptation of fertilizers to various crops; principles of drainage as it affects fertility of the soil; organic compounds of the soil; oxidation of soil components. *Two hours a week.* Spring semester.

5. Crop Identification and Growing.—Lectures and laboratory exercises dealing with potatoes, grains, corn, roots, and forage crops grown upon the farm, their adaptation to various soils and climates. The following subjects will be considered as they apply to each crop: Preparation of the seed bed; fertilization of soil; methods of planting; seed selection; treatment of seed to prevent disease; crop culture and harvesting of crops. Special attention will be given to the study of clovers and grasses dealing with their habits of growth, individual characteristics, methods of seeding, adaptabilities, and haymaking. In connection with this course the student will be required to mount a collection of plants of the various cereals and forage crops and will be expected to be able to identify the seeds of the various crops, the plants and the prominent varieties of each crop. The student is required to mount and identify also, thirty of the worst weeds found in Maine, along with their seeds. *Four hours a week.* Fall semester.

6. Farm Crop Breeding.—Lectures and laboratory practice in the application of the principles of breeding as applied to the improvement of crops grown upon the farm. Methods of breeding of potatoes, oats, wheat, barley, and corn will be carefully outlined and illustrated. Special attention will be given to the study of variation and correlation.
Animal Industry

of characters in the crops outlined above. Hybridization of cereals and their selection according to Mendelian principles will receive special attention. Mendel’s Law as it is exemplified in corn and grain breeding will be studied. Agronomy 5 is a prerequisite. *Four hours a week. Fall semester.

7. Advanced Plant Breeding.—A continuation of Course 6 with original research in the application of investigation of principles taken up in Course 6. †Two hours a week. Spring semester.

9. Crop Marketing.—Fiber Crops. Lectures and laboratories dealing with commercial grading of grain and other farm produce, marketing crops, interpretation of crop and market reports, the great crops in their transit from producer to consumer. The production of flax, hemp and jute; identifications of weeds by plants and seeds; and the best means for their eradication. Agronomy 5 is a prerequisite. †Two hours a week. Spring semester.

10. School Gardening.—This course is especially designed for those taking the four years’ teachers’ course in agriculture. It will deal with the use of the school garden as a supplement to the teaching of agriculture in secondary schools; an outline of the material that should be found therein and the use of this material for laboratory purposes; the laying out of the school garden, and its general management. *Three hours a week. Spring semester.

11. Thesis.—Those specializing in Agronomy will be required to prepare a thesis on some line of this work, the subject of the thesis to be chosen by the student under the direction of the head of the department. The subject for this study should be chosen and definite assignment made before the close of the junior year. Six hours minimum credit. *Three hours fall semester and *Three hours spring semester of the senior year.

ANIMAL INDUSTRY

Professor Campbell; Assistant Professor Schoppe; Mr. Redman

Animal and Dairy Husbandry

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. Spring 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.

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. Fall 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,
Poultry Husbandry

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 provided for those who desire to follow some line of dairying. It will deal with such problems as handling of milk for city trade, milk inspection, certified milk plants, manufacture and sale of ice-cream, and those problems pertaining to the creamery. Animal Industry 6, 7, and 8 are prerequisites for this course. *Three 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 Stock Judging and Management.**—This course is intended for those who desire more judging than is given in Animal Industry 2 and Animal Industry 4; also actual experience in preparation of stock for the show ring and market. †*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.

15. **Thesis.**—Students specializing in animal industry are required to prepare a thesis on some subject pertaining to the department. *Three hours* fall semester and *three hours* spring semester.

**Poultry Husbandry**

Courses 1, 1a, 6, and 6a, are required of all agricultural students. Courses 2, 2a, 4, 8, 9, 9a, and 10a are required of all students specializing in poultry husbandry. Course 5 is required only of students who intend to become teachers of, or Experiment Station workers in, poultry husbandry.

89
College of Agriculture

1. **Poultry Breeds and Management.**—A general consideration of the present status of poultry keeping in America. A study of the types and breeds of market poultry, including ducks, geese, and turkeys. *One hour a week.* Fall semester.

1a. **Laboratory Practice.**—The judging of the breeds of poultry, mainly from the utility standpoint; the selection of breeding stock. To be taken with Course 1. *† Two hours a week.* Fall semester.

2. **Commercial Poultry Keeping.**—Considered as a business, as an investment, as an employment. A consideration of the large successful poultry farms and how they are operated. *One hour a week.* Fall semester.

2a. **Laboratory Practice.**—The planning and laying out of poultry plants, houses, and fixtures suitable for specialization on a large scale. To be taken with Course 2. *† Two hours a week.* Fall semester.

4. **Markets and Marketing.**—A consideration of the requirements of the best markets for poultry produce in America, possible improvements, the commission business, cold storage, cooperation. *Two hours a week.* Spring semester.

5. **Poultry Literature.**—An advanced course in the study of bulletins and reports of the Experiment Stations in this and other countries, with especial attention to the work of the Maine Experiment Station, poultry papers, and text books. *Two hours a week.* Fall semester.


6a. **Laboratory Practice.**—The drawing of plans of houses and appliances suitable for work on the farm; practice in the mixing of feeds; the examination of incubators and brooders; the killing and dressing of poultry; and the handling of eggs for market. To be taken with Course 6. *† Two hours a week.* Spring semester.

8. **Thesis.**—Original work on some subject chosen by the student under the direction of the head of the department.
Bacteriology and Veterinary Science

9. Incubation.—Natural and artificial; history of artificial, Chinese, and Egyptian methods; modern methods; the principles; the application. *Two hours a week*. Spring semester.

9a. Laboratory Practice.—The selection of eggs to set; the operation of incubators; the setting of hens and other work intimately connected with the operation of incubators and brooders. † *Two hours a week*. Spring semester.

10. Breeds and Breeding.—A study of the types and breeds of market and fancy poultry; their history, development and breed characteristics; mating; the application of the principles of breeding to both fancy and utility poultry. *Two hours a week*. Fall semester.

10a. Laboratory Practice.—The judging and scoring of the various breeds and varieties of poultry; the selection, washing, and fitting of birds for exhibition. To be taken with Course 10. † *Two 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. It 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*. Fall 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.
College of Agriculture

4. **Bacteriology.**—This is a laboratory course for students who desire to pursue some particular line of bacteriological investigation. Open only 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.**—This course deals with the anatomy, physiology, and diseases of poultry. *Two hours a week.* Spring 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 6. *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.

**BIOLOGICAL AND AGRICULTURAL CHEMISTRY**

**Professor Merrill**

1. **Biological Chemistry.**—Lectures and recitations on the composition of the plant; the source, nature, and assimilation of plant food; the composition of the animal body and of food materials; the adaptation of food to the animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy; general metabolism; and the chemical 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 carbohydrates, fats, and protein bodies; the digestive enzymes; the blood, muscle, bones, and other tissues of the body; milk, bile, and other secretions. A continuation of the preceding course. † *Six hours a week.* Spring semester.

92
Biology

3. **Agricultural Chemistry.**—This course includes a study of the origin and composition of soils; the source and composition of fertilizing materials; the fixation of atmospheric nitrogen; 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 and inspection work. Open to students who have completed the courses, Chemistry 1, 2, 3, 4, 7, 8, 14, 15, and 16. *Ten hours a week.* Spring semester.

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

6. **Economic Geology.**—A course in applied geology, including a general survey of our mineral resources, with special reference to the mineral fuels; the distribution and manner of occurrence of the more useful metals; the economically important non-metallic minerals; and a study of the rocks and their uses as building stone, as road material, and as a source of lime and cement. *Two hours a week.* Fall semester.

**BIOLOGY**

The courses in this department are described under the College of Arts and Sciences.

**DOMESTIC SCIENCE**

Assistant Professor Comstock; Miss Palmer

**Cookery**

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. Lecture, *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; adulteration and preservation of food. Lecture, *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 being given to general cookery. Accounts are taken in 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. Lecture, *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. Lecture, *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 adult 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. Lecture, *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. Lecture, *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.
Domestic Science

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

10. Cookery.—Continuation of course 9. Lecture, 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. Lecture, one hour a week; laboratory, four hours a week. Fall semester.

12. Diet for Invalids.—Continuation of course 11 and diet for invalids. Lecture, one hour a week; laboratory, four hours a week. Spring semester.

Sewing

13. Hand Sewing.—This course includes the fundamental principles of hand sewing taught in connection with the making of towels, napkins, 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.


17. Hand Sewing.—This course presents the essentials of courses 13 and 14 in a condensed form. Four hours a week. Fall semester.

18. Machine Sewing.—This course presents the essentials of courses 15 and 16 in a condensed form. Four hours a week. Fall semester.

Handwork

19. Handwork.—This consists of knotting, knitting, crocheting, weaving, caning, and basketry. Three hours a week. Fall semester.
College of Agriculture


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


23. Handwork.—Offered to students taking the two years’ course. It includes all the principles involved in course 19. *Three hours a week.* Spring semester.

24. Handwork.—Continuation of course 23. *Three hours a week.* Spring semester.

Art

25. Drawing.—This course consists of a study of line, light and dark, and color. *Three hours a week.* Fall semester.

26. Design.—Emphasis this semester 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 fireplace 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 27. Lecture *one hour a week,* and laboratory *one hour a week.* Spring semester.

Household Administration

29. Household Economics.—Lectures, recitations, and practice. Principles of housework examined. Methods studied and practical applications made. Lecture *one hour a week;* laboratory *one hour a week.* Fall semester.
Domestic Science

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. Lecture one hour a week; laboratory two 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. Marketing, Serving, and Accounts.—Some general plan followed as outlined in cookery 1, 2, and 3. Required of two-year students. One hour a week. Fall semester.

34. 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 wholesale 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.

35. Practice Teaching.—Practice teaching is required of students in the senior year. This teaching is done under supervision. Two hours credit.

36. 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 three hours a week. Spring semester.
1. Farm Management.—A study of the various types of farming, with comparison of investment and returns for each. A study will be made of the conditions under which extensive, intensive, and mixed systems of farming prosper or fail; laying out of fields and rotation of crops; investigation of cost of different farming operations; management of men and teams; markets and marketing. Farm surveys with a detailed study of the conditions on different farms will be made. Farm plans will be outlined to suit various conditions. Two hours lecture and three hours laboratory a week. Spring semester.

2. Agricultural Engineering and Rural Architecture.—(a) Agricultural Engineering. Farm surveying and levelling. The plotting of farms and the measurement of land; a study of drainage; estimating the investment and returns from a system of drainage; the making of roads; road material.

   (b) Rural Architecture. The planning, designing, location, and construction of farm buildings, water systems, sewerage, concrete construction. Two hours lecture and three hours laboratory a week. Fall semester.

3. History and Economics of Agriculture.—(a) History of Agriculture. A history of agriculture from early times to the present day; the beginning of British agriculture, and the development of modern agriculture; the agriculture of the United States, its influence on social conditions; the importance of our leading products, and their effect on the world's commercial life; the agriculture of different sections; the evolution of farm machinery; and progress in agricultural education. Lectures supplemented by illustrative material and lantern slides.

   (b) Economics. The factors of agricultural production, and their economic properties; organization of the farm; rent of farm land; the law of diminishing returns from the land; system of distribution; cooperative organizations; a study of life in the rural communities; schools and other rural organizations. Two hours lecture and two hours laboratory a week. Fall semester.
Forestry

4. **Farm Accounting.**—(a) *Farm Mathematics.* Instruction in this subject consists in the application of its principles to all kinds of farm problems where measurements of material, extension, capacity, etc., are required.

(b) *Farm Records and Accounts.* A system of records of the various operations of the farm, such as records of field labor, milk production in the dairy, crop yields, etc.; a system of accounts sufficient to provide for the receipts and expenditures on the farm. *Two hours lecture a week.* Fall semester.

5. **Farm Mechanics and Farm Machinery.**—(a) *Farm Mechanics.* A study of the simpler laws of mechanics as applied to farm implements and farm machinery.

(b) *Farm Machinery.* A study of machinery used on the farm, farm power, etc. Demonstrations and tests are made with various machines and implements. *Two hours lecture and three hours laboratory a week.* Spring semester.

**FORESTRY**

**Professor Briscoe**

*The courses in Forest Botany and Forest Zoology are listed under Biology.*

**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 to the student in economics. Open to all students. *Two hours a week.* Spring semester.


College of Agriculture

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.
Horticulture


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.


15. Wood Technology.—The common commercial woods classified as to their physical properties and their economic uses. Methods of identification other than microscopic. Mechanical, chemical, and other properties of wood. Elective for seniors majoring in forestry and for other students who have taken Biology 1 and 10.

GEOL OGY

The courses in this subject are described with those in the department of Biological Chemistry.

HORTICULTURE

Associate Professor Hitchings; Mr. Palmer

1. Principles of Fruit Growing.—A study of orchard sites and soils, methods of setting, cultivating, fertilizing, pruning, and spraying. Two hours a week in class room and †four hours a week in the laboratory. Spring semester.
College of Agriculture

2. **Fruit Handling.**—A study of methods of picking, grading, packing, storing, and marketing fruit. The laboratory work of this course will acquaint the student with the more important varieties of fruit in this state. *Two hours a week* in class room and † *two hours a week* in the laboratory. Fall semester.

3. **Systematic Pomology.**—A systematic study of the types and varieties of the leading groups of fruits, their evolution and adaptation to environment. Also distribution of varieties in the state. Open to students who have taken courses 1 and 2. *One hour a week* in class room and † *two hours a week* in the laboratory. Fall semester.

4a. **Vegetable Gardening.**—A study of the principles of vegetable gardening accompanied by exercises in the care of cold frames, hot beds, and garden plantings. *One hour a week* in class room and † *two hours a week* in the laboratory. Spring semester.

4b. **Vegetable Gardening.**—A continuation of course 4a with a study of garden varieties and types for home and commercial use; also grading, marketing, and storing of vegetables. *One hour a week* in class room and † *two hours a week* in the laboratory. Fall semester.

5. **Small Fruit Culture.**—A study of the bush and vine fruits, including strawberries, taking up adapted varieties with culture, picking, grading, packing, and marketing,—home and commercial. *Two hours a week* in the class room and † *two hours a week* in the laboratory. Spring semester.

6. **Greenhouse Management and Construction.**—A study of the different greenhouse crops, supplemented by practice in the regular greenhouse operations and including a study of the principles of greenhouse construction in heating. *One hour a week* in class room and † *two hours a week* in the laboratory. Spring semester.

7. **Plant Breeding.**—A study of plant breeding as applied to variation, selection, and hybridization as adapted to garden and fruit crops. *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 is given to the improvement of the home grounds. *Two hours a week* in the class room and † *two hours a week* in the laboratory. Fall semester.

102
Horticulture

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 in the University. *Three hours a week.* Fall semester.

10. Thesis.—Students specializing in Horticulture are required to prepare a thesis on some subject pertaining to Horticulture. *Three hours a week.* Fall and spring semester.

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 36.

PHYSICAL TRAINING

The courses in this department are described on page 37.
COLLEGE OF ARTS AND SCIENCES

FACULTY OF INSTRUCTION

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

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

GEORGE DAVIS CHASE, Ph. D.
Professor of Latin

CAROLINE COLVIN, Ph. D.
Professor of History

*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

MINTIN ASBURY CHRYSLER, Ph. D.
Professor of Biology

*Absent on leave.

104
Faculty

ARTHUR JULIUS JONES, Ph. D.  Professor of Education
GEORGE WARE STEPHENS, Ph. D.
Professor of Economics and Sociology
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, Ph. D.  Assistant Professor of Physics
TRUMAN LEIGH HAMLIN, M. A.
Assistant Professor of Mathematics
ALICE MIDDLETON BORING, Ph. D.
Assistant Professor of Zoology
WALTER EVERETT PRINCE, M. A.
Instructor in English
LOWELL JACOB REED, B. S.
Instructor in Mathematics
HARRY NEWTON CONSER, M. S., M. A.
Instructor in Botany
ROBERT RUTHERFORD DRUMMOND, Ph. D.
Instructor in German
SHERMAN DANIEL CHAMBERS, B. S.
Instructor in Mathematics
WALTER EDMOND WILBUR, B. S.
Instructor in Mathematics
EUGENE LOUIS RAICHE,  Instructor in French (Summer Term)
HELENE JULIE RAICHE  Instructor in French (Summer Term)
ERNEST CLAUDE DREW, B. S.
Instructor in Physics
VICTOR ALVIN KETCHAM, A. B., LL. B.
Instructor in English
LLOYD MEEKS BURGHART, M. A.
Instructor in Chemistry
ARTHUR MOSES BUSWELL, B. A.
Instructor in Industrial Chemistry
EARLE OVANDO WHITTIER, B. S.
Instructor in Chemistry
CLAYTON ULREY, A. B.
Instructor in Physics
WALTER LETHBY LEIGHTON, Ph. D.
Instructor in English
HOWARD MADISON PARSHLEY, A. M.
Instructor in Zoology
WILLIAM KISLER HUFF, B. A.
Instructor in English
EMILE SAM SAMRA, B. és L.
Tutor in German

* Absent on leave.
College of Arts and Sciences

GENERAL INFORMATION

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

1. Men and women who desire to pursue a cultural college course.

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 the 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 47-60. 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 upon 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
Major Bachelors

the beginning of the sophomore year. A student may change his major subject with the consent of the deans of the colleges concerned; 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 subject is taken may prescribe. The remainder of the student's work may be selected from any department or departments of the University. This must be done with the advice of the head of the department in which the student has chosen his major subject, 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 curriculum, and is a representative of the student before the faculty.

THE BACHELOR OF ARTS CURRICULA

The work in the College of Arts and Sciences leads to the degree of Bachelor of Arts (B. A.). The curriculum demands a 25 credits course and is regularly completed in four years; but a 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 curricula 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. To meet the needs of students desiring a year of college work for admission to a medical school, a schedule of subjects has been outlined. These include: Biology 1; Chemistry 1, 2, 3, 4; English 4, 5; French or German 3a, 3b; Military Science 1.

GRADUATE CURRICULA

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.
College of Arts and Sciences

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 may 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 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.

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.

108
Biology

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 Chrysler; Assistant Professor Boring; Mr. Conser; Mr. Parshley

The course in General Biology forms the basis for work in both zoology 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 Curriculum, 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.

18. Principles of Breeding.—A general review of the facts that form the basis of our knowledge of inheritance. General Biology is required as a preparation for this course. Recitations, two hours a week. Fall semester.

19. Sanitary Science.—Attention is given to the conditions that influence individual and public health. This includes the nature of diseases, their transmission and control, and matters of personal and community sanitation that are often violated and should be understood. Recitations, two hours a week. Spring semester.

Zoology

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 becoming 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. Recitations, two hours a week; laboratory, four hours a week. Fall semester.

5. Animal Physiology.—This is intended for those who already have an elementary knowledge of general biology and physiology. The 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, two 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 recitations 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 desirable as a preparation. Recitations, *two hours a week*; laboratory, † *four hours a week*. Spring semester.

7. **Advanced Zoology.**—This course offers an opportunity for special zoological work along lines suited to the future plans of the student. 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.

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Botany

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. Courses which have recently been given under this caption include: Morphology of Pteridophytes; Structure and technology of woods; Structural and physiographic Ecology; Advanced Plant Physiology; Special problems assigned to individuals. *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. **Plant Ecology.**—Presents briefly two aspects of the subject: (1) Physiographic Ecology studied in the field as far as the season permits; (2) Structural Ecology, viz., the histological features characteristic of plants growing in extreme habitats, and of those having special modes of nutrition. This course must be preceded by Plant Histology. Recitations, *one hour a week*; laboratory, *four hours a week.* Spring semester of even years.

16. **Plant Pathology.**—The diseases of plants, especially those caused by fungi; destruction of timber by fungi; methods of combatting 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
Economics and Sociology

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 course includes dendrology and forest ecology. This course must be preceded by General Biology. Recitations, two hours a week; laboratory, four hours a week. Throughout the year.

CHEMISTRY

* Professor Sprague; Professor Stephens

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. Textbook 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 countries; the monetary history of the United States. Required of junior engineers and all who take course 2b. Open to others by special permission. Text-book and lectures. Two hours a week. Spring semester.

* Absent on leave.
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 taking 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, criminality and prison reform, poverty and its relief, etc. General sociological 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 institutions. Open to all students. Students planning to specialize in economics 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 settlements, anarchy, ribilism, 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 migrations and changes worked by new environments and conflicts. Modern 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.
Economics and Sociology

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.
College of Arts and Sciences

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 or odd years.

Suggestions for students planning to major in Economics and Sociology.

Freshman Year:
No major work should be taken, but the time should be given to the completion of required subjects.

Sophomore Year:
History of all kinds is desirable but “Medieval and Modern History” and the “Social and Industrial” History of Europe and America are especially advised. Biology and psychology are also useful in preparation for the major studies.

Ec 1a and Ec 2a, or Ec 7a and Ec 9a, or Ec 3b and Ec 4b, or Ec 5 may be taken, but never more than two of these courses.

Junior Year:
Any of the “Economics and Sociology” courses suggested for the Sophomore year and not taken should be finished this year. Economics should be completed if convenient.

Senior Year:
Ec 3a, Ec 4a, and Ec 6 should be completed in this year.
The graduating thesis should be arranged for at the beginning of the year and completed by March 1 previous to graduation.

Summer Term

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
Education

of the various banking systems of America and foreign countries; the monetary history of the United States. Required of junior engineers and all who take course 2b. Text-book and lectures.

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, criminality and prison reform, poverty and its relief, etc. General sociological theory will occupy the last weeks of the term. Lectures, readings, and discussions.

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-books, readings, and discussions.

EDUCATION

Professor Jones

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 1 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.

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. Two 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.
English

Summer Term

(Professor Hockenberry)

1. Principles of Education.—The design of the course is to set forth (1) the meaning and aims of education as related to the individual and society; (2) the relative educational value of studies and their organization into the curriculum, as indicated by the recapitulation, culture epoch, formal discipline, and other theories; and (3) the methods of teaching as determined by the mental processes involved, particularly, instinct, habit, attention, interest, apperception, induction, and deduction.

2. Foundation 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; adaption of studies to the child

ENGLISH

Professor Gray; Professor Thompson; *Professor Daggett; Mr. Prince; Mr. Ketcham; Doctor Leighton; Mr. Huff

Two credits in English are required for the B. A. and B. S. degrees. These credits are obtained somewhat differently in the several colleges:

(1) in the College of Arts and Sciences by taking, during the Freshman year, courses 3, 4, 1a, and 1b; and during the Sophomore year in 1911-12 courses 2a and 2b or 2c and 2d; beginning with the fall of 1912 courses 8a and 8b will be substituted; (2) in the College of Agriculture by taking, in the Freshman year, courses 3 and 4; in the Sophomore year courses 1a and 1b (for 1911-12 1a will be given two hours a week,

*Absent on leave.
College of Arts and Sciences

but 1 hour a week subsequently); in the Junior year, beginning with the fall semester of 1913, courses 17 and 14; (3) in the College of Technology by taking 3, 4, and, for the present, 3b and 4b; and in the Sophomore year, for 1911-12, courses 2a and 2b; beginning with the fall of 1912, courses 1a and 1b will be substituted.

English 3 and 4 are pre-requisite, in all colleges, for courses of the Sophomore year. The required courses of the Freshman and Sophomore years may not be postponed until the Junior or Senior year, without permission of the head of the department.

Elective courses in this department should be taken, so far as practicable, in the following order:

First year: Courses 6, 7.

Second year: Courses 6, 7, 8, perhaps 5a and 5b, 15, 20, 21, 31.

Third year: Courses 9, 10a and 10b, 11a and 11b, 12a and 12b, 13, 15, 16a and 16b, 18a and 18b, 19a and 19b, 20, 21, 23, 26.

Fourth year: Courses 10a and 10b, 12a and 12b, 13, 9a and 9b, 23, 26, 18a and 18b, perhaps 24, 25, 27, 30.

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 two 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. Two hours a week in sections. 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. Two hours a week. Spring semester.
English

3p. Composition.—This course is open only to freshmen in the College of Technology. The object of the course is to give practice in certain practical forms of composition such as note taking, business letters, reports of scientific data, etc. Part of the time at the outset is devoted to instruction in the use of the library and to bibliography. Some time is also spent on the fundamental principles of logic. Two hours a week. Fall 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. Two hours a week. Fall semester. One hour a week. Spring semester.

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. Two hours a week. Fall semester. One hour a week. Spring semester.

13. Advanced Composition.—Informal lectures on various literary forms and styles, with a large amount of writing. The object of the course is to cultivate clearness, facility, and individuality of style, and to train students to perceive and appreciate these qualities in the best books.

