1924

Catalog of the University of Maine, 1924-25

University of Maine

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Calendar

FALL SEMESTER, 1924

September 5-9, Entrance Examinations.
September 9, Tuesday, University opens for Freshmen.
September 12-16, Arrearage Examinations.
September 16, Tuesday, Registration for upper class students 8 A.M. to 5 P.M.
September 17, Wednesday, Classes begin at 8 A.M.
November 11, Tuesday, Armistice Day, a holiday.
November 27, Thursday, Thanksgiving Day, a holiday.
December 12, Friday, Christmas Recess begins 5.05 P.M.
December 30, Tuesday, Christmas Recess ends 8 A.M.

1925

January 30, Friday, Fall Semester ends 5.05 P.M.

SPRING SEMESTER

January 31, Saturday, Registration 8 A.M. to 5 P.M.
February 2, Monday, Spring Semester begins 8 A.M.
February—, Friday, Winter Carnival, a holiday.
February—, Saturday, Winter Carnival, a holiday.
March 27, Friday, Spring Recess begins 5.05 P.M.
April 6, Monday, Spring Recess ends 8 A.M.
May 22-29 (Inclusive) Final Examinations.
May 30, Saturday, Memorial Day, a holiday.
May 31