Students looking forward to newspaper or magazine work, to a literary career, or to teaching, will find this course especially helpful.

Pre-requisites: English 3, 4, 2a, and 2b, or 2c and 2d, and 8. Two hours a week. Fall semester.

17. Composition.—This course gives practice in technical journalism and news writing, in making reports, and summaries of investigation, and in the preparation of theses. Open only to juniors in the College of Agriculture. Two hours a week. Fall semester.

Courses in Public Speaking

1a and 1b. Public Speaking.—The purpose of this course is to give the student a practical knowledge of the fundamental principles of effective public speaking. The work of the first term consists in voice train-
College of Arts and Sciences

ing by means of practice work in classes, pronunciation and enunciation, reading aloud for interpretation, and the acquirement of ease in pose and gesture. During the second term the training thus acquired will be applied to the delivery of model public orations, and especially to speeches of the students' own composition. Special attention will be given to the correction of individual faults. Provided their other work is satisfactory, the eight students obtaining the highest grades in this course are chosen to compete in the sophomore prize declamations. During the year the sections will meet once a week. Open only to freshmen in the College of Arts and Sciences.

1a1 and 1b1. Public Speaking for Sophomores in the Colleges of Technology and of Agriculture.—This course is entirely practical; the formal discussion of the theory of elocution is excluded. The work consists in the writing and delivery of speeches upon subjects in which the student is interested and informed. Speeches, argumentative or otherwise, will be written and delivered as if before a business corporation, a grange, an electrical engineering, or other scientific society, a political organization, etc. Conferences will be held for criticism. One hour a week. Fall and spring semesters.

18a and 18b. Debating.—Application, in this course, is made of the principles of argumentation. Briefs are prepared and the leading questions of the day debated. Two hours a week. Pre-requisites 1a and 1b, or 1a1 and 1b1, 3, 4, 2c, and 2d. Given in 1911-1912.

22. Oral English.—A fundamental course in voice production, dictation, and interpretation of literature. Practice in reading lyric, narrative, and dramatic forms with constant application to the requirements of public speech. Not given 1911-1912.

23a and 23b. Public Speaking.—Forms of address. A study of persuasion applied to letters, editorials, and speeches for various occasions. Preparation of public addresses, and practice in extempore speaking. Two hours. Fall semester. An elective course open to juniors in all colleges.
English

Courses in Language and Literature

4p. Literature.—The careful reading of a few masterpieces of prose and poetry. Open only to freshmen in the College of Technology. Two hours a week. Spring semester.

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. Given in odd years.

5b. Beowulf.—This, the oldest English epic, is read with attention to text, metre, literary and archaeological interests. Three hours a week. Spring semester. Given in odd years. 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. Langland's Piers Plowman is read with attention to text, metre, and literary interests. *Three hours a week.* Fall semester. Pre-requisite 5a. Given in even years.

9b. *Chaucer.*—All of the Canterbury Tales and some of the Minor Poems are read with attention to language, metre, historical, and literary interests. *Three hours a week.* Spring semester. Given in even years.

10a. *Shakespeare and the English Drama.*—A lecture course giving a brief historical survey of the origin and development of the English drama to the time of Shakspere, with assigned reading in the old dramatists. Introductory lectures on the life and art of Shakspere, with a study of an early and a late comedy, and an early and a late tragedy. *Two hours a week.* Fall semester. Given in 1911-1912 and alternate years.

10b. *Shakspere.*—A detailed study of three or four great tragedies of Shakspere. *Two hours a week.* Given in 1911-12 and alternate years.

11a. *American Literature.*—A lecture course giving an historical outline, with assigned reading. *Two hours a week.* Fall semester. Pre-requisite 8a and 8b.


12a. *The Novel.*—A study of the development and technique of the English novel. At least eight of the greatest English and American novels will be read. *Two hours a week.* Fall semester. Given 1911-12 and alternate years.


14. *Literary Types.*—Great books, typical of the several forms of literature, will be read; and an endeavor made to cultivate an appreciation of the best, both in prose and poetry; and to acquire critical
English

knowledge of what constitutes a great drama, a great epic, a great lyric, a great novel, etc. Open only to juniors in the College of Agriculture. Two hours a week. Spring semester.

15. Victorian Poets.—Tennyson, Browning, Rossetti, and Arnold. A study of selected poems, with additional assigned reading in the poets. Special attention is given to the art of Tennyson and Browning. Two hours a week. Fall and Spring semesters.

16a. History of English Literature.—A lecture course giving a brief survey of the development of English literature, extending to the close of the sixteenth century. Assigned reading and reports. Two hours a week. Fall semester. Open to technical students only.

16b. History of English Literature.—This course continues the work of 16a, covering the periods from the sixteenth century to the present time. Two hours a week. Spring semester. Open to technical students only.

19a. Elizabethan Poetry.—A study of Elizabethan non-dramatic poetry, showing its rise and development, its dominant forms and characteristics, and its relations to the life and thought of the age. Two hours a week. Fall semester. Given in 1911-12 and alternate years.

19b. Elizabethan Poetry and Prose.—A continuation of course 19a. The study of Elizabethan poetry will be completed, and the larger part of the semester given to the study of the prose of the period. Two hours a week. Spring semester. Given in 1911-12 and alternate years.

20. English Romantic Poets.—A general view of the English Romantic Movement with some attention to the characteristics of the poetry that preceded this movement; a study of selected poems from the writings of Thomson, Collins, Gray, Cowper, and Burns. Two hours a week. Fall semester. Given in 1912-13 and alternate years.


125
College of Arts and Sciences

5a and 5b. See corresponding numbers under courses in language and literature. These courses are open to graduate students who did not take them as undergraduates.

22. Cynewulf.—Reading of The Christ, and The Elene; and possibly some of the poems attributed to Cynewulf, as the Phœnix, and the Juliana, with attention to text, metre, historical and literary interests. Pre-requisite, 5a and 5b. Three hours a week. Fall semester.

9a and 9b. See corresponding numbers under courses in language and literature. These courses are open to graduate students who did not take them as undergraduates. Pre-requisites, 5a and 5b.

27. The Eighteenth Century (1700-1770).—A study of the rise of prose, the essay, the magazine, the novel, and the beginnings of romanticism, with especial attention to Addison, Steele, Swift, Defoe, Pope, Johnson, Goldsmith, Cray. Lectures, assigned reading, and reports. Two hours a week. Fall and spring semesters.

24. The Victorian Period (1830-1900).—A study of the literary, social, and scientific movements in England and America, the rise of periodical literature, tractarianism, Pre-Raphaelitism, with special attention to Carlyle, Emerson, Newman, Matthew Arnold, Ruskin, Tennyson, Clough, Robert Browning, D. G. Rossetti, Dickens, Thackeray, George Eliot, Jane Austin, and the Brontes. Two hours a week. Fall and spring semesters.

25. Poetics and Prosody.—A study of the various poetic forms, as lyric, epic, drama, and the English metres. One hour a week. Spring semester.

26. History of the English Drama.—Especial attention is given to the immediate predecessors, and the contemporaries of Shakspere. Two hours a week. Given in 1912-13 and alternate years. Fall and spring semesters.

27. Teachers' Course in English.—This course is conducted in co-operation with the department of education. It is open only to majors in English, and of these only, as a rule, to seniors and graduate students. The work is mainly practical with some theory. The students are appointed teachers of English composition and literature in the
English

Short Course in Agriculture. The teaching is done under the constant supervision of the professor of education and the professor of English. Both professors serve as critic teachers and hold conferences. One hour a week is devoted to the theory of teaching. A special certificate will be given for the satisfactory completion of this work. As a rule, only those who have taken this course will be recommended by the department of English as teachers of English.

30. Literary Seminar.—Not given in 1911-1912. Fall and spring semesters.

**SUMMER TERM**

Professor Gray; Mr. Wright; Mr. Weimar

1. Two courses in preparatory English.—The work is designed for two classes of students: (1) those who have entrance credits to make in this department; (2) those who expect to teach the subjects in High Schools.

   a. English Composition. The purpose of this course is to give a thorough drill in correct writing. Special attention will be given to spelling, grammar, punctuation, sentence, and paragraph formation. Three hours a week.

   b. English Literature. A careful, yet necessarily rapid, study of Shakspere’s Macbeth, Milton’s Lycidas, Comus’ L’Allegro, and Il Penseroso, Burke’s Speech on Conciliation with America, and Macaulay’s Life of Johnson. Five hours a week.

2. English Composition and Rhetoric.—The work in this course is similar to that of the fall semester 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-books used will be Woolley’s Hand-book of Composition, Carpenter’s Model English Prose, Cray’s College Theme Tablet. Five hours a week.
College of Arts and Sciences

3. English Composition.—The work in this course is similar to that of the spring semester of the freshman year in the University. The theoretical work consists in a study of the more elementary principles of exposition and argumentation. Practice in making outlines and briefs; themes and six essays. This course will be given if a sufficient number elect it. *Five hours a week.*

4. Nineteenth Century Literature.—This course consists of a study of the social and literary impulses of the early nineteenth century, and considerable reading in such prose writers as Carlyle, Emerson, Newman, Ruskin, Arnold, and Stevenson; and in such poets as Wordsworth, Coleridge, Byron, Shelley, and Keats.

5. The Development of the Drama.—The origin and growth of the drama is traced down to the closing of the theatres. Typical plays are read and discussed. If there is time, an early, and a late play of Shakspere will be read. *Not given in 1911.*

6. Shakspere.—This course includes introductory lectures on the life and art of Shakspere with a study of an early and a late comedy, and an early and a late tragedy. If there is time, lectures and collateral reading on the stage and the Elizabethan people. *Five hours a week.*

7. Old English (Anglo-Saxon).—This course consists of a study of English literature between the 8th and the 12th centuries. Selections from Anglo-Saxon prose and poetry are read with attention to grammar, phonology, the relation of the Anglo-Saxon to modern English, archaeological, historical, and literary interests. This course is offered especially for those who intend to teach English, and will be given if a sufficient number elect it.

**GEOLOGY**

The courses in this subject are described with those in the department of Biological Chemistry.
German

GERMAN

Professor Thompson; Doctor Drummond; Mr. Samra

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

3a, 3b. Second Year German.—A course for students who have had courses 1, 2 or equivalent. The grammar study, composition and text 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 completed. 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.
College of Arts and Sciences

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.

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 Althochdeutsches 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.

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

SUMMER TERM

(DOCTOR DRUMMOND)

1. ELEMENTARY COURSE.—For those who wish to acquire or review the essentials of German grammar and the foundations of a German vocabulary.

2. SECOND YEAR GERMAN.—This course is designed for students who have completed a year's work in German or for such teachers as may wish to review their work in this department.

3. CONVERSATIONAL GERMAN.—For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs. Twice a week.

4. GERMAN LITERATURE.—A brief course of lectures covering a period of German literature. This course is designed for advanced students. Three times a week.

Other advanced courses in German may be substituted for Courses 2 and 4 if they seem better adapted to the needs of the students.

GREEK AND CLASSICAL ARCHAEOLOGY

PROFESSOR HUBBILSTON

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 curriculum 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.
College of Arts and Sciences

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.
Greek and Classical Archaeology

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

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 view 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.
College of Arts and Sciences

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 1912-1913.


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.
History

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, outside reading, and detailed study of the reproduction in the Art Collection. Open to all students. Two hours per week for the year. Given in 1910-11.


HISTORY

Professor Colvin

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

2. Modern History.—Continuation of course 1 to the present time. A rapid survey of the Reformation; the absolute monarchy in France; the French Revolution; the Napoleonic era; Europe in the nineteenth century. Open to all students. Three hours a week. Spring semester. Courses 1 and 2 will be given in 1912-1913.

3. History of England.—From early times to the beginning of the Stuart period. Special attention is given to social and industrial conditions. Open to all students. Three hours a week. Fall semester.

4. History of England.—Continuation of course 3. From the beginning of the Stuart period to the present. Open to all students. Three hours a week. Spring semester. Courses 3 and 4 are given in 1911-1912.
College of Arts and Sciences

5. **History of the United States.**—A general course from 1848 to the present time. Open to technical students only. *Two hours a week.* Fall semester.

6. **History of the United States.**—The period from 1783 to 1848. This course will begin with a brief study of Colonial history from 1750. Open to all students. *Three hours a week.* Fall semester.

7. **History of the United States.**—A continuation of course 6, from 1848 to the present time. Open to all students. *Three hours a week.* Spring semester.

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

(The following courses are open only to advanced students.)

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

10. **The Renaissance and the Reformation.**—A continuation of course 8. *Two hours a week.*

11. **Modern Continental Europe.**—The period from the Peace of Utrecht to 1789. *Three hours a week.*

12. **Modern Continental Europe.**—Period of the French Revolution and Napoleon I. *Three hours a week.*

13. **Modern Continental Europe.**—The period since 1815. *Three hours a week.*

14. **Historical Construction and Criticism.**—*One hour a week.* Greek History and Roman History are given in the departments of Greek and Latin.
Latin

Summer Term

1. United States History.—A brief course of two recitation periods a week, reviewing the work done in preparatory school. This course is designed to prepare a student who has taken the course in United States History for the entrance examinations of the University.

2. English History.—This course will be given three times a week, and has a purpose similar to that of the course in United States History.

3. Modern European History.—A course designed for teachers and graduate students. It covers the history of Western Europe from 1500 to date. Five hours a week.

4. Advanced History.—A course in Advanced History will be offered to graduate students and others who are prepared to take it. The character of the work will be determined by the requirements of the students who elect it.

Latin

Professor Chase

Courses in Latin 1, 2, fulfill the classical requirements for the B. A. degree.

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, Trinummus, or Menaechmi of Plautus: lectures on the development of Roman comedy. Three times a week. Fall 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, Lucilius, Varro, Horace, Persius, Juvenal, Petronius. Open to students who have taken, or are taking, courses 3-4, or 7-8. *Two hours a week.* Given in the fall semester of even 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, Tusculane Disputationes, De Finibus, De Natura Deorum); lectures on the history and development of ancient philosophy. Open to students who have taken, or are taking, courses 3-4 or 7-8. *Two hours a week.* Given in the fall semester of even years.

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.
Latin


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. **Teachers' Course.**—Discussion of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Cæsar, Cicero, and Vergil. *One hour a week.* Fall 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 Cicero's Speeches and one in Caesar'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. The choice of subject will rest partly with the class. 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.
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 is Stone and Millis's Solid Geometry. *Five hours a week for last 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.

5. **Algebra and Trigonometry.**—A brief review of radicals, the theory of exponents, quadratic equations, and the binomial theorem; logarithms, including practice in the solution of numerical exercises; the trigonometric functions; radian measure; functions of several angles; solution of right and of oblique triangles; trigonometric equations; inverse functions; determinants; theory of equations. The text-book is Brenke's Advanced Algebra and Trigonometry. *Five hours a week.* Fall semester.

6. **Analytic Geometry.**—The point, line, circle and conic sections; higher plane curves; elements of solid analytic geometry. The text-

* Absent on leave.
book is Riggs’ Analytic Geometry. *Five hours a week.* Spring semester. Open to students who have had course 5 and the equivalent of course 1, or courses 2, 4 and 1.

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, and 6; or 1, 5, and 6. The text-book is Osborne’s Differential and Integral Calculus. *Five hours a week.* Fall semester.

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, vertical circle, astronomical transit, and zenith telescope. 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, or course 5. *Three hours a week.* Fall semester.

12. **ADVANCED CALCULUS.**—This course is varied from time to time by using different texts. Open to students who have taken courses 6, 7, and 8. *Three hours a week.* Given in the fall semester of odd years.
Mathematics and Astronomy

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

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.* Spring semester.

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.* Fall semester. Given in 1910; not given in 1911.

17. Practical Astronomy.—A continuation of course 16.  
*Three hours a week.*

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

*Three hours a week.* Given in the spring semester of odd years.

*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.* Fall semester.

22b. A continuation of course 22a.  
*Two hours a week.* Spring semester.
College of Arts and Sciences

For courses in mechanics and in descriptive geometry refer to the department of mechanics and drawing in the College of Technology; for courses in surveying refer to the department of civil engineering in the College of Technology.

SUMMER TERM

(PROFESSOR HART, ASSISTANT PROFESSOR HAMLIN, MR. REED)

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 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, Wells'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 may 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.
Philosophy

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.

9. **Analytic Geometry,** the equivalent of course Mathematics 6b, in the University Catalog.

10. **Calculus,** the equivalent of course Mathematics 8 in the catalog.

11. **Mechanics,** the equivalent of course Mechanics 5 in the catalog.

12. **Mechanics,** the equivalent of course Mechanics 6 in the catalog.

**Note:**—Nine of the above courses will be given, the choice to be determined by the number of students electing.

Courses 9, 10, 11 and 12, being review courses, may be taken only by those who have previously pursued the subject.

**MILITARY SCIENCE AND TACTICS**

*The courses in this department are described on page 199.*

**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 1b, 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.

1a. **Psychology.**—The subjects treated in this course are the anatomy and physiology of the nervous system and sense-organs, and the psychology of sensation, perception, instinct, habit, and memory. The
College of Arts and Sciences

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 good, recent book on evolution, and a similar work on human physiology. Two text-books: James's Psychology (Briefer Course); Judd's Psychology, General Introduction. Three hours a week. Fall semester.

1b. Psychology.—A continuation of course 1, dealing especially with the higher psychic functions, such as imagination, conception, emotion, and will. All students who have taken course 1a are advised to follow it with 1b. Three hours a week. Spring semester.

3. Ethics.—The object of this course is to aid the student to do serious thinking on the subject of morality—including all the virtues—a subject on which every college man ought to cultivate intelligent thought. Two hours a week. Fall semester. The text-book is Perry's The Moral Economy.

4. Social Psychology.—A study of the social aspects of the individual mind; of social influence and social control; of fashion, convention, and custom; of the crowd, the mob, the public, and the deliberative assembly. Lectures and collateral readings. Two hours a week. Spring semester.

5a. Inductive Logic.—A study of the method of science; the methods of gathering facts and of deriving correct conclusions from the facts. The text-book is Creighton's Logic. Two hours a week. Fall semester.

5b. Deductive Logic.—The purpose of this course is to develop clear thinking and the precise expression of thought in words. This is done largely by exercise in the solution of logical problems. Text-book: Creighton's Logic. Two hours a week. Spring semester. Courses 5a and 5b are independent of one another.

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. Rogers's A Student's History of Philosophy is used as a text-book. Three hours a week. Fall semester of even years.
Philosophy

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. Three hours a week. Spring semester of odd years.

8. Seminar.—For advanced students. Reviews of recent literature, both philosophical and psychological. The student may select literature on a topic in which he is especially 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.—The idea of evolution dominates all thought in our era. This course gives a broad and rapid survey of evolution in all its phases, cosmic, geologic, organic, psychic, and social. Lectures and collateral reading. Two hours a week. Fall semester.

11. Metaphysics.—Discussion of the bearing of philosophy upon science and upon life; materialism versus idealism; the relation of mind to matter; the nature of reality; the validity of knowledge; and similar fundamental problems. Text-book, Fullerton's Introduction to Philosophy. Two hours a week. Spring semester.

12. Readings in Modern Philosophy.—Given every other year, alternating with course 6 and 7 on the history of philosophy. This course also deals with the history of philosophy, taking up a single philosopher or a single period for intensive study. For students who are interested in history, literature, or modern thought and thinkers. Three hours a week. Fall semester of odd years and spring semester of even years.
PHYSICAL TRAINING

The courses in this department are described on page 200.

PHYSICS

Professor Stevens; Assistant Professor Woodman; Mr. Drew; Mr. Ulrey

[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.

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.

4. 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 Crew and Jones's Elements of Physics. *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 4. *Five hours a week. Spring semester.

6. Meteorology.—A course covering the essential principles of the subject of meteorology, including a study of meteorological instruments and weather predictions. *Two hours a week. Spring semester.
Physics

7. Optics.—Lectures and recitations in continuation of course 1, based chiefly upon Edser's Light. Open to students who have taken Mathematics 8. *Three hours a week.* Spring semester of 1911-1912 and alternate years.

8. Optics.—Advanced laboratory work in continuation of course 5. *Seven and one-half hours a week, or five hours a week.* Spring 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. 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 of 1910-1911 and alternate years.

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

12. Theory of Electricity and Magnetism.—Continuation of course 10, with applications to alternating current phenomena. *Three hours a week.* Spring semester of 1910-1911 and alternate years.


15. Special Laboratory Course.—A course open to students who have completed courses 8, 9, 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

(Professor Stevens; Assistant Professor Woodman)

1. An Elementary Course.—This includes the list of experiments adopted by the Maine colleges for admission in physics.

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

3. College Physics.—A course based upon those parts of the text-book in physics which treat of mechanics, light, and sound. This course may be taken for credit only by students who have pursued the subject for a regular semester at the University.

4. College Physics.—A course based upon those parts of the text-book in physics which treat of electricity and heat. This course may be taken for credit by university students who have covered the ground in Physics 2, but have failed in the subject.

5. High School Physics.—A rapid survey of the ground covered in high school, based upon Millikan and Cale's text-book. This course is designed to meet the needs of teachers in high schools and it may be taken as a rapid review by students who have covered the ground in high school but have failed to pass college entrance examinations.
Romance Languages

ROMANCE LANGUAGES

Professor Segall; Associate Professor Raggio

French

1. Elementary French.—Fraser and Squair’s Abridged Grammar. Sym’s Reader. *Five hours a week.* Fall semester.


3a. Intermediate French.—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.


4a. Advanced French.—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.
6a. **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.


7a. **Advanced French Composition and Conversation.**—Open to students who have taken 5a and 5b, or an equivalent. *Two hours a week.* Fall semester.

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

**Spanish**

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


10a. **Intermediate Spanish.**—Alarcón; Galdós; Valera, Composition. Open to students who have taken courses 9a and 9b. *Three hours a week.* Fall semester.

10b. **Intermediate Spanish.**—A continuation of course 10a. *Two hours a week.* Spring semester.

**Italian**

11a. **Elementary Italian.**—Grandgent’s Grammar; Bowen, First Italian Readings. Open to students who have taken courses 1 and 2. *Three hours a week.*

11b. **Elementary Italian.**—A continuation of course 11a. Composition; Goldoni, La Locandiera; Gherardi del Testa, L’oro e l’orpello. *Two hours a week.*
Romance Languages

Summer Term

(Mr. Raiche; Mme. 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, Gendre de M. Poirier (American Book Co.); France, 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. Conversational French.—A course designed to familiarize the student with the common words, idioms, phrases, and constructions occurring in daily life. Conducted by Mme. Raiche. Three times a week.

4. Rapid Sight Reading.—A course, for students who are sufficiently advanced, in the rapid reading of a large amount of French prose and poetry. Conducted by Mme. Raiche. Twice a week.

* 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.
College of Law

COLLEGE OF LAW

FACULTY OF INSTRUCTION

WILLIAM EMANUEL WALZ, M. A., LL. B., Litt. D.  
Dean and Professor of Law

EDGAR MYRICK SIMPSON, B. A.  
Assistant Professor of Real Property and Evidence

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

GEORGE HENRY WORSTER, LL. M.  
Instructor in Law

BARTLETT BROOKS, B. A., LL. B.  
Instructor in Contracts and Negotiable Paper

LUCILIUS ALONZO EMERY, M. A., LL. D., Ex-Chief Justice of the Supreme Court of Maine  
Lecturer on Roman Law and Probate Law

LOUIS CARVER SOUTHARD, M. S., LL. D., Member of the Massachusetts Bar and of the United States Supreme Court Bar  
Lecturer on Medico-Legal Relations

EDWARD HARWARD BLAKE, LL. B., LL. D.  
Lecturer on Admiralty Law

ISAAC WATSON DYER, B. A.  
Lecturer on Federal Jurisdiction and Procedure, and on Private Corporations

HERBERT MILTON HEATH, M. A. Lecturer on Cross-Examination

JOHN ROGERS MASON, M. A., LL. B.  
Lecturer on Bankruptcy, Law, and Procedure
General Information

GENERAL INFORMATION

The College of Law was opened to students in 1898. It occupies the Isaac H. Merrill building, recently purchased by the university, corner Union and State 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 Federal Courts and of the Supreme Court of the United States, Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Ohio, and the Court of Appeals of New York, the New York Common Law and Chancery Reports, the American Decisions, American Reports, American State Reports, the Complete Reporter System, the Lawyers' Reports Annotated, all the Law Encyclopedias, and a considerable number of text-books, as also the English Reports, full verbatim reprint, and the American Digest.

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.
College of Law

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 sub­
jects 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,
on presentation of their certificates of admission to the bar at the begin­
ning of the fall term, while graduate students may take one of the two
courses leading to the degree of Masters of Laws.

INCREASE OF ENTRANCE REQUIREMENTS

In harmony with the greater demands made by the legal profession
and the public, and in recognition of the fact that University standards
throughout the country are being gradually raised, it is intended in
course of time to go beyond these requirements, and, in addition to the
high school education prescribed, two years college work may be re­
quired as a preliminary preparation of all candidates for the law degree.

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 great­
est 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 stand­
point 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 re­
quirements for admission to the bar in the State of Maine. The col-
Courses of Instruction

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.

COURSES OF INSTRUCTION

1. Admiration.—A course of lectures. One hour a week. Spring term. Mr. Blake.


3. Bankruptcy.—Lectures. Two hours a week. Winter term. Mr. Mason.
College of Law


5. **Carriers.**—Text-book, McClain's Cases on Carriers. *One hour a week.* Fall term. **Professor Simpson.**

6. **Carriers.**—A continuation of course 5. *Three hours a week.* Winter term. **Professor Simpson.**

7. **Common Law Pleading.**—Lectures. *Two hours a week.* Winter term. **Mr. Martin.**

8. **Common Law Pleading.**—A continuation of course 7. *One hour a week.* Spring term. **Mr. Martin.**

9. **Conflict of Laws.**—Dwyer's Cases. *Three hours a week.* Spring term. **Professor Simpson.**

10. **Constitutional Law.**—Boyd's Cases. *Two hours a week.* Spring term. **Mr. Worster.**

11. **Contracts.**—Keener's Cases on Contracts. *Four hours a week.* Fall term. **Mr. Brooks.**

12. **Contracts.**—A continuation of course 11. *Three hours a week.* Winter term. **Mr. Brooks.**

13. **Contracts.**—A continuation of course 12. *Two hours a week.* Spring term. **Mr. Brooks.**

14. **Criminal Law.**—Beale's Cases on Criminal Law. *Two hours a week.* Winter term. **Professor Simpson.**

15. **Criminal Law.**—A continuation of course 14. *Three hours a week.* Spring term. **Professor Simpson.**

16. **Cross-Examination.**—Lectures. **Mr. Heath.**

17. **Damages.**—Beale's Cases on Damages. *Three hours a week.* Winter term. **Mr. Worster.**
Courses of Instruction

18. **Domestic Relations.**—Smith's Cases on Persons. *Three hours a week.* Fall term. **Professor Simpson.**

19. **Equity Jurisprudence.**—Bispham on Equity Jurisprudence and Shepard's Cases on Equity. *Four hours a week.* Fall term. **Professor Walz.**

20. **Equity Jurisprudence.**—A continuation of course 19. *Three hours a week.* Winter term. **Professor Walz.**

21. **Equity Pleading.**—Lectures. *Two hours a week.* Winter term. **Professor Simpson.**

22. **Evidence.**—Thayer's Cases. *Four hours a week.* Fall term. **Professor Simpson.**

23. **Evidence.**—A continuation of course 22. *Three hours a week.* Winter term. **Professor Simpson.**

24. **Evidence.**—Lectures. *Number of hours not fixed.* Winter term. **Mr. ————**

25. **Executors and Administrators.**—Lectures. *One hour a week.* Spring term. **Professor Simpson.**

26. **Federal Courts.**—Lectures. *One hour a week.* Spring term. **Professor Walz.**

27. **Federal Jurisdiction and Procedure.**—Lectures. **Mr. Dyer.**

28. **General Review.**—Gardner's Review. *One hour a week.* Fall term. **Professor Walz.**

29. **General Review.**—Gardner's Review. *One hour a week.* Spring term. **Professor Walz.**

30. **General Review.**—Gardner's Review. *One hour a week.* Spring term. **Professor Walz.**

31. **History of Law.**—Lectures. *One hour a week.* Fall term. **Professor Walz.**
College of Law

32. **Insurance.**—Woodruff's Cases. *Three hours a week.* Spring term. Mr. Worster.

33. **International Law.**—Lectures. *One hour a week.* Fall term. Professor Walz.


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

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


40. **Partnership.**—Ames's Cases. *Four hours a week.* Spring term. Professor Walz.

41. **Private Corporations.**—Wilgus's Cases. *Four hours a week.* Fall term. Mr. Worster.

42. **Private Corporations.**—A continuation of course 41. *Three hours a week.* Winter term. Mr. Worster.

43. **Private Corporations.**—Lectures. Mr. Dyer.

44. **Probate Law and Practice.**—Lectures. *About ten hours.* Spring term. Ex-Chief Justice Emery.

45. **Real Property.**—Tiffany on Real Property. *Four hours a week.* Fall term. Professor Simpson.
Courses of Instruction


47. Real Property.—Finch's Cases on the Law of Property in Land. *Four hours a week.* Spring term. Professor Simpson.


49. Sales.—Burdick's Cases. *Two hours a week.* Fall term. Mr. Worster.

50. Sales.—A continuation of course 49. *Two hours a week.* Winter term. Mr. Worster.

51. Suretyship.—Ames's Cases. *Two hours a week.* Fall term. Mr. Worster.

52. Suretyship.—A continuation of course 51. *Two hours a week.* Winter term. Mr. Worster.

53. Torts.—Ames and Smith's Cases. *Four hours a week.* Fall term. Professor Walz.


55. Torts.—A continuation of course 54. *Two hours a week.* Spring term. Professor Walz.

56. What to Do in Court.—Lectures. *About ten hours.* Fall or spring term. Ex-Chief Justice Emery.

57. Wills.—Chaplin's Cases. *Three hours a week.* Spring term. Mr. Worster.
THE COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

HAROLD SHERBURNE BOARDMAN, C. E.
Dean and Professor of Civil Engineering

WILBUR FISKE JACKMAN, B. S., Ph. C. Professor of Pharmacy

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

WALTER KIERSTED CANONG, B Sc.
Professor of Electrical Engineering

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

CHARLES BARTO BROWN, C. E.
Professor of Railroad Engineering

RALPH HARPER McKEE, Ph. D. Professor of Chemistry

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

ARCHER LEWIS GROVER, B. S. Assistant Professor of Drawing

PAUL LEONARD BEAN, B. S.
Assistant Professor of Civil Engineering

ALBERT THEODORE CHILDS, B. S., E. E.
Assistant Professor of Electrical Engineering

WINSLOW HOBART HERSCHEL, B. A.
Assistant Professor of Mechanical Engineering

EVERETT WILLARD DAVEE Instructor in Wood and Iron Work

CHARLES JENKINS CARTER Instructor in Machine Tool Work

WALTER ELWOOD FARNHAM Instructor in Drawing

ERNEST CONANT CHESWELL

Instructor in Electrical Engineering

JULIUS ERNEST KAULFUSS, B. S. Instructor in Civil Engineering

162
General Information

LLOYD MEEKS BURGHART, M. A.  Instructor in Chemistry
ARTHUR MOSES BUSWELL, B. A.  Instructor in Industrial Chemistry
RAYMOND BROWN KITTREDGE, B. S.  Instructor in Civil Engineering
CARL HENRY LEKBERG, B. S.  Instructor in Mechanical Engineering
CARL HENRY LEKBERG, B. S.  Instructor in Medical Engineering
EARLE OVANDO WHITTIER, B. S.  Instructor in Chemistry
ALLEN HOLT BLAISDELL, B. S.  Tutor in Mechanical Engineering

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 Curriculum
The Chemical Engineering Curriculum
The Civil Engineering Curriculum
The Electrical Engineering Curriculum
The Mechanical Engineering Curriculum
The Pharmacy Curriculum

At graduation in any of these curricula the student receives the degree of Bachelor of Science. The diploma indicates which curriculum has been completed.

THE CHEMICAL CURRICULUM

This curriculum 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.
### College of Technology

#### Freshman Year

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<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
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<th>Spring Semester</th>
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<td>Chemistry 4, †4</td>
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<td>French 3b</td>
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<td>or German 1a</td>
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<td>German 1b</td>
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#### Sophomore Year

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<td>Chemistry 16, †10</td>
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<td>Chemistry 7, 3 and †4</td>
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<td>English 1b</td>
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<td>Physics 1</td>
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#### Junior Year

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<th>Subject</th>
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<th>Spring Semester</th>
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<td>Biological Chemistry 1</td>
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<td>Agricultural Chemistry 4</td>
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<td>Chemistry 8</td>
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<td>Chemistry 32a</td>
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<td>Bacteriology 1, †6</td>
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<td>Chemistry 20a</td>
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<td>Chemistry 26, †6</td>
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<td>Chemistry 18, †8</td>
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<td>Chemistry 32b</td>
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<td>Modern Language</td>
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164
### The College Curricula

#### SENIOR YEAR

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<th>Subject</th>
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<td>Chemistry 23</td>
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<td>Chemistry 24a</td>
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<td>Chemistry 19, †8</td>
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<td>Geology 6 or Chemistry 33</td>
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<td>Elective</td>
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<tr>
<td>Chemistry 24b</td>
<td>2</td>
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<tr>
<td>Chemistry 22, †10</td>
<td>5</td>
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<td>Chemistry 13, †3</td>
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<td>Chemistry 29b</td>
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<td>Chemistry 28, †2</td>
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17

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.

#### THE CHEMICAL ENGINEERING CURRICULUM

This curriculum 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.

#### FRESHMAN YEAR

<table>
<thead>
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<td>Drawing 1, *6</td>
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<tr>
<td>English 3 and 3p</td>
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<tr>
<td>German 1a or French 3a</td>
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<td>Mathematics 5</td>
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<td>Physical Training *2</td>
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19 1-2

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<tr>
<td>Chemistry 4, †4</td>
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<td>Drawing 2, *6</td>
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<tr>
<td>English 4 and 4p</td>
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<tr>
<td>German 1b or French 3b</td>
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</tr>
<tr>
<td>Mathematics 6</td>
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</tr>
<tr>
<td>Military 1, *3</td>
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<tr>
<td>Physical Training *2</td>
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20

165
### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>English 1a†</td>
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<tr>
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<tr>
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<tr>
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### JUNIOR YEAR

<table>
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<tbody>
<tr>
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</tr>
<tr>
<td>Chemistry 18, † 8</td>
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<tr>
<td>Chemistry 32a</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 9, † 4</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 29a</td>
<td>2</td>
</tr>
<tr>
<td>Mechanical Engineering 26, † 3</td>
<td>1 1-2</td>
</tr>
<tr>
<td>Physics 11, † 7 1-2</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<td>Chemistry 23</td>
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<tr>
<td>Chemistry 12, † 6</td>
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</tr>
<tr>
<td>Chemistry 33 or Geology 6</td>
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</tr>
<tr>
<td>Electrical Engineering 10a.</td>
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<tr>
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<tr>
<td>Chemistry 24b</td>
<td>2</td>
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<tr>
<td>Chemistry 22, † 10</td>
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<td>Chemistry 28, † 2</td>
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<td>Chemistry 29b</td>
<td>2</td>
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<tr>
<td>Chemistry 25, † 4</td>
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</tr>
<tr>
<td>Elective</td>
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18 1-2                                      

21                                           

18 1-2                                      

18                                           

17                                           

166
The College Curricula

The Civil Engineering Curriculum

The object of the curriculum in Civil Engineering is to give the student as thorough a knowledge as possible of the principles underlying the profession. It is not possible in the time usually devoted to a college course to take up more than the most important technical subjects, hence the time devoted to those subjects designed to cultivate and broaden the mind is necessarily small. The attempt is made, however, to give the student not only a technical education, but to form the basis for a liberal one as well.

The attention of the student is directed to the fact that the scope of civil engineering is so broad that he may never expect to become expert in all of its branches, and that on the completion of his course he should obtain employment in that branch for which he seems best adapted.

It is impressed upon his mind that the granting of his bachelor's degree does not create him an engineer. It simply indicates that he has received the technical mental training which will fit him to follow the profession, and that he must begin at the bottom of the ladder of practice in order to obtain experience and judgment, without which he can never become successful.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice and designing. Effort is made to acquaint the student with the best engineering practice, and with the standard engineering literature. During each year it is the practice to have several lectures by engineers from other institutions and from the engineering world. These lectures tend to increase the interest of the student, and to bring him in touch with men outside of his institution.

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' curriculum. Certain general subjects which are given as requirements, may, on presentation of satisfactory reasons to the head of the department, be omitted and others substituted.

Requirements for Graduation

Freshman Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
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<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>2</td>
<td>Chemistry 2</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 3, † 4</td>
<td>2</td>
<td>Chemistry 4, † 4</td>
<td>2</td>
</tr>
<tr>
<td>Drawing 1, * 6</td>
<td>2</td>
<td>Drawing 2, * 6</td>
<td>2</td>
</tr>
<tr>
<td>English 3 and 3p</td>
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<td>English 4 and 4p</td>
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<tr>
<td>Mathematics 5</td>
<td>5</td>
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<td>5</td>
</tr>
<tr>
<td>Military 1, * 3</td>
<td>1</td>
<td>Military 1, * 3</td>
<td>1</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
<td>Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Physical Training * 2</td>
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19 1-2                   20

Sophomore Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Civil Engineering 1a, 2a</td>
<td>2 1-2</td>
<td>Civil Engineering 2b, 2c</td>
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</tr>
<tr>
<td>Drawing 3, * 6</td>
<td>2</td>
<td>Civil Engineering 3a, 4a</td>
<td>3</td>
</tr>
<tr>
<td>English 1a†</td>
<td>1</td>
<td>Drawing 4, * 6</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 7</td>
<td>5</td>
<td>English 1b†</td>
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<td>Mathematics 8</td>
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<td>Modern Language</td>
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<tr>
<td>Physics 1</td>
<td>5</td>
<td>Modern Language</td>
<td>2</td>
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<td></td>
<td></td>
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<td>3</td>
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<td></td>
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<td>Physics 5, * 5</td>
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</tbody>
</table>

19 1-2                   21

168
### The College Curricula

#### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Civil Engineering 3b</td>
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</tr>
<tr>
<td>Civil Engineering 4b, 4c, *6</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 5</td>
<td>2</td>
</tr>
<tr>
<td>Economics 1a</td>
<td>2</td>
</tr>
<tr>
<td>Geology 6</td>
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<td>Mechanics 5</td>
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<td>Mathematics 10</td>
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<td>Physics 19</td>
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<td>Physics 9</td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 9b</td>
<td>2</td>
</tr>
<tr>
<td>Economics 1a</td>
<td>2</td>
</tr>
<tr>
<td>Mechanics 6</td>
<td>5</td>
</tr>
<tr>
<td>Mechanical Engineering 25</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
</tr>
<tr>
<td><strong>Elective</strong></td>
<td><strong>19</strong></td>
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</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Civil Engineering 12</td>
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</tr>
<tr>
<td>Civil Engineering 20</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 14, †12</td>
<td>6</td>
</tr>
<tr>
<td>Civil Engineering 11a, †4</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Civil Engineering 25a</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering 11b, †2</td>
<td>1</td>
</tr>
<tr>
<td>History 5</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 13a</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering 13b</td>
<td>2</td>
</tr>
<tr>
<td>Civil Engineering 15, †6, 3</td>
<td>3</td>
</tr>
<tr>
<td>Civil Engineering 17 and 18</td>
<td>4</td>
</tr>
<tr>
<td>Electrical Engineering 12b or 25b</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering 24 and 25b</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering 26, †2</td>
<td>1</td>
</tr>
<tr>
<td>Economics 6</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

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.

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**Taken after Commencement.**

† By special arrangement Physics 8, given in the spring semester, may be substituted for Physics 9.
College of Technology

The Electrical Engineering Curriculum

This curriculum 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 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 auto-transformers 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

Freshman Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
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<td>Subject</td>
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</tr>
<tr>
<td>Chemistry 1</td>
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<td>Chemistry 2</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 3, †4</td>
<td>2</td>
<td>Chemistry 4, †4</td>
<td>2</td>
</tr>
<tr>
<td>Drawing 1, *6</td>
<td>2</td>
<td>Drawing 2, *6</td>
<td>2</td>
</tr>
<tr>
<td>English 3 and 3p</td>
<td>4</td>
<td>English 4 and 4p</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 5</td>
<td>5</td>
<td>Mathematics 6</td>
<td>5</td>
</tr>
<tr>
<td>Military 1, *3</td>
<td>3</td>
<td>Military 1, *3</td>
<td>1</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
<td>Modern Language</td>
<td>2</td>
</tr>
<tr>
<td>Physical Training *2</td>
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</tr>
<tr>
<td></td>
<td>19 1-2</td>
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<td>20</td>
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170
### The College Curricula

#### SOPHOMORE YEAR

<table>
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<td>English 1a</td>
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</tr>
<tr>
<td>Mathematics 7</td>
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</tr>
<tr>
<td>Mechanical Engineering 1b, *4</td>
<td>1-2</td>
</tr>
<tr>
<td>Military 1, *3</td>
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<tr>
<td>Modern Language</td>
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<td>Physics 1</td>
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#### JUNIOR YEAR

<table>
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<tr>
<th>Course</th>
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</tr>
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<td>Civil engineering 1b and 2a</td>
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<td>Mechanics 5</td>
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</tr>
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<td>Physics 11, *7</td>
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<td>Economics 1a or 7a</td>
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<tr>
<td>History 5</td>
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<tr>
<td><strong>Total</strong></td>
<td>17 1-2</td>
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#### SENIOR YEAR

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</thead>
<tbody>
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<td>Electrical Engineering 4a</td>
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<td>Electrical Engineering 5a, *4</td>
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<tr>
<td>Mechanical Engineering 11</td>
<td>3</td>
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<td>Elective</td>
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<td><strong>Total</strong></td>
<td>16 1-2</td>
</tr>
</tbody>
</table>

* denotes introductory course; † denotes summer course.
College of Technology

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 Mechanical Engineering Curriculum

The field of the mechanical engineer embraces all works involving the design, construction, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and ventilating or refrigerating equipment; the superintendence or management of factories, power plants, and motive power and equipment of railways, and similar work.

The Mechanical Engineering Curriculum is arranged to fit men as well as possible in four years' time to enter any of these lines of work. It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses, while those subjects which are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short and his acquirement of the knowledge necessary for advancement rapid.

The theoretical work is taught mainly by recitation based upon a carefully chosen text, which is supplemented or brought down to date where necessary, by explanation or illustrative examples on the part of the instructor. Numerous problems are assigned for work outside the classroom to make sure the student can apply the principles learned.

Courses in the shops and laboratories illustrate the application of matter learned in the recitation work, and also teach methods of construction, operation and testing of apparatus by direct contact with it. In the drawing rooms application of theories to work in design is taught together with methods and requirements for the production of neat and accurate engineering drawings.

Thorough instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice
The College Curricula

in the electrical laboratory. Sufficient time is devoted to recitation and field work in surveying to give familiarity with instruments and methods. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

Of the one hundred and fifty term hours required for graduation thirty-three are devoted to instruction in English composition and literature, modern language, economics, business law, and history. Opportunity to take additional work along general lines is offered and recommended to those who can readily carry it.

Requirements for Graduation

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Fall Semester</td>
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<td></td>
<td>Chemistry 3, † 4</td>
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<td>Drawing 1, *6</td>
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<td>Drawing 2, *6</td>
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<td>English 3 and 3p</td>
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<td>English 4 and 4p</td>
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<td></td>
<td>Mathematics 5</td>
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<td>5</td>
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<tr>
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<td>Military 1, *3</td>
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<td>Military 1, *3</td>
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<td>Physical Training *2</td>
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19 1-2

<table>
<thead>
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<tr>
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<td>Physics 5, *5</td>
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19 1-2
### JUNIOR YEAR

<table>
<thead>
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<th>Course</th>
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<tr>
<td>*6</td>
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<tr>
<td>Mechanical Engineering 9</td>
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<td>*4</td>
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<td>Mechanics 5</td>
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<td>Physics 9, *5</td>
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<td>Economics 1a</td>
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**Total Credits:** 18

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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</table>

**Total Credits:** 17

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 College Curricula

The Pharmacy Curriculum

The Department of Pharmacy comprises:
- The Pharmacy Curriculum
- The Short Curriculum in Pharmacy

This curriculum 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 curriculum. 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 of his art, 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.
College of Technology

Requirements for Graduation

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Semester</th>
<th>Hours</th>
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<tbody>
<tr>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Subject</th>
<th>Spring Semester</th>
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<td>English 1a</td>
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**JUNIOR YEAR**

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<td>Bacteriology 1, † 6</td>
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<td>Chemistry 19d, † 4</td>
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<tr>
<td>Pharmacy 5</td>
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<td>Chemistry 19f, † 2</td>
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176
The College Curricula

Senior Year

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
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<td>Pharmacy 4</td>
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<td><strong>Total</strong></td>
<td>18</td>
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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 Curriculum in Pharmacy

This curriculum of two years, is designed for those who, for lack of time or for other reasons, are unable to take the curriculum 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 curriculum corresponds, in general, to the usual full curriculum 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 curriculum does not warrant extending to other than advanced students the privilege of electives.

Requirements for Graduation

Freshman Year

<table>
<thead>
<tr>
<th>Full Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Subject</td>
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<td><strong>Total</strong></td>
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177
College of Technology

**SOPHOMORE YEAR**

<table>
<thead>
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<tbody>
<tr>
<td>Chemistry 8</td>
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<td>Pharmaceut. Histol. 14</td>
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<td>Chemistry 31</td>
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<td>Pharmacy 11</td>
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Students who complete this curriculum in a satisfactory manner receive the degree of Pharmaceutical Chemist.
DEPARTMENTS OF INSTRUCTION

CHEMISTRY

Professor McKee; Associate Professor Easley; Mr. Burghart; Mr. Buswell; Mr. Whittier

1. General Chemistry.—This course deals with the general principles of the science. Lectures and recitations. *Two hours a week.* Fall semester.

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.—An elementary course giving in one semester a rapid view of the subject. Students who have sufficient time available are advised to take courses 7 and 8 instead of this course. No prerequisite other than General Chemistry. *Three hours class room and †four hours laboratory work a week.* Spring semester.

7. 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. Holleman's Laboratory Manual is used for the experimental
College of Technology

work. *Three hours class room and †four hours laboratory work a week.* Spring semester.

8. **Organic Chemistry.**—A continuation of course 7. The work is chiefly in the aromatic series. *Three hours a week.* Fall semester.

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. *†Eight 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 ordinarily requires *†four hours a week.* Work under this course is offered each semester.
Chemistry

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 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 Thorp’s Outlines of Industrial Chemistry. Two hours a week. Fall semester.

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

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. Spring 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; oxidation and reduction. 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. Three hours a week. Fall semester.

32b. Physical Chemistry.—A continuation of course 32a. Two hours a week. Spring 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.

Laboratory fees covering general chemicals, gas, etc., are as follows: Courses 3, 4, 14, 16 and 22: $5. Courses 6, 7, 12, 15 and 18: $3. Courses 9, 13, 25, 26, 28 and each part of 19: $2.

Broken apparatus and special chemicals are paid for at the chemical supply room by use of a "breakage card" obtained from the University Cashier. The portion of this card which has not been used will be redeemed at the end of the semester by the Cashier.

For courses in biological and agricultural chemistry see the description of courses given by the department of Biological and Agricultural Chemistry.

Summer Term

Professor McKee; Associate Professor Easley; Mr. Burghart


2. Elementary Chemistry.—A modification of course 1 arranged for those students who wish to review elementary chemistry before taking the examination for entrance to the University.

3. Methods of Laboratory Manipulation.—†Six hours a week. Given in 1912 and alternate years.

4. Physical Chemistry.—Lectures on selected chapters of the subject touching upon the following phases: molecular structure, the mass law, the theories of solution and their applications, especially
Civil Engineering

along the line of electro-chemistry. *Five times a week.* Given in odd years. Offered in 1911.

5. **Organic Chemistry.**—An elementary course in the subject open to those who have had General Chemistry. *Five times a week.* Given in even years. Not offered in 1911.

6. Laboratory work in general chemistry and in analytic chemistry arranged according to the needs of those attending the summer term.

**CIVIL ENGINEERING**

**Professor Boardman; Professor Brown; Assistant Professor Bean; Mr. Kaulfuss; Mr. Kittredge**

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 nine 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 nine weeks. Fall semester.

2b. **Plotting.**—This course consists chiefly of map drawing from field notes, by the different methods in common use. (Course 2a is prerequisite). *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 in-

183
College of Technology

Instruments, note keeping, etc. The text-book used is Pence and Ketchum’s Surveying Manual. (Course 2a is prerequisite). *Six hours a week. Last six weeks. Spring semester.

3a. Railroad Curves.—The geometry 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. (Course 1a or 1b is prerequisite). Three hours a week. First twelve weeks. Spring semester.

3b. Earthwork.—Recitations and lectures on the various methods of setting slope stakes, and of calculating earthwork. (Course 3a is prerequisite). One hour a week. Fall semester.

4a. Railroad Field Work.—This course consists of practice in running in railroad curves and turnouts. A general application of the theories of course 3a. (Courses 2a and 3a are prerequisite). *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. (Courses 2c, 3a & 4a or Courses 2c and 27 are prerequisite). *Six hours a week. First nine weeks. Fall semester.

4c. Railroad Office Work.—The office work of mapping the notes taken in course 4b, including the calculation of the earth work. (Courses 2b and 4b are prerequisite). *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. (Course 1a or 1b is prerequisite). Two hours a week. 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.
Civil Engineering

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. (Course 1a or 1b is prerequisite). *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. (Course 4b is prerequisite). *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. (Course 9a is prerequisite).

10. **Hydraulics.**—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observation; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. The text-book used is Russell's Hydraulics. *Three hours a week.* Spring semester.

11a. **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 expenses of this course are paid by the students. Required of students taking Option 1. (Course 10 is prerequisite). † *Four hours a week.* Fall semester.

11b. **Hydraulic Field Work.**—A short course similar to course 11a. Required of students taking Option 2. (Course 10 is prerequisite). † *Two 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; reinforced concrete; 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. *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.
(Course 12 is prerequisite). *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. (Course 21 is prerequisite). *Twelve hours a week.* Fall
semester.

15. Designing.—A continuation of course 14. (Course 12 is pre­
requisite). *Six hours a week.* Spring semester.

The development and utilization of water power. The development of
the modern turbine. This course is given by lectures and recitations.
Required of students electing Option 1. (Course 10 is prerequisite).
*Two hours a week.* Fall semester.

17. Hydraulic Engineering.—A continuation of course 16. (Course
11a is prerequisite). *Two hours a week.* Spring 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 inter­
locking; track work and maintenance. Required of students electing
Option 2. (Courses 3b and 4b are prerequisite). *Two hours a week.*
Spring semester.

20. Masonry Construction.—A course including the discussion of
building stone, cements and their tests, mortar, concrete, piles, founda­
tions, pneumatic caissons, open caissons, bridge piers, and abutments.
Civil Engineering

Lectures and recitations. The text-book used is Baker’s Treatise on Masonry 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, 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 is the same as that used in course 10. Two hours a week. Fall semester.

24. RAILROAD ENGINEERING.—A course in railroad design. A map reconnaissance for a railroad about twelve to fifteen miles in length is made, applying the theories of course 25a. The final line is located, profile made, grades established and drainage areas and culverts calculated. The rails, switch points, frogs and ties for a turnout are designed. A railroad yard layout is computed and plotted. Required of students electing Option 2. (Courses 4c and 25a are prerequisite). Six hours a week. Spring semester.

25a. RAILROAD ENGINEERING.—A course discussing the economies of railroad location and operation. The railroad corporation, its rights and limitations; traffic; operating expenses; the locomotive and its work; distance; curves; grades. Required of students electing Option 2. (Course 19 is prerequisite). Three hours a week. Fall semester.

25b. RAILROAD ENGINEERING.—A course of lectures and recitations taking up the work of maintenance and betterments. Required of students electing Option 2. (Course 25a is prerequisite). One hour a week. Spring 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 required of students in mechanical engineering in the fall semester and of students in civil engineering in the spring semester. (Course 20 is prerequisite for spring semester course). The time varies.

27. SIMPLE CURVES AND EARTHWORK.—A lecture course on the theory and practice of simple railroad curves, and on the field and office practice of staking out and computing earthwork. Given to students outside of the department of civil engineering who desire to take courses 4b and 4c. (Courses 1a and 2a are prerequisite). One hour a week. Spring semester.

ELECTRICAL ENGINEERING

Professor Canong; Assistant Professor Childs; Mr. Cheswell

1a. ELEMENTS OF ELECTRICAL ENGINEERING.—This course traces the development of electrical engineering from the practical application of laws studied in physics. The work is taken up by lectures, text-books, 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. † Three 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,
Electrical Engineering

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. *Two 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 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 current generators, involving a knowledge of the fundamental electrical principles of design, the principles of mechanical design, cost of materials and cost of labor, and the use of the student’s judgment to fit particular circumstances and financial conditions. 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.
College of Technology

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, second 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. Seventy-two 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.

10b. 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 juniors in mechanical and chemical engineering. Two hours a week. Spring semester.
Mechanical Engineering

10a. Alternating Current Development and Application.—A required course for seniors in mechanical and chemical engineering which continues the work taken up in course 10b. 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 the operating engineer's point of view. Two hours a week. Fall semester.

11a. Laboratory Work.—For mechanical and chemical engineers. Electrical measurements, and the operating and testing of direct current generators and motors, showing the practical application of the work taken up in courses 10b and 10a, and the work is arranged for the particular needs of the mechanical engineer. This course is open to 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 and chemical engineering. The charge for this course is $3.00. † Four hours a week. Fall semester.

12b. Electrical Transmission and Distribution of Power.—A required course for seniors in option I in civil engineering, taking up the elements of electrical measurements, the generation, transmission, and utilization of power, covering the electrical feature of water power development. Two hours a week. Spring semester.

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.

MATHEMATICS

The courses in this department are described under the College of Arts and Sciences.

MECHANICAL ENGINEERING

Professor Jewett; Assistant Professor Herschel; Mr. Davee; Mr. Carter; Mr. Lekberg; Mr. Blaisdell

1a. Woodworking.—A number of graded exercises in woodworking designed to give the student familiarity with the tools used in modern
woodworking practice, and also teach him to work from dimensioned 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. *Four hours a week. Spring semester.

3. Kinematical 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.


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 semester.

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.
Mechanical Engineering

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.


10. Steam Engineering.—Deals with the fundamental theories of gases and steam, illustrated by problems of practical form. The laws of thermodynamics; laws of gases; characteristic equations for gases; kinds of expansion and compression; Carnot’s cycle; heat quantities in steam; use of the steam tables; steam equations; quality of steam; cal- orimeters; entropy. Required of students in mechanical and electrical engineering. *Two hours a week. Spring semester.

11. Steam Engineering.—Types and details of steam boilers, engines, and auxiliary machinery. A consideration of fuels and the chemistry of combustion; efficiency factors of the steam boiler plant. Heat losses in steam engines; compound steam engines; refrigeration; gas engine cycles and gas producer principles. For electrical engineers, valve gears is included. Required of students in mechanical and electrical engineering. (Course 10 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
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, valve settings, etc. Required of seniors in mechanical engineering. The charge for the course is $3.00. † *Two hours a week.* Spring 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 $3.00. † *Four hours a week.* Spring semester.

16. **Steam Engineering.**—A continuation of courses 10 and 11, dealing with steam engines, steam turbines, air compressors, refrigerating machines, and gas engines. Considerations affecting the design and efficiency of operation of heat motors, and the lay-out of power plants. 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 machine design. A steam engine is partially designed in the drawing room. Required of students in mechanical engineering. *Six hours a week.* Spring semester.

18. **Machine Design.**—A continuation of course 8, including the execution of the design of some typical machines. Required of students in mechanical engineering. *Six hours a week.* Fall semester.


Mechanics and Drawing

21. SEMINARY.—General discussion of leading articles appearing in current engineering literature. Elective. One hour a week. Fall and spring semesters.

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

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

25. STRENGTH OF MATERIALS BY TEST.—A course in the mechanical laboratory for students in civil engineering. The charge for the course is $2.00. Two hours a week. Spring semester.

26. MECHANICAL LABORATORY.—A course of experiments in the laboratory especially arranged to meet the needs of the student in electrical engineering. Required. The charge for the course is $2.00. Three hours a week. Fall semester.

MECHANICS AND DRAWING

Professor Weston; Assistant Professor Grover; Mr. Farnham

1. DRAWING.—Instruction and practice in technical freehand drawing and lettering, in the care of drawing instruments and their use in elementary problems involving right lines, circles, conic sections and orthographic projections. *Six hours a week. Fall semester.

2. DRAWING.—A continued study of the methods of orthographic projection, isometric projection, oblique projection, accompanied by instruction and practice in the making of working drawings and tracings. *Six hours a week. Spring semester.

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 making of working drawings of simple machines together with instruction and practice in making
College of Technology

titles for the same. This is followed by several weeks work in linear perspective and line shading. *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. 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. Drawing.—A course designed specially for students in agriculture and non-engineers. It combines the fundamental principles of Drawing 1, and Drawing 2. *Six hours a week. Fall semester.

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 199.

PHARMACY

Professor Jackman

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

2. Pharmacy.—Pharmacopoeias, dispensatories, etc.; weights and measures; specific gravity; pharmaceutical uses of heat; pharmaceutical
Pharmacy

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.

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. **Pharmacopoeia.**—A complete review of the pharmacopoeia, with special reference to the chemical and pharmaceutical principles involved in tests and preparations. The text-books are Caspari's Pharmacy and the U. S. Pharmacopoeia. *Five hours a week.* Spring 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 textbook is Potter's Materia Medica. *Three hours a week.* Fall semester.

8. **Pharmacy Readings.**—Current pharmacy literature; research and reference readings; abstracting; reports. *Three hours a week.* Spring semester.


10. **Prescriptions.**—Critical examination of prescriptions from actual files, with reference to principles and to physiological, pharmaceutical, and chemical incompatibility; doses; methods and order of compound-
College of Technology

ing, 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 200.

PHYSICS

The courses in this department are described under the College of Arts and Sciences.
REQUwRED COURSES

Work in the departments of Military Science and Tactics and Physical Training is required of all students with certain exceptions noted elsewhere.

MILITARY SCIENCE AND TACTICS

PROFESSOR VARNUM

1. MILITARY, FIRST YEAR'S COURSE.
   (a) PRACTICAL:
       1—U. S. Infantry Drill Regulations, to include the School of the Battalion, Advance and Rear Guards, Outposts, Marches, and Ceremonies.
       2—Infantry Target Practice.
       3—Field Service Regulations.
       4—Guard Duty.
   (b) THEORETICAL:
       1—U. S. Infantry Drill Regulations, to include the School of the Company.
       3—Field Service Regulations.
       4—Small Arms Firing Regulations.

Required of all students, with the exceptions noted elsewhere. Three hours, or the equivalent, a week for the freshman year, counting one-fifth credit.

2. MILITARY, SECOND YEAR'S COURSE.
   (a) PRACTICAL:
       The same as course 1 (a).
Required Courses

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

Required of all students, with the exceptions noted elsewhere. *Three hours, or the equivalent, a week for the sophomore year, counting one-fifth credit.*

3. Military, Third Year’s Course.
   (a) Practical:
   Duties consistent with rank in carrying out (a) in courses 1 and 2.
   (b) Theoretical:
   Assistant instructors over those taking course 1 (b).
   Open to all who have completed course 2. *Three hours, or the equivalent, a week, counting one-fifth 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. *Three hours or the equivalent, a week, counting one-fifth credit.*

PHYSICAL TRAINING

Director Wingard

1. Physical Training.—Class formation and figure marching; setting-up drills; free-arm and calisthenics movements; elementary dumbbell, wand, and apparatus exercises. *One hour lecture and two hours practice.* Fall semester.

2. Physical Training.—Intermediate and advanced class exercises and combination apparatus work. *One hour lecture and two hours practice.* Spring semester.
Experiment Station

THE MAINE AGRICULTURAL EXPERIMENT STATION

THE STATION STAFF

CHARLES DAYTON WOODS, Sc. D.  Director
JAMES MONROE BARTLETT, M. S.  Chemist
WARNER JACKSON MORSE, M. S.  Plant Pathologist
RAYMOND PEARL, Ph. D.  Biologist
OSKAR AUGUSTUS JOHANSEN, Ph. D.  Entomologist
EDITH MARION PATCH, Ph. D.  Associate Entomologist
HERMAN HERBERT HANSON, M. S.  Associate Chemist
CHARLES EDWARD LEWIS, Ph. D.  Associate Plant Pathologist
WALTER WEIDENFELD BONNS, B. S.  Associate Horticulturist
EUGENE PETER HUMBERT, Ph. D.  Associate Biologist
MAYNE ROSE CURTIS, M. A.  Assistant Biologist
ALBERT GUY DURGIN, M. S.  Assistant Chemist
ALVIN KIMBALL BURKE, B. S.  Assistant Chemist
ROYDEN LINDSAY HAMMOND  Seed Analyst and Photographer
ELMER ROBERT TOBIE, B. S.  Inspector
ALBERT VERRILL, B. S.  Inspector
EDGAR ALBERT WHITE  Inspector
BLANCHE FOLSOM POOLER  Clerk and Stenographer
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 8) 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 $51,500; $15,000 of which comes from the Hatch fund; $15,000 from the Adams fund; $15,000 from State appropriations and fees from feeding stuff inspection, fertilizer inspection, food and drug inspection, fungicide and insecticide 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:
Experiment Station

“It shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories.”

The work that the Experiment Station can undertake from the Adams Act fund is more restricted and can “be applied only to paying the necessary expenses of conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories.”

Any resident of Maine concerned in agriculture has the right to apply to the Station for any assistance that comes within its province.

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on page 21. The Station is well equipped in laboratories and apparatus, particularly in the lines of chemical, entomological, horticultural, pomological, vegetable pathological, and poultry investigations. Its poultry plant is probably the most complete of that of any experiment station in the country. It has extensive collections illustrating the botany and entomology of the state. It has a library of about 3,000 volumes, chiefly agricultural and biological journals, and publications of the various experiment stations.

HIGHMOOR FARM

The State Legislature of 1909 purchased a farm upon which the Maine Agricultural Experiment Station “shall conduct scientific investigations in orcharding, corn and other farm crops.” The farm is situated in the
Experiment Station

counties of Kennebec and Androscoggin and largely in the town of Monmouth. It is on the Farmington Branch of the Maine Central Railroad, two miles from Leeds Junction. A flag station, “Highmoor,” is on the farm.

The farm contains 225 acres, about 200 of which are in orchards, fields and pastures. There are in the neighborhood of 3,000 apple trees upon the place which have been set from 10 to 20 years. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar general farm crops. The house is two-story with a large wing and contains about 15 rooms. It is well arranged for the Experiment Station offices and for the home of the farm superintendent. The barn is large, affording storage for hay and grain. The basement, which was formerly used for cattle, offers storage for apples, potatoes and roots.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroughly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, orchard and field experiments, poultry investigations, and entomological research. Some of these are in cooperation with bureaus of the United States Department of Agriculture.

INSPECTIONS

The inspection of agricultural seeds, the inspection of concentrated feeding stuffs, the inspection of food and drugs, the inspection of fungicides and insecticides, 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 inspections is borne by a state appropriation, and by fees.

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.

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.
THE SUMMER TERM

The summer term of the University of Maine is not a summer school, but so far as 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 work in arrears. A student should be able to make one credit (the equivalent of a five hours' subject 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 1911 courses were offered in the following subjects: Agriculture, Botany, Chemistry, Domestic Science, Education, English, French, German, History, Horticulture, Latin, Mathematics, and Physics. These courses are described in connection with the courses offered at the University during the remainder of the year.
Summer Term

Lectures 1911.

Professor G. D. Chase, Names
Doctor J. C. Hockenberry, A New Experiment in Education
Professor W. P. Daggett Reading of Old Heidelberg
Professor L. E. Woodman, An Experimental Lecture in Physics
M. and Mme. E. L. Raiche, Reading of Perrichon
President R. J. Aley, The Recent Meeting of the National Education Association

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 45,000 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—

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
Summer Term

benefits of the agency without paying the usual registration fee. Fre­quent 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 for a registration of fifteen hours a week, 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, $30.00 for the term. The charge for room alone is $1.00 per week, and for board alone $4.00 per week. Men should bring sheets, pillow cases, and towels.

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 the president, or any of the 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 1911. Unim­portant changes are likely to be made for the coming term.

208
ALUMNI ASSOCIATIONS

These associations have been organized for the purpose of extending the influence of the University, and keeping alive its spirit in various sections of the country. They have rendered efficient service in promoting the interests of the University.

THE GENERAL ASSOCIATION

President, C. W. Mullen, ’83, Bangor
Vice-President, E. F. Hitchings, ’75, Orono
Recording Secretary, F. L. Russell, ’85, Orono
Corresponding Secretary, R. K. Jones, ’86, Orono
Treasurer, J. A. Gannett, ’08, Orono
Necrologist, J. N. Hart, ’85, Orono

ADVISORY COUNCIL

MEMBERS AT LARGE
Albert H. Brown, B. S. 1880, Old Town, Maine............... 1912
George H. Hamlin, C. E., 1873, Orono, Maine.................. 1912
Louis C. Southard, M. S., LL. D., 1875, Boston, Mass......... 1913
Charles E. Oak, M. E., 1876, Bangor, Maine................... 1913
Perley B. Palmer, B. C. E., 1896, Orono, Maine................. 1914
Jeremiah S. Ferguson, M. S., M. D., 1889, New York City...... 1914
Charles S. Bickford, B. S., 1882, Belfast, Maine.............. 1915
George E. Thompson, B. C. E., 1891, Bangor, Maine.......... 1915
Edward H. Kelley, B. S., 1890, Bangor Maine .................. 1916
C. Parker Crowell, B. M. E., 1898, Bangor, Maine............. 1916

Representing the College of Agriculture

209
Alumni Associations

Representing the College of Arts and Sciences
DeForest H. Perkins, M. A., LL. B., 1900, Portland, Maine...... 1912

Representing the College of Law
Frank D. Fenderson, LL. B., 1899 Law, Limerick, Maine......... 1916

Representing the College of Technology
George F. Black, C. E., 1886, Portland, Maine..................... 1913

The West Maine Association
President, S. W. Bates, '75, Portland
Secretary and Treasurer, S. E. Patrick, '03, Gorham

The Boston Association
President, S. P. Graves, '03, 30 Court St., Boston, Mass.
Vice-President, F. O. Stevens, '06, 075 Commercial St., East Weymouth, Mass.
Secretary and Treasurer, H. E. Statton, '09, 319 Washington St., Boston, Mass.

The New York Association
President, L. W. Riggs, '85, Cumberland, Maine
Vice-President, C. P. Gray, '00, 29 West 46th St., New York City
Secretary and Treasurer, A. W. Stephens, '99, 8 Birchwood Ave., East Orange, N. J.

The Western Association
President, Wallace E. Belcher, '09, 202 So. La Salle St., Chicago, Ill.
Vice-President, Carlos Dorticos, '03, 1038 Monadnock Block, Chicago, Ill.
Secretary and Treasurer, Arnold W. Totman, '07, care University Club, Chicago, Ill.
Executive Committee, William Webber, '84, J. A. McDermont, '05, C. C. Whittier, '09, M. C. Wiley, '03, F. L. Douglass, '03

The Washington (D. C.) Association
President, P. L. Ricker, '00, U. S. Dept. Ag.
Secretary and Treasurer, H. P. Gould, '93, U. S. Dept. Ag.

210
Alumni Associations

**THE PENOBSCOT ASSOCIATION**
President, W. B. Pierce, '90, Bangor
Vice-President, Dr. W. A. Bumps, '75, Dexter
Secretary and Treasurer, J. H. McClure, '05, Bangor
H. S. Boardman, '95

**THE PITTSBURG ASSOCIATION**
Secretary and Treasurer, B. F. Faunce, '01, Pittsburg, Pa.
Executive Committee, C. D. Smith, '05, H. E. Cole, '02, J. G. Scales, '10

**THE SCHENECTADY ASSOCIATION**
President, J. G. Lurvey, '00, 1206 State St.
Vice-President, C. N. Rackliffe, '02, 1206 State St.
Secretary, H. E. Duren, '02, 306 Lafayette St.
Treasurer, H. F. Hoxie, '99, 940 State St.
H. E. Duren, '02

**THE KENNEBEC VALLEY ASSOCIATION**
President, Harold E. Cook, '00, Waterville
Secretary, Ernest C. Butler, '01, Skowhegan
Treasurer, Samuel J. Foster, '03, Oakland
H. E. Cook, '00

**THE COLLEGE OF LAW ALUMNI ASSOCIATION**
President, F. D. Fenderson, '99, Limerick
Vice-President, Freeland Jones, '00, Bangor
Corresponding Secretary, G. H. Worster, '05, Bangor
Financial Secretary, N. V. MacLean, '05, Bangor
Treasurer, B. W. Blanchard, '04, Bangor
COMMENCEMENT

The Commencement Exercises of 1911 were as follows:
Saturday, June 10: Phi Kappa Phi Initiation and Banquet, 7.00 p. m.
Sunday, June 11: Baccalaureate Address by President Robert Judson Aley, LL. D., of Orono.
Monday, June 12: Class Day Exercises: President's Reception.
Tuesday, June 13: Commencement Dinner: Meeting of Law Alumni; Fraternity Receptions; Alumni Lunch; Alumnae Lunch; Meeting of the General Alumni Association; Fraternity Reunions.
Wednesday, June 14: Commencement Address, by President David Nelson Beach, D. D., of Bangor; Announcement of Honors; Confering of Degrees; Commencement Ball.

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

Bachelor of Science in Agriculture
Charles Calvin Cleveland ....................................Skowhegan
George Haley ......................................................Brownville
Russell Smith ......................................................Auburn
George Jacob Wentworth .....................................Kennebunk Beach

Bachelor of Science in Forestry
George Dunham Bearce ........................................Auburn
John Nelson Jewett .............................................Cherryfield
Wentworth Peckham ............................................Lewiston
Niles Cassius Pinkham .........................................Portland
Harold Grinnell Wood .........................................Hallowell

212
Degrees Conferred

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS IN ECONOMICS
Raymond Webber Davis ...................................................... Guilford
Everett Heseltine Maxcy ...................................................... Gardiner
Herbert Wilfred Pickup ...................................................... Ipswich, Mass.
Nelson Ned Scales .............................................................. Guilford
Sumner Waite ................................................................. Portland

BACHELOR OF ARTS IN ENGLISH
Louise Frances Hall ............................................................. Belfast
Margaret Ellen McManus .................................................... Bangor
Hayward Stanley Thomas ................................................... Milo

BACHELOR OF ARTS IN GERMAN
Charles Harold Grant ........................................................... Bangor
Mildred Louise Prentiss ...................................................... Brewer

BACHELOR OF ARTS IN HISTORY
Florence Evelyn Brown ...................................................... Old Town
Irene Cousins ................................................................. Old Town
Benjamin Otis Warren ....................................................... Fryeburg

BACHELOR OF ARTS IN LATIN
Letitia Elizabeth Day ........................................................... Brewer
Annie Hoadley Gilbert ......................................................... Old Orchard

BACHELOR OF ARTS IN MATHEMATICS
Florence Anna Taylor ........................................................ Hermon

BACHELOR OF ARTS IN PHYSICS
Ralph Maynard Holmes .................................................... Ellsworth
George Everett LaMarche .................................................. Hartford, Conn.

BACHELOR OF ARTS IN ROMANCE LANGUAGES
Chester Squire Phinney .................................................... Pawtucket, R. I.

BACHELOR OF SCIENCE IN BIOLOGY
George Clark Leavitt ......................................................... Norway
Degrees Conferred

Bachelor of Science in Economics
James Leigh Dinsmore .................................................Hallowell

Bachelor of Science in Mathematics
Alfred Sanford Adams.................................................Newport

College of Law
Bachelor of Laws
Albert Beliveau..........................................................Rumford
William Bradley Blaisdell.............................................North Sullivan
Collen Carroll Campbell.............................................Provincetown, Mass.
Rodney Walker Carter.................................................Bluehill
Franklin Russell Chesley.............................................Saco
Wilfred Grindle Conary..............................................Bluehill Falls
George Leroy Connors..............................................North Attleboro, Mass.
James Albert Connors...............................................Boston, Mass.
Daniel Israel Gould....................................................Bangor
Brad Dudley Harvey....................................................Haverhill, Mass.
Charles Bridgham Hosmer..........................................Hudson, Mass.
John Edmund Liggett...................................................Augusta
John Bernard Madore, B. A. (Van Buren College, 1908)......Van Buren
Wilbur Frances Merrill...............................................Wiscasset
William Daniel Owens...............................................Lynn, Mass.
Aaron Albert Putnam, B. A. (Bowdoin College, 1908)........Houlton
George Roy Sweetser, B. A. (University of Maine, 1909).....Bangor
Jacob Kevork Tertzag, B. A. (Euphrates College, 1902),
Mamouret-ul-Aziz, Armenia
Henry Harrison Varney..............................................East Rochester, N. H.

College of Technology
Bachelor of Science in Chemical Engineering
William Edgar Bartow.................................................Utica, N. Y.
William Oleson Haskell..............................................Westbrook
Fred Warner Nason....................................................Haverhill, Mass.
Clifford Patch..........................................................Bangor
Degrees Conferred

Albert Verrill........................................................ ..Westbrook
Earle Ovando Whittier.............................................Farmington

BACHELOR OF SCIENCE IN CHEMISTRY

Albert Davis Conley.................................................Woodfords
Louis Duncan Tallman Geery...................................Katahdin Iron Works
Freeland John Morrison........................................Bangor

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Eben Robert Barton..............................................Palmer, Mass
Alfred Michel Blanchard..........................................Southbridge, Mass.
Raymond Wilbur Buck...........................................Monticello
Harold Brainerd Burgess..........................................Rockland
Parker Messer Cooper............................................Jefferson
William Parsons Cushman.....................................West Pownal
Raymond Earle Davis...........................................Orono
Frank Holliday Derby............................................Orono
Olaf Windsor Dwinal............................................Auburn
Leroy Allan Fitch...............................................East Sebago
Charles Samuel Gerrish........................................Kittery Point
Dunton Hamlin....................................................Orono
Ashton Halsted Hart..............................................Presque Isle
William Hilton....................................................Greenville
Harry Homans.....................................................North Vassalboro
Irvin Frothingham Hooper......................................Lynn, Mass.
George Henry Howe, Jr.............................................Caribou
Harold William Ingham..........................................Haverhill, Mass.
Sidney Morrison Jones...........................................Bangor
Arthur Joseph Leary..............................................Somersworth, N. H.
George Lester Lord...............................................South Berwick
Cecil Leland Lycette.............................................Houlton
James Raymond Merrell.........................................Bangor
Donald Prescott Oak.............................................Bangor
Ralph Edwin Patterson..........................................Bangor
Dana Newton Peaslee.............................................Lynn, Mass.
George Alfred Phillips..........................................Westbrook
Charles Drummond Rea..........................................Southwest Harbor
Harl Lowell Russell..............................................Dexter
Harold Rodolph Sargent.........................................Sedgwick
Degrees Conferred

Frank Sleeper Sawyer...........................................Sabbattus
Philip Stanwood Strout........................................South Portland
Merton Rogers Sumner.........................................South Paris
Benjamin Burbank Whitney.................................Strong
Winthrop Field Wilson.........................................Portland

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
Albert Samuel Atwood........................................Phillips
Guy Marble Blaisdell..........................................Farmington
Frederick Lincoln Chenery, Jr.............................Wayne
Ralph Roscoe Day..............................................Cornish
Jasper Willard Everett.........................................Norway
Delton Wharff Folley.........................................Sangerville
George Washington Gifford...............................Dennysville
Alexander Willard Goodwin..............................Vanceboro
Ralph Harrison Greenwood...............................Presque Isle
Hiram Elmer Harris............................................West Minot
Roy Chandler Jones.........................................Gardiner
Lewis Albert Keen..............................................South Paris
James Putnam King..............................................Peabody, Mass.
Ernest Roy Kingsley..........................................Yarmouthville
LeRoy Morse LeBaron......................................West Wareham, Mass.
Dimon Emery Merrill.........................................Alfred
Cyrus William Murphy, Jr.................................West Kennebunk
John Tyler Robinson.........................................Sherman Station
Elmer Allen Sisson........................................South Middleboro, Mass.
Nelson Ernest Smith........................................Peabody, Mass.
Harry Whitman Vickery.....................................East Auburn

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING
Albert Holt Blaisdell.........................................Bangor
Samuel Wadsworth Clemons..............................Hiram
Avery Carleton Hammond................................Orono
William Warren Hatch......................................Brooklyn, N. Y.
George King Jordan ........................................Westbrook
Charles Joseph Pinkham...................................Farmington
Philip Perry Sawtelle........................................Augusta
Charles Edwin Stickney......................................Portland
George Newton Varrey.......................................East Rochester, N. H.
Degrees Conferred

Ernest Thaxter Walker.................................................Biddeford
John Newton Warren....................................................Orono

PHARMACEUTICAL CHEMIST
Harold Webster Bowdoin..............................................Kennebunk
Russell Carlton Butts....................................................Kingfield
Ellwyn Mortimer Fulton...............................................Blaine
Carlton Hutchins........................................................Blaine
Clayton Harvey Steele..................................................West Jonesport

BACHELOR OF SCIENCE IN PHARMACY
Elmer Robert Tobey.....................................................Norridgewock

ADVANCED DEGREES

HONORARY
Charles Lothrop Parsons, Sc. D.................................Durham, N. H.

IN COURSE

MASTER OF SCIENCE IN AGRICULTURE
Frederick Charles Bradford, B. S. (Harvard University, 1908)........Orono

MASTER OF ARTS IN CHEMISTRY
Lloyd Meeks Burghart, B. A. (Lake Forest College, 1906)........Oro

MASTER OF ARTS IN ENGLISH
Addison Benjamin Lorimer, B. A. (Colby College, 1888)........Bangor

MASTER OF SCIENCE IN CHEMISTRY
Bertrand French Brann, B. S. (University of Maine, 1909)........Bangor
Edward Henry Smith, B. S. (University of Maine, 1900)
.................Attleboro, Mass.

MASTER OF SCIENCE IN MATHEMATICS
Charles Liguori Graham, B. S. (University of Maine, 1910)
Brooklyn, N. Y.
Gladys Emma Kavanah, B. S. (University of Maine, 1910)........Bangor
Walter Edmund Wilbur, B. S. (University of Maine, 1908).......Pembroke
Degrees Conferred

MASTER OF LAWS

Astor Elmassian, LL. B. (University of Maine, 1910) .... Lynn, Mass.

PROFESSIONAL DEGREES

CIVIL ENGINEER

Curtis Eames Abbott, B. S. (University of Maine, 1905) .... Chicago, Ill.
Elmer Guy Hooper, B. S. (University of Maine, 1907) .... St. Louis, Mo.
Heber Penn Purington, B. S. (University of Maine, 1907) .... Manila, P. I.
Robert Kent Steward, B. S. (University of Maine, 1908) .... Urbana, Ill.

CERTIFICATES IN THE SCHOOL COURSE IN AGRICULTURE

Earle Harlow Beckler ........................................ Livermore Falls
John Dean .......................................................... Biddeford
Alfred Camden Hall ........................................... Biddeford
Maurice Arland Peabody ........................................ Exeter
Perley Louville Pingree ....................................... Denmark
Seavey Allan Piper ............................................... Troy
Harry Bradford Wadsworth .................................. Cornish
Melvin Foster Wilbur ......................................... Pembroke

CERTIFICATE IN THE TEACHER'S COURSE IN AGRICULTURE

Ralph Pike Mitchell ............................................. West Newfield

PRIZES AWARDED

Kidder Scholarship, Richard Anderson Power, Portland.
Western Alumni Association Scholarship, Eroln Victor Crimmin, Winterport.
Junior Exhibition Prize, Philip Garland, Old Town.
Sophomore Declamation Prize, Forest Bertram Ames, Bangor.
Franklin Danforth Prize, Russell Smith, Auburn.
Pittsburg Alumni Association Scholarship, Maynard Sumner Gould, Camden.
Kennebec County Prize, Nelson Ernest Smith, Peabody, Mass.
Walter Balentine Prize, Luther Sampson Russell, Orono.
The Wingard Cup, Luther Barker Rogers, Patten.
Gilbert M. Gowell Scholarships, Neil Carpenter Sherwood, Cherryfield, and John Walter Hart, Holden.

The highest standing obtained by a member of the class of 1911 for the four years course was made by Dunton Hamlin, Orono.

218
Prizes Awarded

The Class of 1908 Commencement Cup, which is awarded each year to the class having the largest percentage of its membership back for Commencement, was won in 1909 by the classes of 1872 and 1873, both having the same per cent back, and in 1910 the cup was won by the class of 1875. In 1911 it was won by the class of 1875.

The cup presented by the Senior Skulls to that Fraternity which has during the year maintained the highest average in scholarship was awarded in 1911 to Alpha Tau Omega.

MEMBERS OF THE PHI KAPPA PHI

Alfred Michel Blanchard, Southbridge, Mass.; Florence Evelyn Brown, Oldtown; Letitia Elizabeth Day, Brewer; Annie Hoadley Gilbert, Old Orchard; Louise Frances Hall, Belfast; Dunton Hamlin, Orono; Charles Bridgham Hosmer, Hudson, Mass.; Lewis Albert Keen, South Paris; Horace Newton Lee, Greenwood, Mass.; Mildred Louise Prentiss, Brewer; George Ray Sweetser, Bangor; Earle Ovando Whittier, Farmington.

SENIORS RECEIVING GENERAL HONORS

Alfred Michel Blanchard, Southbridge, Mass.; Florence Evelyn Brown, Oldtown; Frederick William Chenery, Wayne; Letitia Elizabeth Day, Brewer; Annie Hoadley Gilbert, Old Orchard; Louise Frances Hall, Belfast; Dunton Hamlin, Orono; Lewis Albert Keen, South Paris; Horace Newton Lee, Greenwood, Mass.; Cecil Leland Lycette, Houlton; Mildred Louise Prentiss, Brewer; Florence Anna Taylor, Hermon, Elmer Robert Tobey, Norridgewock; Benjamin Otis Warren, Fryeburg; Earle Ovando Whittier, Farmington.

FROM THE COLLEGE OF LAW


SPECIAL HONORS


TO BE REPORTED TO ADJUTANT GENERAL U. S. ARMY FOR PUBLICATION IN THE U. S. ARMY REGISTER AND TO THE ADJUTANT GENERAL STATE OF MAINE

Sumner Waite, Portland.
Appointments

APPOINTMENTS

Speakers at the Junior Exhibition, June 7, 1911
Helen Willard Averill, Milltown; Philip Carland, Old Town; Warren McDonald, Portland; Helen Charlotte Worster, Bangor.

Speakers at the Sophomore Prize Declamation Contest, Dec. 9, 1910
Forest Bertram Ames, Bangor; Oscar Henry Davis, North Berwick; Alice Josephine Harvey, Bangor; John Walter Hart, Holden; William Joseph McCarthy, Lewiston; Donald Wing Sawtelle, Orono; Glenwood Coding Tilley, Ashland; Antoinette Webb, Bangor.

Members of Phi Kappa Phi
Alfred Michel Blanchard, Southbridge, Mass.; Florence Evelyn Brown, Old Town; Franklin Russell Chesley, Saco; Letitia Elizabeth Day, Brewer; Annie Hoadley Gilbert, Old Orchard; Louise Francis Hall, Belfast; Dunton Hamlin, Orono; Charles Bridgham Hosmer, Hudson, Mass.; Lewis Albert Keen, South Paris; Horace Newton Lee, Greenwood, Mass.; Mildred Louise Prentiss, Brewer; Earle Ovando Whittier, Farmington.

General Honors
Alfred Michel Blanchard, Southbridge, Mass.; Florence Evelyn Brown, Old Town; Frederick Lincoln Chenery, Jr., Wayne; Letitia Elizabeth Day, Brewer; Annie Hoadley Gilbert, Old Orchard; Louise Frances Hall, Belfast; Dunton Hamlin, Orono; Charles Bridgham Hosmer, Hudson, Mass.; Lewis Albert Keen, South Paris; Horace Newton Lee, Greenwood, Mass.; Cecil Leland Lycette, Houlton; Mildred Louise Prentiss, Brewer; George Roy Sweetser, Bangor; Florence Anna Taylor, Hermon; Elmer Herbert Tobey, Norridgewock; Benjamin Otis Warren, Fryeburg; Earle Evando Whittier, Farmington.

Special Honors

Honors in the College of Law

To be Reported to Adjutant General U. S. Army for Publication in the U. S. Army Register and to the Adjutant General, State of Maine.
Sumner Waite, Portland, Maine.
CATALOG OF STUDENTS


GRADUATE STUDENTS

Burke, Alvin Kimball, B. S., Ch.  
University of Maine, 1910  
Kennebunk

Buswell, Arthur Moses, B. A., Ch.  
University of Minnesota, 1910  
Orono

Chambers, Sherman Daniel, B. S.,  
M. S., Ce.  
Baldwin University, 1904  
Orono

Drew, Ernest Claude, B. S., Ps.  
University of Vermont, 1909  
Poultney, Vt.

Dykstra, John Richard, B. S., Ed.  
New York University  
Bangor

Hamlin, Truman Leigh, M. A. Ms.  
Western Reserve University, 1899  
Stillwater

McManus, Margaret Ellen, B. A.,  
Eh.  
University of Maine, 1911.  
Bangor

Reed, Lowell Jacob, B. S., Ms.  
University of Maine, 1907  
Orono

Schoppe, William Freeman, B. S.,  
Ag.  
University of Maine, 1907  
Orono
<table>
<thead>
<tr>
<th>Name</th>
<th>College</th>
<th>Address</th>
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<tbody>
<tr>
<td>Trickey, Harold Albert Mariner</td>
<td>Bates College, 1901</td>
<td>Bangor</td>
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<td>Whittier, Earle Ovando, B. S., Ch.</td>
<td>University of Maine, 1911</td>
<td>Orono College St.</td>
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<td>Wilbur, Walter Edmund, B. S., M. S., Ms.</td>
<td>University of Maine, 1908, 1911</td>
<td>Orono 86 Main St.</td>
</tr>
</tbody>
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**SENIORS**

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<th>Name</th>
<th>Location</th>
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<tr>
<td>Ash, John Emmons, Ee.</td>
<td>Bar Harbor</td>
<td>Θ E House</td>
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<td>Averill, Helen Willard, Ch.</td>
<td>Milltown</td>
<td>Mt. Vernon House</td>
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<td>Ayer, Elmore, Me.</td>
<td>Dorchester, Mass.</td>
<td>Α Τ Ω House</td>
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<td>Ballou, William Rice, Ec.</td>
<td>Bath</td>
<td>Φ Γ Δ House</td>
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<td>Barber, Clarence Wallace, Ag.</td>
<td>Yarmouth</td>
<td>Campus</td>
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<td>Bartlett, Emily Mary, Bl.</td>
<td>Orono</td>
<td>College St.</td>
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<td>Benjamin, Charles Smith, Ch.</td>
<td>Old Town</td>
<td>Σ Χ House</td>
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<td>Burden, Harry Poole, Ce.</td>
<td>Lynn, Mass.</td>
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<td>Buzzell, Robert Loring, Ec.</td>
<td>Old Town</td>
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<td>Carleton, Edward Frazier, Rm.</td>
<td>So. Groveland, Mass.</td>
<td>Δ K House</td>
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<tr>
<td>Cavanaugh, Charles Alton, Ag.</td>
<td>Portland</td>
<td>107 Oak Hall</td>
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<td>Center, Irving Emory, Me.</td>
<td>Kingston, Mass.</td>
<td>Δ K House</td>
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<td>Chase, Alden, Ee.</td>
<td>Bryant's Pond</td>
<td>Θ Χ House</td>
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<td>Clapp, Alma Eliza, Ms.</td>
<td>Brewer</td>
<td>Brewer</td>
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<td>Cleaves, Carl Schurz, Ce.</td>
<td>Bar Harbor</td>
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<td>Cleaves, Charles Brown, Ee.</td>
<td>Portland</td>
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<td>Coffin, Celia May, Eh.</td>
<td>Bangor</td>
<td>Mt. Vernon House</td>
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<td>Cronin, John Patrick, Ce.</td>
<td>Worcester, Mass.</td>
<td>Δ Τ Δ House</td>
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<td>Crosby, Harry Lawrence, Ce.</td>
<td>Portland</td>
<td>Κ Σ House</td>
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<td>Cummings, Nathan Clifford, Ee.</td>
<td>Gorham</td>
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<td>Darrell, Franklin Lloyd, Ce.</td>
<td>Brooklyn, N. Y.</td>
<td>Β Θ Π House</td>
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<td>Deering, Arthur Lowell, Ag.</td>
<td>Bridgton</td>
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<td>Dunlap, Clarence, Ag.</td>
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<td>Main St.</td>
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<td>Duran, David Ray, Ce.</td>
<td>Westbrook</td>
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<td>Dyer, Samuel, Ce.</td>
<td>Attleboro, Mass.</td>
<td>Δ Κ House</td>
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<td>Eastman, Henry Harlan, Ce.</td>
<td>Limerick</td>
<td>Α Τ Ω House</td>
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<td>Emerson, Walter Bradbury, Me.</td>
<td>Biddeford</td>
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<td>Estabrooke, Carl Bertrand, Eh.</td>
<td>Orono</td>
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<tr>
<td>Estabrooke, Marion Corthell, Ds.</td>
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<td>Faulkner, Harold Clark, Me.</td>
<td>Lynn, Mass.</td>
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<tr>
<td>Fish, Fred Enoch, Ps.</td>
<td>Farmington</td>
<td>Δ K House</td>
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Catalog of Students

Fisher, Herbert Leir, Ce.
Flint, Margaret, Pl.
Garland, Philip, Me.
George, Clifford Henry, Ee.
Gerrish, Leo Melville, Ee.
Cordon, Robert James, Ee.
Gould, Maynard Sumner, Ee.
Gray, William Melvin, Ht.
Haskell, Benjamin, Ee.
Hatch, Harrison Morton, Ag.
Hебard, William Everett, Ps.
Hopkinson, Ralph Stimson, Ee.
Hosmer, George Lawrence, Me.
Houghton, Lloyd Everett, Fy.
Hussey, Philip Rodney, Fy.
Hussey, Robert Eliott, Ch.
Jackson, James Foster, Ee.
Jacobs, Lester Warner, Ce.
Jones, Austin Whittier, Ag.
Jones, Fred Ruel, Ag.
Jones, Lillian Curtis, Ms.
Jones, Maurice Daniel, Ag.
Kelley, Margaret June, Gm.
Kent, Benjamin Calvin, Me.
King, George Edward, Jr., Ce.
Lancaster, Frank Hodgkins, Ce.
Lilly, Walter Harrison, Ce.
Macdonald, Roger Winchester, Ce.
McDonald, Warren, Ce.
McKeen, Ellis Wyman, Ht.
Mariner, Hazel Folsom, Eh.
Merrill, Ruth, Hy.
Miller, William James Henry, Fy.
Mountfort, Oscar William, Ce.
Mullins, William, Ec.
Murray, Walter Edward, Ee.
Newell, Charles William, Ee.
Nickels, Albert Mortimer, Me.
Nucci, James Francis, Rm.
Osborne, Atlee Burpee, Ce.
Parker, George Leavitt, An.

Charlotte           A T Omega House
West Baldwin       Mt. Vernon House
Old Town           Phi Gamma House
East Orrington     Phi Gamma House
Berlin, N. H.      Sigma Alpha Eta House
Bangor             Bangor
Camden             Phi Nu Kappa House
Bucksport, R. D. 1  Phi Kappa Sigma House
Westbrook          Phi Gamma House
West Groton        Theta Xi House
Southbridge, Mass. 112 Phi Pi Hall
Saco               Beta Theta Pi House
Rockland           Alpha Tau Omega House
Lee                Phi Kappa Sigma House
Patten             Phi Kappa Sigma House
Portland           Phi Nu Kappa House
Jefferson          Sigma Alpha Eta House
Rockland, Mass.    Theta Epsilon House
Bangor             Kappa Sigma House
 Mercer            Forest St.
Bangor             Bangor
Unity              Park St.
Bangor             Mt. Vernon House
Stillwater         Theta Epsilon House
Bethel             Theta Xi House
Presque Isle       Phi Nu Kappa House
Woolwich           Sigma Xi House
Pembury, Mass.     Theta Xi House
Woodfords          Phi Gamma House
Fryeburg           Beta Theta Pi House
Milford            Milford
Auburn             100 Main St.
South Berwick      Phi Nu Kappa House
Nashua, N. H.      Phi Kappa Sigma House
Cambridge, Mass.   Theta Xi House
Lynn, Mass.        Theta Xi House
Houlton            Phi Kappa Sigma House
Cherryfield        Sigma Alpha Eta House
Orono              Pine St.
Ft. Fairfield      Theta Epsilon House
Skowhegan          Alpha Tau Omega House
# Catalog of Students

Parker, William Emery, Ee.  
Perrins, Walter Ezra, Ce.  
Pinkham, Seymour Leroy, Ee.  
Poole, James Plummer, Fy.  
Rand, Lynne Thomas, Ce.  
Reed, Robert Clifford Henry, Ee.  
Rogers, Luther Barker  
Rowe, Charles Winfield, Ag.  
Russell, Luther Sampson, Ag.  
Sawyer, Edward Eugene, Ch.  
Schrumpf, William Ernest, Ag.  
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.  
Thompson, Harry Ernest, Ee.  
Thompson, Lynwood Burkett, Fy.  
Washburn, Dana Peabody, Ec.  
White, Marjorie Adelle, Lt.  
Winchester, Frank William, Ce.  
Witham, Walter Remick, Ce.  
Woodberry, George Roundy, Ec.  
Woodman, Carrie Luella, Ms.  
Woodward, Karl Douglas, Ch.  
Worster, Helen Charlotte, Eh.  

<table>
<thead>
<tr>
<th>Location</th>
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<tr>
<td>Harrington</td>
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<td>Portland</td>
<td>Φ H K House</td>
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<td>Gloucester, Mass.</td>
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<tr>
<td>Unity</td>
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<tr>
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<td>Φ H K House</td>
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<tr>
<td>Patten</td>
<td>K Σ House</td>
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<tr>
<td>South Paris</td>
<td>Campus</td>
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<tr>
<td>Orono</td>
<td>Campus</td>
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<tr>
<td>East Wareham, Mass.</td>
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<td>Old Town</td>
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<tr>
<td>Farmington</td>
<td>Δ T Δ House</td>
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<tr>
<td>Skowhegan</td>
<td>Φ Γ Δ House</td>
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<tr>
<td>Old Town</td>
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<tr>
<td>'West Peabody, Mass.</td>
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<tr>
<td>Springfield, Mass.</td>
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<tr>
<td>Milo</td>
<td>Campus</td>
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<tr>
<td>Gorham, N. H.</td>
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<td>Cumberland Center</td>
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<tr>
<td>Bath</td>
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<td>Belfast</td>
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<td>Calais</td>
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<td>Mt. Vernon House</td>
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<td>Nahant, Mass.</td>
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<td>Madison</td>
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<td>Beverly, Mass.</td>
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<td>Claremont, N. H.</td>
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<tr>
<td>Bangor</td>
<td>Mt. Vernon House</td>
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</table>

## JUNIORS

Ackley, Edward Preble, Ec.  
Amadon, Arthur Franklin, Fy.  
Ames, Forrest Bertram, Eh.  
Annable, Burleigh Ansel, Ce.  
Ayer, Harold Francis, Ag.  
Bigelow, Elson Hartwell, Me.  
Bird, Maurice Cobb, Ag.  
Bolton, Philip Sumner, Ch.  
Bradbury, Ira Miller, Ce.  
Brewer, Warren Grant, Ec.  

<table>
<thead>
<tr>
<th>Location</th>
<th>House</th>
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<tr>
<td>Peaks Island</td>
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<tr>
<td>Boston, Mass.</td>
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<td>Φ H K House</td>
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<td>Lynn, Mass.</td>
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<tr>
<td>Haverhill, Mass.</td>
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<tr>
<td>Bridgton</td>
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<td>Rockland</td>
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<td>Gorham</td>
<td>Coburn Hall</td>
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Catalog of Students

Brown, Henry Leavitt, Ch.
Burgess, Howard, Ee.
Burns, William Hugh, Ed.
Cannon, Arthur Hildreth, Me.
Carleton, John Harvey, Ce.
Chandler, Clifton Edward, Ec.
Chase, Edward Everett
Church, James Elwood, Ch.
Clark, George Clarence, Ms.
Clark, George Freeman, Ce.
Creeden, James Coharn, Ce.
Cronan, Mark Dennis, Ce.
Crossman, Mae Evelyn, Eh.
Davis, Oscar Henry, Me.
Dillingham, Winfield Presbury, Ce.
Dyer, Guy Valentine, Ec.
Finkbeiner, Daniel Talbert, Ce.
Floyd, Raymond, Ce.
Groves, Walter Clyde, Ce.
Haines, Frank Warren, Ee.
Hamlin, George Harold, Ec.
Harriman, Royden Henry, Ee.
Hart, John Walter, Ag.
Harvey, Alice Josephine, Ds.
Higgins, Thomas Carol, Ce.
Hinkley, Harry Wendell, Ce.
Huggins, Leslie Mansfield, Me.
Huntington, Richard Thomas, Eh.
Jackman, Percy Edward, Ht.
Jackson, Raymond Olden, Me.
Jennison, Elwood Whitney, Me.
Jordan, Harry Gilman, Ce.
Kingsbury, Forrest Pearl, Ce.
Knight, Carroll Morse, Ce.
Leonard, Paul Cyprian, Ec.
Littlefield, John Ce.
Long, Roger David, Ht.
Lutts, Carlton Gardiner, Ch.
Mcalary, Allan Francis, Ce.
McCarthy, William Joseph, Ch.
Merrill, Mildred Hastings, Ds.

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<tr>
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<td>University Inn</td>
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<td>Tremont</td>
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<td>Frankfort</td>
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<td>Auburn</td>
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<td>100 Main St.</td>
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</table>
Catalog of Students

Merrill, William Hammond, Ee.
Mitchell, William Johnston, Ce.
Nash, Harold Harlem, Ag.
Nealey, James Barton, Ce.
Norton, Carlos Everett, Ag.
Ober, John Larcom, Ee.
Parsons, John Thomas, Ee.
Pinkham, Robert Arthur, Ee.
Flatt, James Nelson, Ce.
Pope, Merrill Stuart, Ce.
Quarmby, George Henry, Ee.
Richards, Harold Albion, Ee.
Richardson, Carroll Raymond, Ee.
Ricker, Elwyn Tristram, Ce.
Sansome, William, Ht.
Savage, Ernest Thompson, Fy.
Sawtelle, Donald Wing, An.
Seekins, Leon Elroy, Ee.
Shepard, Thomas Dudley, Fy.
Simpson, George Stevens, Ch.
Skolfield, Herbert Nason, Ce.
Small, Nathan Houston, Ec.
Smith, Leon Campbell, Fy.
Smith, Oscar Samuel, Pl.
Stone, Walter Christopher, Ch.
Tabor, James Atwood, Jr., Ch.
Talbot, Ralph Lee, Ec.
Tilley, Glenwood Goding, Ee.
Tuck, Leon Sylvester, Ce.
Wallace, John Clyde, Ce.
Wardwell, Hubert Maurice, Jr., Ms.
Webb, Antoinette Treat, Eh.
Wescott, Clifford Walker, Ag.
Wetherbee, Ralph Wilbur, Ee.
Wilson, Warren LeRoy, Ec.
Woodsum, Edmund Nugent, Me.

Bangor
New Bedford, Mass.
Camden
Bangor
Camden Center
Beverly, Mass.
South Paris
Farmington
Abington, Conn.
East Machias
Portland
Saugus, Mass.
Belfast
Oakland
North Saco
Southbridge, Mass.
Bangor
Orono
Skowhegan
Wellesley Hills, Mass.
Marlboro, Mass.
Brunswick
Belfast
Topsham
Orono
Clinton, Mass.
Corinna
Lewiston
Ashland
Lee
Portland
Newport
Bangor
Patten
Hudson, Mass.
Houlton
Fairfield

Σ Λ Ε House
Δ Κ House
Φ Η Κ House
Bangor
Δ Κ House
Σ Α Ε House
Pine St.
202 H. H. Hall
102 H. H. Hall
Φ Π Δ House
Φ Η Κ House
Κ Σ House
Δ Κ House
202 H. H. Hall
Κ Σ House
Θ Χ House
Bangor
Forest St.
K Σ House
Campus
Oak St.
University Inn
Φ Η Κ House
Φ Η Κ House
Α Τ Ω House
14 Bennoch St.
B Θ Π House
Φ Η Κ House
Mt. Vernon House
Κ Σ House
Φ Γ Δ House
Δ Τ Δ House
111 Oak Hall

SOPHOMORES

Adams, Harold Purington, Ec.

Portland
Bowdoinham
Φ Γ Δ House
Φ Κ Σ House
Catalog of Students

Allen, Charles Francis, Me.
Allen, Clifton Lowery, Ce.
Andrews, Robert Wilbur, Ce.
Anthony, Benjamin Bennett, Fy.
Atwood, Charles Raymond, Fy.
Bartlett, Louise, Lt.
Becan, Philip Hanson, Ce.
Beaupre, Estelle Inez, Rm.
Blanchard, Franklin Roy, Ec.
Boothby, Ralph Hamilton, Ce.
Bray, Paul DeCosta, Ch.
Brown, Joseph Lewis, Ps.
Brown, Lewis John, Ag.
Beck, William Harold, Ce.
Buzzell, Marion, Rm.
Chalmers, Dwight Stillman, Ee.
Chapman, Fred Elton, Ec.
Chase, Charles Arthur, Fy.
Clark, Hermon Richard, Ee.
Clifford, Ernest Alfred, Ce.
Cobb, Harold Vernon, Ec.
Cousins, Mary Longfellow, Lt.
Coyne, Albert Leo, Cc.
Cristy, George Linsley, Ag.
Crowell, Harrison Philip, Ce.
Danforth, Stephen Paul, Eh.
Dearborn, Fred Earle, Ch.
Dinsmore, Harold Lee, Ec.
Dore, Edward Albert, Ee.
Eaton, Arthur Gale, Ee.
Ferguson, Albert Barnett, Pl.
Ferguson, Russell Sweetser, Bl.
Field, Leon Albion, Me.
Foster, David Albert, Ce.
Fowler, Ernest Eugene, Me.
French, Norman Richards, Ps.
Cerrish, Harold Colby, Ec.
Getehell, Edward Leonard, Ee.
Gifford, William Edward, Ce.

Medfield, Mass.
Mt. Vernon
West Pembroke
Wakefield, Mass.
Rumford
Oroko
Saco
Bangor 396 Hammond St., Bangor
Beverly, Mass.
Methuen, Mass.
Portland
Turner
Bar Harbor
Gorham, N. H.
Ansonia, Conn.
Old Town
Albion
Lake Hermon
Sebec Station
Townsend, Mass.
Brunswick
Livermore Falls
Old Town
Providence, R. I.
Belfast
So. Portland
Foxcroft
Pinacook, N. H.
Franklin, Mass.
Bangor
Beverly, Mass.
New York, N. Y.
New York, N. Y.
Biddeford
Ellsworth Falls
Hartford, Conn.
Ft. Fairfield
Haverhill, Mass.
Winslow
Fairfield Ctr.

405 H. H. Hall
University Inn
B Θ Ω House
Σ Χ House
Σ A E House
College St.
No. Main St.
301 H. H. Hall
Σ A E House
Σ X House
B Θ Ω House
Φ H K House
Δ Τ Δ House
201 Oak Hall
Old Town
201 Oak Hall
212 H. H. Hall
Δ Τ Δ House
203 H. H. Hall
A T Ω House
Σ A E House
Old Town
311 Oak Hall
A T Ω House
Θ E House
Θ X House
Main St.
Φ K Σ House
401 H. H. Hall
K Σ House
K Σ House
Σ Σ House
Σ Σ House
Σ A E House
Oak Hall
Σ A E House
Σ Χ House
210 H. H. Hall
Σ A E House
306 H. H. Hall
Catalog of Students

Grace, William Wallace, Ec.
Grant, Charles Ephriam, Ee.
Haggart, Alexander LeRoy, Ce.
Hall, Ernest Melvin, Me.
Hall, Howe Wiggin, Ag.
Hamill, Clarence Thomas, Ch.
Harris, Arthur Newton, Ht.
Harvey, Everett Burton, Eh.
Haskell, Theodore Winthrop, Ec.
Hayes, Alden Burgess, Me.
Hettinger, Frederick Carle, Ch. Eng.
Higgins, Oswald Burnett, Me.
Hobart, Aleene Browne, Eh.
Hudson, James Russell, Ag.
Johnson, William Alonzo, Ee.
Jones, Carrol Clair, Ec.
Jones, Frederic Sawtelle, Ee.
Jones, Linwood Stuart, Ce.
Jordan, Marion Luella, Lt.
Junkins, John Norman, Me.
Kelly, Charles Merrill, Jr., Ee.
Kimball, William Earle, Ce.
King, Albert Lincoln, Fy.
Leavitt, Harry Ralph, Fy.
Lewis, Fred Justin, Ce.
Loftus, Edward Michael, Ch. Eng.
McLauchlan, Leo, Ag.
MacNeil, George Andrew, Ms.
Makanna, Nicholas Philip, Ce.
Martin, Preston Hussey, Ec.
Martinelli, Mario, Ch.
Merrill, Paul Bemoth, Ag.
Mitchell, Thomas Crawford, Ce.
Monohon, Paul Wheeler, Ag.

Wakefield, Mass.  
Winterport  
Franklin, Mass.  
Northeast Harbor  
Rockland  
Woodfords  
Bar Harbor  
Westbrook  
Bangor  
Roslinlade, Mass.  
Sewaren, N. J.  
Milford  
Winthrop  
Bangor  
Solon  
Augusta  
Belfast  
Old Town  
Milford, N. H.  
Ipswich, Mass.  
South Paris  
South Paris  
Portland  
Springfield, Mass.  
Bangor  
Ft. Fairfield  
Faukset, R. I.  
Bangor  
Ft. Fairfield  
Warham, Mass.  
Augusta  
Southbridge, Mass.  
Biddeford, R. F. D. No. 4

* In partial standing.

Wakefield, Mass.  
Winterport  
Franklin, Mass.  
Northeast Harbor  
Rockland  
Woodfords  
Bar Harbor  
Westbrook  
Bangor  
Roslinlade, Mass.  
Sewaren, N. J.  
Milford  
Winthrop  
Bangor  
Solon  
Augusta  
Belfast  
Old Town  
Milford, N. H.  
Ipswich, Mass.  
South Paris  
South Paris  
Portland  
Springfield, Mass.  
Bangor  
Ft. Fairfield  
Faukset, R. I.  
Bangor  
Ft. Fairfield  
Warham, Mass.  
Augusta  
Southbridge, Mass.  
Biddeford, R. F. D. No. 4

* In partial standing.
Catalog of Students

Peaslee, Roy William, Ag.
Pendleton, Mark, Ee.
Perkins, Anna Belle, Rm.
Phelps, Donald Walker, Me.
Phillbrook, Philip Edwin, Me.
Pickard, Wilfred Brown, Ce.
Pierce, Clarence Cheney, Ce.
Pray, John Leslie, Ce.
Pride, Woodbury Freeman, Ce.
Randall, Harry Burnham, Ee.
Rounds, Gerald Arlester, Ce.
St. Ong, Arthur Amos, Rm.
Sherwood, Neil Carpenter, Ag.
Sinkinson, George Edward, Ec.
Smith, Frank Allen, Ag.
Stevens, Roland Earle, Ag.
Stiles, Robert Mark, Ag.
Stinchfield, Ruth, Eh.
Strong, Joseph William, Jr., Ce.
Sturgis, David William, Fy.
Thomas, Philip Webb, Ce.
Towner, Wayland Dean, Fy.
Treat, Gladys Evelyn, Gm.
Trefethen, Henry Porter, Ag.
True, Elmer LaForest, Ag.
Twitchell, Carl Elmer, Me.
Varnum, John Prescott, Ce.
Walker, James Clifford, Ee.
Ward, William Gordan, Ch.
Whitten, Alice Idella, Lt.
Wilder, Max Lincoln, Ce.
Willard, Sherwood Howe, Ee.
Woodwell, Carroll Masters, Ag.
Youngs, Frederick Shaw, Ce.

Randolph
Islesboro
Skowhegan
Robinson
Woodfords
Hopedale, Mass.
Berlin, N. H.
West Eden
Auburn
Milford
Portland
Dover
Cherryfield
Somersworth, N. H.
Jamaica Plain, Mass.
Belfast
Brooks
Danforth
Wilnington, Mass.
Gorham
Portland
Bangor
Monroec, R. F. D.
Waterville
Hope
Patton
Bangor
Portland
Attleboro, Mass.
Belfast
Augusta
Greenfield, Mass.
South Bristol
New York, N. Y.

FRESHMEN

Aageson, Wilbur Cole, Ag.
Adams, James Abraham, Ms.
Albee, Guy Edwin, Ag.
Allen, Charles Stanley, Ce.
Arno, Ivan Winfield, Fy.

Thomaston
Orono
Machias
Augusta
Bethel

Δ T Δ House
B Θ Π House
College St.
No. Main St.
Α Τ Ω House
Θ E House
Θ X House
Θ E House
311 Oak Hall
Milford
Φ H Κ House
Δ T Δ House
Park St.
Σ X House
Θ E House
Α Τ Ω House
Φ H Κ House
Mt. Vernon House
Σ X House
Θ E House
Φ Π A House
Σ X House
Θ X House
Θ X House
110 H. H. Hall
Mt. Vernon House
Σ Α E House
Φ H Κ House
Campus
B Θ Π House

220
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<tr>
<th>Name</th>
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<td>Babb, George Wilford</td>
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<td>Caswell, Lester Woodsum</td>
<td>Limestone</td>
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<td>Cheney, Glenn Rexford</td>
<td>Lincoln</td>
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<td>Clark, Robert Pinkham</td>
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<td>Coffin, Everett</td>
<td>Brunswick</td>
<td>28 No. Main St.</td>
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<td>Coffey, Ralph Thompson</td>
<td>So. Brewer</td>
<td>Basin Mills</td>
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<td>Coombs, Olive Erdine</td>
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<td>Cooper, Harold</td>
<td>Auburn</td>
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<td>Crandall, James Stuart</td>
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<td>407 H. H. Hall</td>
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<td>Creighton, Maynard Joshua</td>
<td>Thomaston</td>
<td>110 H. H. Hall</td>
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<td>Eng.</td>
<td>Hampden</td>
<td>309 H. H. Hall</td>
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<td>Crosby, Carle Byron</td>
<td>Old Town</td>
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<tr>
<td>Davis, Lucretia Almira</td>
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<td>Donahue, Norman Sylvester</td>
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<tr>
<td>Dorsey, Llewellyn Morse</td>
<td>Peabody, Mass.</td>
<td>College St.</td>
</tr>
</tbody>
</table>

* In partial standing.
Catalog of Students

Douglass, Raymond Donald, Ms.
Doyle, Joseph Edward, Fy.
Duffey, Edward Charles, Ch. Eng.
Easson, Ralph Barrows, Ag.
Edminster, Winfred Herbert, Pm.
* Elliott, Park, Ee.
Emmons, Norman Eudell, Ee.
Evans, James Alfred, Ch. Eng.
Eveleth, Edgar Kempton, Ee.
Fish, Harold Mahlon, Ag.
Fletcher, Roland Ezra, Fy.
Fogg, Harry Willard, Fy.
Fogler, Raymond Henry, Ag.
Freese, Frank Drummond, Ec.
George, Daisy Evelyn
Gerhardt, Emma, Ds.
Gerrish, Maurice Sylvester, Ag.
Gilman, Madison Leavitt, Ec.
Glover, John White, Me.
Goldsmith, Chester Hamlin, Ch.
Goodwin, Earl Corson, Ec.
Cowen, John Whittemore, Ag.
Graham, Clyde Lewis, Ee.

Graves, Justin Dwight, Ce.
Graves, Margaret, Ds.
Gray, Ethel Mae, Lt.
Hall, Preston Martin, Ch.
Hamel, Leslie Atkeson, Ag.
Hanly, Elizabeth Fitzgerald, Eh.
Hanson, Ernest Freeman, Ec.
Haskell, Laurence Herbert, Ce.
* Hatch, Frederic Boynton, Ce.
Hayford, Herbert Wilder, Gm.
Hill, William Barlow, Fy.
Hines, Mary Elizabeth Burns, Lt.
Hirst, Charles, Ag.

* In partial standing.
<table>
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<th>Location</th>
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<td>Hodgkins, Laura Pearl</td>
<td>Mt. Vernon House</td>
<td>Calais, R. No. 20</td>
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<td>Damariscotta</td>
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<td>Holyoke, Margaret Lillis</td>
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<td>Moore, Ralph Lee</td>
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<td>Moore, Robert McGreggor</td>
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<td>Morrell, Lester Howe</td>
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<td>Morrell, Lester Howe</td>
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<td>Brewer</td>
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</tbody>
</table>
Catalog of Students

Noyes, Elwood Austin, Ag.
Oak, Malcolm Hayford, Ch. Eng.
* O’Brien, Edward Francis, Ee.
Olson, John Oscar, Me.
Parker, Joseph Batchelder, Ag.
Parks, David Weaver
Patten, Montford Elmer, Fy.
* Perry, Earl Francis, Ag.
Pettey, Willis Thurston, Ag.

Phillbrick, John Harvey, Ag.
Millbrook, Walker Merriam, Ee.
Pierce, Raymond Trussell, Ee.
Pinkham, Lloyd Francis, Ee.
Plummer, Harold Francis, Ag.
Poore, Alice Mildred, Lt.
Popkin, Hyman, Fy.
Pretto, Franklin Edward
Rand, Ernest Abbott, Fy.
Randall, Harry Algeron, Ee.
Randall, James Stuart, Ce.
Redman, William Wason, Ag.
Rhind, Ethel Knowlton, Lt.
Richardson, Edward Clinton, Ag.
* Roberts, George Harley, Ch.
Robinson, Madeline Frances, Rm.
Rowe, Daniel Mannix, Fy.
Russell, Asenath, Ds.
Sawyer, Grace Ruth, Lt.
Sawyer, Leon George, Ee.
Schwey, Abram Ira, Fy.
Searle, Irvin Karsner, Ch.
Shaw, Merle Branard, Ch.
Sheridan, Philip Brimsley, Ee.
Shields, Victor Hopkins, Ch.
Sleeper, Harvey Prescott
Slocum, Paul Frederick, Ce.
Smart, Frances Gertrude
Stewart, Loren Prescott, Ce.

Limestone 211 H. H. Hall
Caribou  B Θ Π House
Lawrence, Mass.  B Θ Π House
Belfast  Δ K House
Bangor  Bangor
Ft. Fairfield 409 H. H. Hall
Carmel, R. No. 3 212 H. H. Hall
Bangor  Bangor
No. Dartmouth, Mass.

Bangor  207 H. H. Hall
Rockport  301 H. H. Hall
Bangor  393 H. H. Hall
Lewiston  Σ Λ E House
Lewiston  409 H. H. Hall
Red Beach  307 H. H. Hall
Mt. Vernon House
Portland  412 H. H. Hall
Orono  6 Peters St.
Portland  Φ Κ Σ House
So. Portland  103 H. H. Hall
Whitman  406 H. H. Hall
Dedham, Mass.  208 H. H. Hall
Bucksport  Mt. Vernon House
Portland  Θ E House
Brownville Junct.  B Θ Π House
Bangor  Bangor
Portland  Δ T Δ House
Orono  Campus
Old Town  Old Town
Bridgton, R. No. 1 312 H. H. Hall
Portland  412 H. H. Hall
Lowell, Mass.  406 H. H. Hall
Orono  Park St.
Salem, Mass.  Θ E House
Vinalhaven  Φ Γ Δ House
Bangor  Φ Κ Σ House
Brooklyn, N. Y.  Bangor
Bangor  203 H. H. Hall
Thorndike

* In partial standing.

233
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<td>Stormann, Howard William</td>
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<td>York, Harry Alfred</td>
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<td>Young, Mildred May</td>
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**SPECIALS**

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<th>Name</th>
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<td>Bagdoyan, Bagsar Manoog</td>
<td>Aintab, Turkey</td>
<td>300 Oak Hall</td>
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<td>Bickford, Everett Sumner</td>
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<td>So. Brewer</td>
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<td>Fy.</td>
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<td>Bangor</td>
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<td>Winterport</td>
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<td>Springvale</td>
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<td>Ferguson, George Ee.</td>
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</table>

* In partial standing.
Catalog of Students

Fi-ke, Raymond Houghton, Fy.
Goodwin, Eugene Wiley, Me.
Gregson, Lawrence Halliwell, Fy.
Guthrie, George Francis, Ce.
Hamill, Robert Elmer, Me.
Heath, Herbert Milton, Jr., Me.
Hewes, Ray Dalma, Ag.
Holway, Charles Josiah, Fy.
Jones, Fred Reuel, Ht.
McLaughlin, Percy Daniel, Ag.
Melincoff, John Henry, Fy.
Murphy, George William, Ce.
Newcomb, Erwin Barrett, Ce.
Redman, Ralph Woodbury, An.
Richardson, Douglass Leffingwell, Ec.
Richardson, Howard Byron, Ce.
Schimmel, Erich, Ch.
Severence, Amanda Bailey, Lt.
Stobie, George James, Ag.
Stone, Irving Orrison, Ce.
Tibbetts, Elsie Dorotha, Eh.
Walters, Philip Harris, Ag.
Weston, Edward Gordon, Ee.
Wildes, Robert Patten, Ag.
Wilson, Roger James, Ee.
York, George James, Hy.

Lincoln
Rockport
Buffalo, N. Y.
Bangor
Augusta
Ashland
Madison
Mercer
Costigan
Lawrence, Mass.
Portland
Cumberland Mills
Orono

THE COLLEGE OF LAW

GRADUATE STUDENTS

Allen, George Herman, B. S. Portland
B. S., University of Maine, 1884
Bass, Frank Lyman, B. A., LL. B. Bangor
Bowdoin College, 1907. University of Maine, 1910
Blanchard, Benjamin Willis, LL. B.
University of Maine, 1904 Bangor
Bridges, Corril Ellsworth, LL. B. Charlestown, Mass.
Albany Law School, 1887
Brown, Leon Gilman Carleton, LL. B.
Milo
University of Maine, 1905
Catalog of Students

Cartier, Arthur Jean Baptiste, LL. B. Biddeford
   University of Maine, 1909

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

Cotton, Carl, B. A., LL. B. Contocook, N. H.
   Colby College, 1900. University of Maine, 1906

   Dartmouth College, 1901. University of Maine, 1905

Dudley, John Perley, LL. B. Houlton
   Colby College. University of Maine, 1908

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

Craton, Claude Dewing, LL. B. Burlington, Vt.
   University of Maine, 1900

Juchhoff, Frederick, A. M., Ph. D., LL. B., LL. D.
   Chicago, Ill.
   Kansas City University. Ohio Northern University. Greer College, Illinois

Lemaire, Charles Wendell, LL. B. Taunton, Mass.
   University of Maine, 1910

Lewis, Charles Goodell, LL. B. Boston, Mass.
   University of Maine, 1908

   University of Maine, 1905

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

Merrill, Wilbur Frances, LL. B. Wiscasset
   University of Maine, 1911

Monroe, Edward Roy, LL. B. Portland
   University of Maine, 1907

Noble, Ernest Eugene, B. A., LL. B. Portland
   Colby College, 1897. University of Maine, 1903

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

Record, Lewis Stillman, Ph. B., LL. B.
   Newport, N. H.
   Brown University, 1902. University of Maine, 1905

Reid, Charles Hickson, LL. B. Bangor 60 Lincoln St.
   University of Maine, 1903

Robinson, Curville Charles, LL. B. New York City
   University of Maine, 1905
Catalog of Students

Seavey, Ernest Linwood, LL. B.  
University of Maine, 1908  
San Francisco, Cal.

Skillin, Carroll Brown, LL. B.  
University of Maine, 1908  
Portland

Toole, Christopher, LL. B.  
University of Maine, 1910  
Hartford, Conn.

Warren, John Clifford, B. S., LL. B.  
Portland  
University of Maine, 1902. Boston University, 1905

SENIORS

Adams, Frederick Prescott  
Cherryfield  76 Sanford St.

Baldwin, William Vincent Reginald  
No. Wilbraham, Mass.  214 French St.

Bowen, Everett Harlow, B. A.  
Bates College  Bangor  53 15th St.

Burns, Joseph Leo  
Taunton, Mass.  6 E House

Cook, Albert Fremont  
University of Maine  Bangor  645 Union St.

Davis, John Bradford  
Haverhill, Mass.  79 Kenduskeag Av.

Dow, Charles Whitefield  
Caribou  76 Sanford St.

Gardner, Philips Brooks  
Machias  183 Cedar St.

Greene, Arthur Albert  
Highgate Center, Vt.  88 Palm St.

Harvey, Leigh Irving  
B. A., Oxford University, 1911  Haverhill, Mass.  147 Essex St.

Ingalls, Ralph Morrill  
Milbridge  76 Sanford St.

Keith, Ballard Freese, B. A.  
University of Maine, 1908. Old Town  Old Town

Rand, Howard Benjamin  
Haverhill, Mass.  147 Essex St.

Sawyer, Henry Waide  
Milbridge  76 Sanford St.

Sullivan, Thomas Edward  
Linllec  112 Sanford St.

Thompson, Harry Alonzo  
Jackson, N. H.  320 Hammond St.

Weeks, Harold Edward, B. A.  
Bowdoin College, 1910  Fairfield  306 Hammond St.

JUNIORS

Adams, Charles Bayley  
Randolph, Vt.  88 Palm St.

Aiken, Percy Lewis  
Sorrento  88 Palm St.

Allen, Vivian Roath  
Norwich, Conn.  28 Sanford St.

Barwise, Mark Alton  
Bangor  101 Third St.

Beck, Andrew Jackson  
Deer Isle  88 Palm St.

Bove, Bernard Anthony, B. A.  
Van Buren College, 1906  Portland  57 Pine St.
Catalog of Students

Boyle, James Louis, B. A. Calais 112 Sanford St. St. Joseph's College, 1906
Chien, Yih C. Changehown, China 112 Sanford St. Bates College
Corliss, Edgar Francis, Jr. Cumberland 205 Main St. Bates College
Cowan, Walter Albion Winterport 166 Union St. Bates College
Doten, Max V. Calais 76 Sanford St. St. Joseph's College, 1906
Dwyer, William Henry Biddeford 88 Palm St. University of Maine
Kennedy, Michael James Woodland 112 Sanford St. Bates College
Roberts, Christopher Shirley Enfield, N. H. 147 Essex St. Bates College
Stanley, John William Rockland, Mass. 112 Sanford St. Bates College
Studley, Ernest Allen Augusta 166 Essex St. Dartmouth College
Turner, Erldon Blaisdell

FIRST YEAR

Bartlett, Charles Drummond Bangor 58 Cedar St. Harvard University
Blackington, Carl Adams Rockland 396 Hammond St. University of Maine
Brown, Lester Edward Cape Elizabeth 396 Hammond St. University of Maine
Burgh, David Tosh, B. A. Westbrook 166 Union St. Bowdoin College, 1911
* Chase, Walter Roland Bangor 305 Essex St. University of Maine
Cohen, Samuel Portland Hamlin Hall
Drew, William Harriman Penacook, N. H. 64 Third St.
Driscoll, Frank Gerald Randolph 64 Third St.
Goodspeed, Ernest Leroy, B. A. Auburn
Bowdoin College, 1909
Gulliver, James Lucius Barre, Vt. 56 Madison St.
Hoar, Ellen Morancy Mary Amherst, Mass. 161 Hammond St.
Hooker, Albert Austin Amherst, Mass. 161 Hammond St.
Hooker, Earl Dewey Cherryfield Σ X House
Jewett, Donald Campbell Amherst College.
University of Maine ——.
Leonard, Charles Edward Haverhill, Mass. 64 Third St.
Libby, Frank Milton Portland Δ T Δ House
Mountaine, James Barry Bangor Adams St.

* Deceased.
Catalog of Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>College</th>
</tr>
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<tr>
<td>Niles, Gladys Madeline</td>
<td>Bangor 56 Madison St.</td>
<td>Mt. Holyoke College</td>
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<td>O'Hear, Hugh Joseph</td>
<td>Thompsonville, Conn. 112 Sanford St.</td>
<td>University of Maine</td>
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<tr>
<td>O'Leary, Cornelius Joseph</td>
<td>Bangor 96 First St.</td>
<td>Bates College, 1909</td>
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<td>Patterson, Arthur Willis</td>
<td>Castine 2 A E House</td>
<td>University of Maine</td>
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<tr>
<td>Pease, Harvey Roscoe</td>
<td>Cornish 40 Court St.</td>
<td>University of Maine</td>
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<td>Sawyer, Allen Frank</td>
<td>Milbridge R Θ Η House</td>
<td>University of Maine</td>
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<td>Small, Fred Wakefield</td>
<td>Steep Falls 396 Hammond St.</td>
<td>Bates College, 1909</td>
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<td>Stuart, William Earle</td>
<td>So. Paris 64 Third St.</td>
<td>University of Maine</td>
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<td>Wadsworth, John Thaddeus, B. A.</td>
<td>Gardiner 64 Third St.</td>
<td>University of Maine</td>
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<td>Weick, Carl Alfred</td>
<td>Springfield 86 Grant St.</td>
<td>University of Maine</td>
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<tr>
<td>Whitney, Clarence Alden</td>
<td>Portland 2 X House</td>
<td>University of Maine</td>
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SPECIAL STUDENTS

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<tr>
<th>Name</th>
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<tr>
<td>Brown, Royden Valentine</td>
<td>Clinton 396 Hammond St.</td>
<td>Colby College</td>
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<tr>
<td>Cameron, Oliver Hugh</td>
<td>Norton Mills, Vt. 88 Palm St.</td>
<td>University of Maine, 1911</td>
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<tr>
<td>Dodd, Frederick Beaton</td>
<td>Bangor 5 Broadway</td>
<td>University of Maine</td>
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<tr>
<td>Epstein, Myer Wilfred</td>
<td>Bangor 303 Essex St.</td>
<td>University of Maine</td>
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<tr>
<td>Ferry, John Timothy</td>
<td>Bangor 36 Walter St.</td>
<td>University of Maine</td>
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<td>Fox, Calvin Louis</td>
<td>Houlton 303 Hammond St.</td>
<td>University of Maine</td>
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<td>Gillin, James McKinnon</td>
<td>Bangor 110 Pine St.</td>
<td>Bowdoin College</td>
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<td>Hamlin, Dunton, B. S.</td>
<td>Bangor 169 State St.</td>
<td>University of Maine</td>
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<td>Horowich, Moe</td>
<td>Bangor 45 Sidney St.</td>
<td>University of Maine</td>
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<td>Hurley, Martin Francis</td>
<td>Van Buren 128 Hammond St.</td>
<td>St. Mary's College</td>
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<td>Keegan, George J.</td>
<td>Portland 28 Second St.</td>
<td>University of Maine</td>
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<tr>
<td>Moran, James J.</td>
<td>Taunton, Mass. 396 Hammond St.</td>
<td>University of Maine</td>
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<td>O'Connor, James Gorman</td>
<td>Lewiston 88 Palm St.</td>
<td>University of Maine</td>
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<td>Powers, Frank</td>
<td>Montpelier, Vt. 396 Hammond St.</td>
<td>University of Maine</td>
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<td>Towle, James Roby</td>
<td>Peckskill, N. Y. 77 Union St.</td>
<td>University of Maine</td>
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<td>Turcott, Lyman</td>
<td>Taunton, Mass. 28 Second St.</td>
<td>University of Maine</td>
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<tr>
<td>Westgate, Harry Bloch</td>
<td></td>
<td>University of Maine</td>
</tr>
</tbody>
</table>
Catalog of Students

SHORT PHARMACY

SECOND YEAR

Hirkley, Victor Hugo
West Jone'sport
Park St.

Johnson, Fred Cloock
Princeton, Me.
408 H. H. Hall

Nugent, Loy Dodge
No. Lubec
10 Pine St.

Osbourne, William, Jr.
Bangor
Bangor

Stewart, Fred Thomas
Lincoln

FIRST YEAR

Barakat, Zaheeyeh Naoum
Beyrouth, Syria
Bangor

Brewster, Hugh Maynard
Dexter

Chandler, Sidney Hobart
Caribou
409 H. H. Hall

Daviau, Omer
Waterville
Δ K House

Fletcher, Maurice Arthur
Wilton
Campus

Fiallager, Wilfred Michael
Caribou

Lovely, Robert Osgood
New Limerick

Lynch, Thomas Augustus
Bangor

Redman, Edward Sanderson
Corinna

Rogers, Walter Henry
Cathance

Scarles, Harold Henry
Bangor

Turnelle, Wilfred Joseph
Rochester, N. H.
301 Oak Hall

TWO YEARS' COURSE IN DOMESTIC SCIENCE

SECOND YEAR

Sawyer, Mabelle
Bangor

Stearns, Luzetta Allen
Millinocket

Mt. Vernon House

FIRST YEAR

Barkley, Emma Elizabeth
Carlyle, Ill.

Greene, Martha Belle
So. Portland

No. Main St.

Jackman, Ruth Durgin
Vanceboro

Mt. Vernon House

TEACHERS' COURSE IN AGRICULTURE

Wentworth, George Francis
Woodman, N. H.

SCHOOL OF AGRICULTURE

SECOND YEAR

Austin, N. Kenneth
Launcille

Campus

Bartlett, Everett Webber
Monroe, R. F. D. No. 3

Main St.

Clancy, Francis Everest
Orono

4 Myrtle St.
# Catalog of Students

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Covell, Henry Tewksbury</td>
<td>Farmington Bradley School</td>
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<td>Everleth, Roger</td>
<td>Σ A E House</td>
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<td>Goodwin, Howard Freeman</td>
<td>Marlboro, Mass.</td>
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<td>Hamilton, Willis Crosby</td>
<td>West Scarborough</td>
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<td>Jones, Roy Edwin</td>
<td>Pelham, N. H.</td>
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<td>Jones, Walter Scott</td>
<td>Somerville, Mass.</td>
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<td>Kimball, Everett Augustus</td>
<td>Old Town</td>
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<td>Larrabee, Charles Carlyle</td>
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<td>Nason, William Henry</td>
<td>Old Town</td>
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<td>Osgood, Carrol Merton</td>
<td>East Brownfield</td>
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<td>Pearson, Peter Andrew</td>
<td>Calais</td>
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<td>Rowe, Wilfred Sherman</td>
<td>Auburn</td>
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<td>Smith, Perley Foster</td>
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<td>Smith, Ralph Lord</td>
<td>Kennebunkport Σ A E House</td>
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<td>Taylor, Cleba Charles</td>
<td>Skowhegan 1 Park St.</td>
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<td>Wadsworth, John William</td>
<td>Auburn Campus</td>
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<td>Waterman, Wilfred Allen</td>
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**FIRST YEAR**

<table>
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<th>Name</th>
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<tr>
<td>Barford, John Wallace</td>
<td>E. Chatham 403 H. H. Hall</td>
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<td>Berce, Woodbury Lee</td>
<td>Caribou 101 H. H. Hall</td>
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<td>Bigelow, Ralph Burrill</td>
<td>Orono Campus</td>
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<td>Boothby, Harold</td>
<td>Maplewood Pine St.</td>
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<td>Buker, Irving Estes</td>
<td>Bath Δ K House</td>
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<td>Carle, Leon Percy</td>
<td>No. Raymond H. H. Hall</td>
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<td>Dodsels, Ira Herman</td>
<td>No. Hero, Vt. Park St.</td>
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<tr>
<td>Dodge, Leon Augustine</td>
<td>So. Newcastle 403 H. H. Hall</td>
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<tr>
<td>Ellis, Carroll Hatch</td>
<td>Waterville No. Main St.</td>
</tr>
<tr>
<td>Farrar, Carl DeWees</td>
<td>Lynn, Mass. 111 H. H. Hall</td>
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<tr>
<td>Fuller, Nelson Edward</td>
<td>Livermore Falls R. No. 1</td>
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<tr>
<td>Gray, George Edwin</td>
<td>Anson 303 H. H. Hall</td>
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<tr>
<td>Hawkes, Harry Sawyer</td>
<td>Cumberland Δ K House</td>
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<tr>
<td>Jones, Martin Ernest</td>
<td>Kashua, N. H., R. 16 Main St.</td>
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<tr>
<td>Leary, James Augustus</td>
<td>F. Hampden Campus</td>
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<tr>
<td>Leusher, Herbert Lockwood</td>
<td>Cambridge, Mass. 103 Oak Hall</td>
</tr>
<tr>
<td>McCloy, Robert Bruerton</td>
<td>Buffalo, N. Y. Φ Π Δ House</td>
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<tr>
<td>McIntire, Charles</td>
<td>Perham 101 H. H. Hall</td>
</tr>
<tr>
<td>Merrill, Lawrence Otho</td>
<td>Mechanic Falls 109 H. H. Hall</td>
</tr>
</tbody>
</table>
Catalog of Students

Merry, Eugene Raymond  Madison  211 Oak Hall
Merry, Roy Lee  Madison  211 Oak Hall
Morse, Leppien William  Upton  104 H. H. Hall
Richardson, Arthur Waterhouse  Old Orchard  Myrtle St.
St. Clair, Melvin Henry  Owl's Head  201 H. H. Hall
Sawyer, Elmer Frederick  Saco  Myrtle St.
Sidelingier, Alfred Henry  Nobleboro  Campus
Snow, Albert Henry  Bucksport  104 H. H. Hall
Snow, Everett Aaron  Lawrence, Mass.  Σ Α Ε House
Tarbox, Earle Wentworth  Saco  Park St.
Tebbetts, Fred Milton  Belgrade  209 H. H. Hall
Wadsworth, Carroll Benton  Cornish  Park St.
West, Thomas Ross  Saco, R. F. D.  Park St.
Woodman, Philip Furness  Biddeford  201 H. H. Hall

SUMMER TERM

(abbreviations indicate subjects taken)

Alley, Clifton Lowery  Mt. Vernon  Ms. Ps.
AMES, Leroy Winfield, B. A.  Bangor  Ch. Ps.
Principal
Arey, Florian George,  Stonington  Ms. Ps.
Teacher
Baker, Helen Marie  Orono  Ms. Rm.
Barker, Corinne Marde  Bangor  Ed. Eh. Ms.
Teacher
Black, Frank Harcourt  Pawtucket, R. I.  Ms.
Blodget, Hugh Young  Bucksport  Ms.
Boardman, Elliot Sheffield  Guilford  Lt. Ms.
Bradbury, Ira Miller  Gorham  Ms. Ps.
Breck, Lloyd Francis  Lee  Eh. Ms.
Bright, Elizabeth Mason  Bangor  Ps.
Brooks, James Stothard  Brewer  Eh. Gm. Ms.
Buzyell, Robert Loring  Old Town  Ec. Eh.
Chapman, George Bunker  Augusta  Ec. Ed.
Chase, Charles Arthur  Sebec Station  Ch. Ec. Gm.
Chilcott, Clio Melissa, A. B. A. M.  Bangor  Ch. Ds.
Teacher
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Role</th>
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<tr>
<td>Crosby, Harry Lawrence</td>
<td>Portland</td>
<td>Ec. Ms.</td>
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<td>Cerrier, Blanche, B. A.</td>
<td>Haverhill, Mass.</td>
<td>Gm. Rm.</td>
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<td>Daggett, Windsor Pratt, Ph. B.</td>
<td>Orono</td>
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<td>Davis, Ellen Margaret</td>
<td>Old Town</td>
<td>Ms. Ps.</td>
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<tr>
<td>Dinsmore, Ernest Leroy, B. A.</td>
<td>Auburn</td>
<td>Ch. Ps.</td>
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<td>Dixon, Esther Margaret</td>
<td>Southwest Harbor</td>
<td>Ec. Eh. Lt. Hy.</td>
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<td>Dow, Owen Oscar, B. S.</td>
<td>Hiram</td>
<td>Ch. Ps.</td>
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<td>Dyer, Guy Valentine</td>
<td>Calais</td>
<td>Ec. Eh. Gm.</td>
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<td>Evans, James Alfred</td>
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<td>Eh. Ms.</td>
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<td>Faulkner, William Thomas</td>
<td>Greene</td>
<td>Ec. Ms. Ps.</td>
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<td>Ferguson, George</td>
<td>Springfield</td>
<td>Ms. Ps.</td>
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<td>Fernandez, Gracia Lillian, B. S.</td>
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<td>Gm. Rm.</td>
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<td>Fletcher, Roland Ezra</td>
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<td>Ford, Perley Harvey</td>
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<td>Frohock, Joseph Atkinson</td>
<td>Waldoboro</td>
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<td>George, Daisy Evelyn</td>
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<td>Eh. Gm. Rm.</td>
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<td>Gilbert, William Henry, A. B.</td>
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<td>Gilmore, Edith</td>
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<td>Gordon, Robert James</td>
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<td>Gray, Ernest Linwood</td>
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<td>Hamlin, Joseph W.</td>
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<td>Ed.</td>
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<td>Harthorn, Marion Louise</td>
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<td>Lt. Rm.</td>
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<td>Hartill, Leonard Ramsden</td>
<td>Brunswick, R. No. 4</td>
<td>Ec. Rm.</td>
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<td>Henderson, Robert Raymond</td>
<td>Madison</td>
<td>Ec. Ps. Rm.</td>
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<td>Higgins, Ernest Daniel</td>
<td>Morrill</td>
<td>Ch. Ed. Rm.</td>
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<td>Hilton, William</td>
<td>Greenville</td>
<td>Eh. Ps.</td>
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</tbody>
</table>
Catalog of Students

Hodgkins, Edward Marshall
Houghton, Lloyd Everett
Huggins, Leslie Mansfield
Hurley, Wilfred Geoffrey
Jones, Carrol Clair
Jones, Charles Nelson
Jones, Frederic Sawtelle
Jones, Harold Libby
Jones, Heywood Shaw
Jordan, Grace
King, Albert Lincoln
Lane, Arthur
Libby, Julia May
Teacher
Mansfield, Warren Wilson, Jr.
Mariner, Hazel Folsom
Mellor, Lewis Leroy
Michaels, Janie Chase, M. S.
Murray, Walter Edward
Nealey, James Barton
Nutter, William Josiah, A. B.
Principal
Oak, Malcolm Hayford
Parker, William Emery
Parsons, Grace Ina, A. B.
Preceptress
Perry, Frances Marion
Teacher
Pinkham, Seymour Leroy
Pope, Morrill Stuart
Pratt, Mary Ella
Teacher
Pretto, Frances Ella
Teacher
Quarmby, George Henry
Rand, Ernest Abbott
Rand, Lynne Thomas
Richardson, Howard Byron
Roberts, George Harley
Robinson, Eben George

No. Pembroke, Mass. Ms.
Lee Ch. Ec.
Frankfort Lt. Rm.
Solon Ec. Eh. Ms.
Mercer Ag. Ms.
Augusta Eh. Ms.
Corinna Lt. Ms. Ps.
Bangor Gm. Lt. Rm.
Waltham Ds. Eh. Hy.
So. Paris Ch. Hy. Ms.
Hartland Eh. Ms.
Portland Eh. Gm. Rm.
Milford Ec. Eh.
Guilford Eh. Gm.
Stillwater Ds.
E. Lynn, Mass. Ec. Ps.
Bangor Ms.
Brooklin Ag.
Caribou Eh. Lt.
Harrington Ec. Md.
Bangor Ds. Hy.
Orono Ed. Eh. Hy.
Portland Md. Ms. Ps.
E. Machias Eh. Ms.
Malden, Mass. Rm.
Orono Ed. Hy. Rm.
Saugus, Mass. Ch. Md.
Portland Ch. Eh. Gm.
Unity Ec. Hy. Rm.
Southwest Harbor Ec. Gm. Rm.
Brownville Junct. Ch. Hy. Rm.
Edgewood, R. I. Ch. Ms. Rm.
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
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<tbody>
<tr>
<td>Rogers, Florence Abbie, A. B. Teacher</td>
<td>Bangor</td>
<td>Ch. Ms. Rm.</td>
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<tr>
<td>Rogers, Martha</td>
<td>Atlanta, Ga.</td>
<td>Ds.</td>
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<td>Sawyer, Grace Ruth</td>
<td>Old Town</td>
<td>Ms.</td>
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<td>Sawyer, Ralph M.</td>
<td>Milford</td>
<td>Lt. Ms.</td>
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<td>Simonds, Gertrude Estelle, B. L. Teacher</td>
<td>Haverhill, Mass.</td>
<td>Hy. Rm.</td>
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<td>Small, Nathan Houston</td>
<td>Belfast</td>
<td>Ec. Ed. Rm.</td>
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<td>Sturgis, David William</td>
<td>Gorham</td>
<td>Eh. Ms. Rm.</td>
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<td>Sutton, Arra Louise</td>
<td>Orono</td>
<td>Ds.</td>
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<td>Thompson, Frederick Mosher</td>
<td>Portland</td>
<td>Ps. Rm.</td>
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## SHORT COURSES

### DAIRYING AND GENERAL AGRICULTURE

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**Pastors**

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**Farmers' Week**

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247
Catalog of Students

Averill, Mrs. W. S. Orono
Ayer, W. O. Kenduskeag
Bachelder, P. J. Bangor
Bailey, L. A. Medford
Baker, A. M. Hampden Highlands
Banks, C. F. Bangor
Banks, L. G. Bangor
Barber, C. W. Augusta
Bartlett, E. N. Winterport
Bartlett, Mrs. E. N. Winterport
Bartlett, J. M. Orono
Bateman, L. C. Lewiston
Beach, Mrs. D. N. Bangor
Bean, Mrs. P. L. Orono
Bell, Harry Garland
Bell, Mrs. H. G. Evanston, Ill.
Bell, H. M. Islesboro
Benner, D. M. Monmouth
Bickmore, E. D. Stockton Springs
Bishop, E. A. Arnold's Mills
Black, H. C. Augusta
Black, Mrs. H. C. Augusta
Eoring, A. M. Orono
Boulbee, L. H. Bangor
Bradford, P. W. Corvallis, Ore.
Brett, B. C. Auburn
Brown, Mrs. C. B. Orono
Browne, Gertrude Orono
Brown, J. C. Orono
Brown, Mrs. W. A. Ottawa, Can.
Buckley, J. P. Stroudwater
Burgess, Mrs. J. H. Bangor
Burke, A. K. Orono
Call, Irving Carmel
Came, C. F. Bar Harbor
Campbell, Josephine Orono
Campbell, Mrs. W. J. Old Town
Cannon, Mrs. W. Orono
Cannon, J. T. Bangor
Chambers, Mrs. S. D. Orono
Chandler, Mrs. A. J. Bangor
Chandler, R. C. D. Bangor

Chapman, E. R. South Brewer
Chapman, Mrs. E. R. South Brewer
Chase, Elizabeth Orono
Chase, Mrs. G. D. Orono
Chase, H. E. North Edgecomb
Cheswell, Mrs. E. C. Orono
Chilcott, Mrs. L. S. Bangor
Chrysler, Mrs. M. A. Orono
Church, V. Bangor
Clark, Mrs. C. M. Bangor
Clark, Doris Bangor
Clark, Grace Orono
Cleaves, Vaughan Steuben
Clement, J. J. Ctr. Montville
Clement, Mrs. J. J. Ctr. Montville
Clement, Mrs. P. A. Ctr. Montville
Clifford, A. J. Sandy Point
Coady, Eliza Orono
Conser, Mrs. H. N. Orono
Copeland, Roscoe Dexter
Copeland, R. L. Holden
Copeland, Mrs. R. L. Holden
Craig, J. M. Orono
Craig, Mrs. W. Orono
Crane, Mrs. L. F. Orono
Cressy, S. W. Corinth
Cunningham, J. A. Orono
Curtis, Mrs. W. M. Orono
Cushman, E. L. Bangor
Davee, Mrs. E. W. Orono
Davis, Hugh Veazie
Davis, Mable Hudson
Davis, M. S. Bangor
Davis, P. H. Veazie
Davis, W. H. Augusta
Day, A. P. West Kennebunk
DeRoche, Hattie Howland
Dillingham, C. A. Hampden
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Catalog of Students

Hooper, H. B. Bangor Lowe, I. E. Fairfield
Howard, F. Bangor Lowell, Gladys Bangor
Hunt, F. H. Unity Luce, H. J. South Newburg
Hunt, G. H. Bangor Lyman, Mrs. J. B. Orono
Hunt, Mrs. G. H. Bangor McLeod, K. G. Bangor
Hunt, W. J. Holden McLeod, F. Bangor
Hussey, E. H. Guilford McIntire, C. S. East Waterford
Hutchings, W. Orland McIntire, Mrs. C. S.
Jackman, Mrs. W. F. Orono
Jewett, Mrs. A. C. Bangor McPheters, A. S. Orono
Jewett, L. Bangor Mahony, Mrs. W. A. East Northport
Johnson, A. G. North Bangor
Johnson, Charles Machias Malony, Mrs. J. A. Orono
Jones, Albert Orono Mansfield, Mrs. B. B. Jonesport
Jones, E. M. Unity Mansfield, Mrs. E. W. Orono
Jones, G. M. Etna
Jones, K. Bangor Mason, Mrs. E. J. Biddeford
Jones, M. S. Bangor Mayo, K. C. Bradley
Jose, S. O. Dexter Merrick, H. J. Augusta
Kaulfuss, Mrs. J. E. Orono Merrill, Dwight Gray
Kelleher, Mrs. B. P. Orono Merrill, E. S. Orono
Kent, A. M. Old Town Merrill, F. H. Orono
Kent, Mrs. B. H. Old Town Merrill, G. H. Orono
Kent, C. B. Bangor Merrill, H. S. Orono
Kent, Emily Old Town Merrill, K. Orono
King, A. W. Orrington Merrill, Mrs. L. H. Orono
King, H. Orono Merrill, Mrs. L. S. Orono
Knowlton, G. H. Vassalboro Merryman, R. S. Orono
Ladner, M. R. Orono Millett, Mrs. H. Orono
Leach, A. F. Bucksport Milliken, E. R. West Baldwin
Leavitt, C. A. Turner Mitchell, Rives
Leeland, J. W. Dover Mitchell, R. P. Kent's Hill
Leeland, Mrs. J. W. Dover Monroe, J. R. Monroe
Lewis, C. E. Orono Moore, J. A. Glenburn
Lewis, Mrs. C. E. Orono Moore, Mabel Bangor
Lewis, J. P. Bucksport Moore, W. C. Bangor
Lincoln, H. M. Corinna Morris, Frank Orono
Little, A. L. Brewer Morse, C. Orono
Littlefield, J. E. Brewer Morse, G. H. Dover
Lord, Mrs. A. L. Orono Morse, Mrs. W. Brewer
Loring, Charles Carmel Mosher, C. H. Wilton
Lowe, E. S. Gray Mosher, H. H. Wilton
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### FACULTY

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### STUDENTS

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253
### General Summary

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#### Classification by Residence

Maine, by counties:

- Androscoggin                                      37
- Aroostook                                         30
- Cumberland                                        83
- Franklin                                          11
- Hancock                                           32
- Kennebec                                          40
- Knox                                              21
- Lincoln                                           8
- Oxford                                            40
- Penobscot                                         235
- Piscataquis                                       16
- Sagadahoc                                         9
- Somerset                                          30
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**CLASSIFICATION BY COLLEGES**

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**CLASSIFICATION OF CANDIDATES FOR DEGREES**

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<tbody>
<tr>
<td>Absence from examinations</td>
<td>39</td>
</tr>
<tr>
<td>Administration, officers of</td>
<td>9</td>
</tr>
<tr>
<td>Advanced standing</td>
<td>47</td>
</tr>
<tr>
<td>Admiralty</td>
<td>157</td>
</tr>
<tr>
<td>Admission</td>
<td>47</td>
</tr>
<tr>
<td>by certificate</td>
<td>49</td>
</tr>
<tr>
<td>by examination</td>
<td>48</td>
</tr>
<tr>
<td>general requirements</td>
<td>47</td>
</tr>
<tr>
<td>local examinations for</td>
<td>48</td>
</tr>
<tr>
<td>of college graduates</td>
<td>47</td>
</tr>
<tr>
<td>of special students</td>
<td>47</td>
</tr>
<tr>
<td>preliminary examinations</td>
<td>48</td>
</tr>
<tr>
<td>for</td>
<td>49</td>
</tr>
<tr>
<td>requirements for</td>
<td>47</td>
</tr>
<tr>
<td>to advance standing</td>
<td>47</td>
</tr>
<tr>
<td>to College of Law</td>
<td>155</td>
</tr>
<tr>
<td>to special and extension courses</td>
<td>47</td>
</tr>
<tr>
<td>Agricultural chemistry</td>
<td>93</td>
</tr>
<tr>
<td>Agricultural engineering</td>
<td>98</td>
</tr>
<tr>
<td>Agricultural Experiment Station</td>
<td>201</td>
</tr>
<tr>
<td>building</td>
<td>21</td>
</tr>
<tr>
<td>Council</td>
<td>8</td>
</tr>
<tr>
<td>equipment</td>
<td>203</td>
</tr>
<tr>
<td>faculty</td>
<td>201</td>
</tr>
<tr>
<td>farm</td>
<td>203</td>
</tr>
<tr>
<td>income</td>
<td>202</td>
</tr>
<tr>
<td>inspections</td>
<td>204</td>
</tr>
<tr>
<td>investigations</td>
<td>204</td>
</tr>
<tr>
<td>object</td>
<td>202</td>
</tr>
<tr>
<td>publications</td>
<td>204</td>
</tr>
<tr>
<td>Agriculture, College of</td>
<td>64</td>
</tr>
<tr>
<td>building</td>
<td>23</td>
</tr>
<tr>
<td>correspondence courses</td>
<td>82</td>
</tr>
<tr>
<td>demonstration work</td>
<td>83</td>
</tr>
<tr>
<td>extension courses</td>
<td>82</td>
</tr>
<tr>
<td>faculty</td>
<td>64</td>
</tr>
<tr>
<td>school course</td>
<td>78</td>
</tr>
<tr>
<td>special courses</td>
<td>78</td>
</tr>
<tr>
<td>teachers’ course</td>
<td>71</td>
</tr>
<tr>
<td>winter courses</td>
<td>81</td>
</tr>
<tr>
<td>Agronomy</td>
<td>85</td>
</tr>
<tr>
<td>curriculum</td>
<td>67</td>
</tr>
<tr>
<td>Alpha Zeta</td>
<td>33</td>
</tr>
<tr>
<td>Alternating currents</td>
<td>188</td>
</tr>
<tr>
<td>Alumni Advisory Council</td>
<td>209</td>
</tr>
<tr>
<td>Alumni associations</td>
<td>209</td>
</tr>
<tr>
<td>Alumni Hall</td>
<td>20</td>
</tr>
<tr>
<td>Animal Industry</td>
<td>87</td>
</tr>
<tr>
<td>curriculum</td>
<td>68</td>
</tr>
<tr>
<td>Anthropology</td>
<td>114</td>
</tr>
<tr>
<td>Appointments</td>
<td>220</td>
</tr>
</tbody>
</table>
## Index

<table>
<thead>
<tr>
<th>Page</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Archaeology</td>
<td>131</td>
</tr>
<tr>
<td>Architecture</td>
<td>135</td>
</tr>
<tr>
<td>Art</td>
<td>96, 134</td>
</tr>
<tr>
<td>museum</td>
<td>30</td>
</tr>
<tr>
<td>Arts and Sciences, College of</td>
<td>104</td>
</tr>
<tr>
<td>degrees</td>
<td>107</td>
</tr>
<tr>
<td>departments</td>
<td>108</td>
</tr>
<tr>
<td>faculty</td>
<td>104</td>
</tr>
<tr>
<td>Associations</td>
<td>32</td>
</tr>
<tr>
<td>Astronomy</td>
<td>142</td>
</tr>
<tr>
<td>Athletic field</td>
<td>29</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>91</td>
</tr>
<tr>
<td>Battalion</td>
<td>219</td>
</tr>
<tr>
<td>Bibliography</td>
<td>109</td>
</tr>
<tr>
<td>Biological chemistry</td>
<td>92</td>
</tr>
<tr>
<td>Biology</td>
<td>109</td>
</tr>
<tr>
<td>entrance</td>
<td>59</td>
</tr>
<tr>
<td>Board</td>
<td>43</td>
</tr>
<tr>
<td>Botany</td>
<td>111</td>
</tr>
<tr>
<td>Buildings and equipment</td>
<td>20</td>
</tr>
<tr>
<td>Bulletins of the Experiment Station</td>
<td>204</td>
</tr>
<tr>
<td>Business Law</td>
<td>115</td>
</tr>
<tr>
<td>Calendar</td>
<td>3</td>
</tr>
<tr>
<td>Catalog, annual</td>
<td>34</td>
</tr>
<tr>
<td>Central heating plant</td>
<td>28</td>
</tr>
<tr>
<td>Cercle Francais</td>
<td>34</td>
</tr>
<tr>
<td>Certificate, admission by</td>
<td>49</td>
</tr>
<tr>
<td>Certificate board</td>
<td>49</td>
</tr>
<tr>
<td>Certificates in agriculture</td>
<td>79</td>
</tr>
<tr>
<td>Chemical Engineering curriculum</td>
<td>165</td>
</tr>
<tr>
<td>Dairy building</td>
<td>25</td>
</tr>
<tr>
<td>Chemistry</td>
<td>179</td>
</tr>
<tr>
<td>curriculum</td>
<td>163</td>
</tr>
<tr>
<td>entrance</td>
<td>60</td>
</tr>
<tr>
<td>industrial</td>
<td>181</td>
</tr>
<tr>
<td>organic</td>
<td>179</td>
</tr>
<tr>
<td>physical</td>
<td>182</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>183</td>
</tr>
<tr>
<td>curriculum</td>
<td>167</td>
</tr>
<tr>
<td>Classical curriculum</td>
<td>107</td>
</tr>
<tr>
<td>Commencement exercises, 1911</td>
<td>212</td>
</tr>
<tr>
<td>Committees of the faculty</td>
<td>17</td>
</tr>
<tr>
<td>Cookery</td>
<td>94</td>
</tr>
<tr>
<td>Correspondence courses</td>
<td>82</td>
</tr>
<tr>
<td>Criminal Law</td>
<td>158</td>
</tr>
<tr>
<td>Curricula</td>
<td>61</td>
</tr>
<tr>
<td>Agricultural</td>
<td>85</td>
</tr>
<tr>
<td>Agronomy</td>
<td>85</td>
</tr>
<tr>
<td>Animal Industry</td>
<td>87</td>
</tr>
<tr>
<td>Chemical</td>
<td>163</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>105</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>167</td>
</tr>
<tr>
<td>Classical</td>
<td>107</td>
</tr>
<tr>
<td>Domestic Science</td>
<td>93</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>170</td>
</tr>
<tr>
<td>Forestry</td>
<td>99</td>
</tr>
<tr>
<td>Graduate</td>
<td>107</td>
</tr>
<tr>
<td>Horticultural</td>
<td>69</td>
</tr>
<tr>
<td>Law</td>
<td>157</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>172</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>175</td>
</tr>
<tr>
<td>Short Pharmacy</td>
<td>177</td>
</tr>
<tr>
<td>Special</td>
<td>47</td>
</tr>
<tr>
<td>College</td>
<td>Page</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Dairying</td>
<td>88</td>
</tr>
<tr>
<td>Debate</td>
<td>122</td>
</tr>
<tr>
<td>Declamations</td>
<td>122</td>
</tr>
<tr>
<td>sophomore prize</td>
<td>45-122</td>
</tr>
<tr>
<td>Degrees</td>
<td>40</td>
</tr>
<tr>
<td>advanced</td>
<td>41</td>
</tr>
<tr>
<td>Degrees conferred, 1911</td>
<td>212</td>
</tr>
<tr>
<td>Deposits</td>
<td>44</td>
</tr>
<tr>
<td>Domestic Science</td>
<td>93</td>
</tr>
<tr>
<td>curricula in short courses</td>
<td>74</td>
</tr>
<tr>
<td>Dormitories</td>
<td>44</td>
</tr>
<tr>
<td>Dramatic club</td>
<td>33</td>
</tr>
<tr>
<td>Drawing</td>
<td>196</td>
</tr>
<tr>
<td>Drill, hall</td>
<td>36</td>
</tr>
<tr>
<td>economics</td>
<td>113</td>
</tr>
<tr>
<td>Education</td>
<td>117</td>
</tr>
<tr>
<td>Ethnology</td>
<td>114</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>188</td>
</tr>
<tr>
<td>Farm Buildings</td>
<td>26</td>
</tr>
<tr>
<td>Embryology</td>
<td>111</td>
</tr>
<tr>
<td>Endowment of the University</td>
<td>19</td>
</tr>
<tr>
<td>English</td>
<td>119</td>
</tr>
<tr>
<td>entrance</td>
<td>51</td>
</tr>
<tr>
<td>literature</td>
<td>122</td>
</tr>
<tr>
<td>public speaking</td>
<td>121</td>
</tr>
<tr>
<td>Entomology</td>
<td>111</td>
</tr>
<tr>
<td>French</td>
<td>151</td>
</tr>
<tr>
<td>entrance</td>
<td>53</td>
</tr>
<tr>
<td>Geological collection</td>
<td>20</td>
</tr>
<tr>
<td>Geology</td>
<td>93</td>
</tr>
<tr>
<td>Entrance, dates of examinations</td>
<td>48</td>
</tr>
<tr>
<td>Examinations</td>
<td>48</td>
</tr>
<tr>
<td>Examinations, arrearage</td>
<td>39</td>
</tr>
<tr>
<td>Ethics</td>
<td>146</td>
</tr>
<tr>
<td>Evidence</td>
<td>159</td>
</tr>
<tr>
<td>rules with regard to</td>
<td>48</td>
</tr>
<tr>
<td>Expenses of students</td>
<td>42-157</td>
</tr>
<tr>
<td>Experiment Station</td>
<td>201</td>
</tr>
<tr>
<td>Faculty, University</td>
<td>10</td>
</tr>
<tr>
<td>Agriculture</td>
<td>64</td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td>104</td>
</tr>
<tr>
<td>Experiment Station</td>
<td>201</td>
</tr>
<tr>
<td>Law</td>
<td>154</td>
</tr>
<tr>
<td>Technology</td>
<td>162</td>
</tr>
<tr>
<td>Farm management</td>
<td>98</td>
</tr>
<tr>
<td>Fees, laboratory</td>
<td>43</td>
</tr>
<tr>
<td>Fernald Hall</td>
<td>21</td>
</tr>
<tr>
<td>Forestry</td>
<td>99</td>
</tr>
<tr>
<td>curriculum</td>
<td>72</td>
</tr>
<tr>
<td>Fraternity houses</td>
<td>29</td>
</tr>
<tr>
<td>Junior exhibition</td>
<td>45</td>
</tr>
<tr>
<td>speakers, 1910</td>
<td>230</td>
</tr>
<tr>
<td>Kidder scholarship</td>
<td>45</td>
</tr>
<tr>
<td>Kittredge loan fund</td>
<td>45</td>
</tr>
</tbody>
</table>
## Index

<table>
<thead>
<tr>
<th>German</th>
<th>PAGE 129</th>
<th>Laboratory charges</th>
<th>PAGE 43</th>
</tr>
</thead>
<tbody>
<tr>
<td>entrance</td>
<td>PAGE 55</td>
<td>Landscape gardening</td>
<td>PAGE 102</td>
</tr>
<tr>
<td>Gothic</td>
<td>PAGE 130</td>
<td>Latin</td>
<td>PAGE 137</td>
</tr>
<tr>
<td>Graduate curricula</td>
<td>PAGE 107</td>
<td>Law Building</td>
<td>PAGE 24</td>
</tr>
<tr>
<td>Graduation, requirements for...</td>
<td>PAGE 62</td>
<td>Law, College of</td>
<td>PAGE 154</td>
</tr>
<tr>
<td>Greek</td>
<td>PAGE 131</td>
<td>admission</td>
<td>PAGE 155</td>
</tr>
<tr>
<td>architecture</td>
<td>PAGE 135</td>
<td>courses</td>
<td>PAGE 157</td>
</tr>
<tr>
<td>preparatory courses</td>
<td>PAGE 132</td>
<td>degrees</td>
<td>PAGE 157</td>
</tr>
<tr>
<td>religion</td>
<td>PAGE 133</td>
<td>expenses</td>
<td>PAGE 157</td>
</tr>
<tr>
<td>Gymnasium</td>
<td>PAGE 37</td>
<td>faculty</td>
<td>PAGE 154</td>
</tr>
<tr>
<td>Hannibal Hamlin Hall</td>
<td>PAGE 27</td>
<td>methods of instruction</td>
<td>PAGE 156</td>
</tr>
<tr>
<td>Herbarium</td>
<td>PAGE 31</td>
<td>Least squares</td>
<td>PAGE 159</td>
</tr>
<tr>
<td>Histology, animal plant</td>
<td>PAGE 111</td>
<td>Library</td>
<td>PAGE 24, 29</td>
</tr>
<tr>
<td>History</td>
<td>PAGE 125</td>
<td>Literati</td>
<td>PAGE 33</td>
</tr>
<tr>
<td>entrance</td>
<td>PAGE 58</td>
<td>Loans</td>
<td>PAGE 45</td>
</tr>
<tr>
<td>Holmes Hall</td>
<td>PAGE 31</td>
<td>Logic</td>
<td>PAGE 146</td>
</tr>
<tr>
<td>Honorary societies</td>
<td>PAGE 34</td>
<td>Lord Hall</td>
<td>PAGE 22</td>
</tr>
<tr>
<td>Honors</td>
<td>PAGE 39</td>
<td>Lumbering</td>
<td>PAGE 101</td>
</tr>
<tr>
<td>conferred, 1911</td>
<td>PAGE 219</td>
<td>Machine design</td>
<td>PAGE 193</td>
</tr>
<tr>
<td>Horticultural building</td>
<td>PAGE 25</td>
<td>Maine bulletins</td>
<td>PAGE 35</td>
</tr>
<tr>
<td>Horticulture</td>
<td>PAGE 101</td>
<td>Materia medica</td>
<td>PAGE 197</td>
</tr>
<tr>
<td>Hydraulics</td>
<td>PAGE 186</td>
<td>Mathematics</td>
<td>PAGE 141</td>
</tr>
<tr>
<td>Income of the University</td>
<td>PAGE 19</td>
<td>entrance</td>
<td>PAGE 58</td>
</tr>
<tr>
<td>Infirmary</td>
<td>PAGE 28</td>
<td>Mechanical engineering</td>
<td>PAGE 191</td>
</tr>
<tr>
<td>Inn, University</td>
<td>PAGE 44</td>
<td>curriculum</td>
<td>PAGE 172</td>
</tr>
<tr>
<td>Insurance</td>
<td>PAGE 160</td>
<td>Mechanics</td>
<td>PAGE 196</td>
</tr>
<tr>
<td>International law</td>
<td>PAGE 115</td>
<td>Mechanics and Drawing</td>
<td>PAGE 195</td>
</tr>
<tr>
<td>Medicine, preparation for...</td>
<td>PAGE 107</td>
<td>Prizes</td>
<td>PAGE 45</td>
</tr>
<tr>
<td>Methodology</td>
<td>PAGE 118</td>
<td>awarded, 1911</td>
<td>PAGE 218</td>
</tr>
</tbody>
</table>

259
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Military, drill</td>
<td>36</td>
<td>Psychology</td>
<td>145</td>
</tr>
<tr>
<td>instruction</td>
<td>36</td>
<td>Publications</td>
<td>34</td>
</tr>
<tr>
<td>science, courses in</td>
<td>199</td>
<td>Public Speaking</td>
<td>121</td>
</tr>
<tr>
<td>science, requirements in</td>
<td>36</td>
<td>Reading room</td>
<td>30</td>
</tr>
<tr>
<td>uniform</td>
<td>36</td>
<td>Regulations of the University</td>
<td>38</td>
</tr>
<tr>
<td>Mt. Vernon House</td>
<td>28</td>
<td>Reports, of the Experiment</td>
<td></td>
</tr>
<tr>
<td>Museum</td>
<td>28</td>
<td>Station</td>
<td>35</td>
</tr>
<tr>
<td>Oak Hall</td>
<td>30</td>
<td>of standing</td>
<td>39</td>
</tr>
<tr>
<td>Observatory</td>
<td>25</td>
<td>of the University</td>
<td>35</td>
</tr>
<tr>
<td>Optics</td>
<td>149</td>
<td>Required Courses</td>
<td>62</td>
</tr>
<tr>
<td>Organization of the University</td>
<td>61</td>
<td>Requirements, for admission</td>
<td>47</td>
</tr>
<tr>
<td>Organizations</td>
<td>32</td>
<td>for graduation</td>
<td>62</td>
</tr>
<tr>
<td>Pedagogy</td>
<td>117</td>
<td>Rhetoric</td>
<td>120</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>196</td>
<td>Romance Languages</td>
<td>151</td>
</tr>
<tr>
<td>curriculum</td>
<td>175</td>
<td>Roman Epigraphy</td>
<td>139</td>
</tr>
<tr>
<td>short curriculum</td>
<td>177</td>
<td>Roman Numismatics</td>
<td>140</td>
</tr>
<tr>
<td>Phi Kappa Phi</td>
<td>34</td>
<td>Roman Philosophy</td>
<td>138</td>
</tr>
<tr>
<td>members</td>
<td>219</td>
<td>Rooms</td>
<td>44</td>
</tr>
<tr>
<td>Philosophy</td>
<td>145</td>
<td>Round Table</td>
<td>34</td>
</tr>
<tr>
<td>Physical Geography</td>
<td>60</td>
<td>Rule of Conduct</td>
<td>38</td>
</tr>
<tr>
<td>Physical training</td>
<td>37</td>
<td>Sanitary engineering</td>
<td>185</td>
</tr>
<tr>
<td>courses in</td>
<td>200</td>
<td>Sanskrit</td>
<td>139</td>
</tr>
<tr>
<td>Physics</td>
<td>148</td>
<td>Scholarship honors</td>
<td>39</td>
</tr>
<tr>
<td>entrance</td>
<td>60</td>
<td>Scholarships</td>
<td>45</td>
</tr>
<tr>
<td>Physiology</td>
<td>110</td>
<td>School course in Agriculture</td>
<td>78</td>
</tr>
<tr>
<td>Political economy</td>
<td>113</td>
<td>Scientific courses</td>
<td>107</td>
</tr>
<tr>
<td>Poultry Husbandry</td>
<td>89</td>
<td>Sewing</td>
<td>96</td>
</tr>
<tr>
<td>Power House</td>
<td>29</td>
<td>Silviculture</td>
<td>100</td>
</tr>
<tr>
<td>Prescriptions</td>
<td>197</td>
<td>Short courses</td>
<td>81</td>
</tr>
<tr>
<td>Sociology</td>
<td>114</td>
<td>Societies</td>
<td>32</td>
</tr>
<tr>
<td>Sophomore prize declamations.45-122</td>
<td></td>
<td>meetings of</td>
<td>3, 4, 5</td>
</tr>
<tr>
<td>speakers, 1911</td>
<td>220</td>
<td>Tuition charges</td>
<td>42</td>
</tr>
<tr>
<td>Spanish</td>
<td>152</td>
<td>University, charter</td>
<td>19</td>
</tr>
</tbody>
</table>

260
Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>PAGE</th>
<th>Topic</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special courses</td>
<td>78</td>
<td>history</td>
<td>19</td>
</tr>
<tr>
<td>Special students</td>
<td>47</td>
<td>bulletins</td>
<td>35</td>
</tr>
<tr>
<td>Steam Engineering</td>
<td>193</td>
<td>buildings and equipment</td>
<td>29</td>
</tr>
<tr>
<td>Students, catalog of</td>
<td>221</td>
<td>circulars</td>
<td>34</td>
</tr>
<tr>
<td>classification of</td>
<td>254</td>
<td>endowment</td>
<td>19</td>
</tr>
<tr>
<td>number of</td>
<td>253</td>
<td>establishment</td>
<td>19</td>
</tr>
<tr>
<td>standing of</td>
<td>39</td>
<td>location</td>
<td>20</td>
</tr>
<tr>
<td>Studies, quota of</td>
<td>38</td>
<td>object</td>
<td>19</td>
</tr>
<tr>
<td>Structures</td>
<td>185</td>
<td>organization</td>
<td>61</td>
</tr>
<tr>
<td>Summer term</td>
<td>206</td>
<td>Veterinary Science</td>
<td>91</td>
</tr>
<tr>
<td>expenses</td>
<td>208</td>
<td>Wingate Hall</td>
<td>23</td>
</tr>
<tr>
<td>Surveying</td>
<td>182</td>
<td>Winslow Hall</td>
<td>23</td>
</tr>
<tr>
<td>Tau Beta Pi</td>
<td>34</td>
<td>Winter courses</td>
<td>81</td>
</tr>
<tr>
<td>Technology, college of</td>
<td>162</td>
<td>Woodwork</td>
<td>132</td>
</tr>
<tr>
<td>faculty</td>
<td>163</td>
<td>Women, admission of</td>
<td>47</td>
</tr>
<tr>
<td>Text-books</td>
<td>43</td>
<td>Worship, public</td>
<td>38, 69</td>
</tr>
<tr>
<td>Theology, preparation for</td>
<td>107</td>
<td>Young Men’s Christian Association</td>
<td>34</td>
</tr>
<tr>
<td>Theses</td>
<td>40</td>
<td>Young Women’s Christian Association</td>
<td>34</td>
</tr>
<tr>
<td>Torts</td>
<td>161</td>
<td></td>
<td>110</td>
</tr>
<tr>
<td>Treasurer</td>
<td>7</td>
<td>Zoology</td>
<td>31</td>
</tr>
<tr>
<td>Trustees, board of</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>executive committee of</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>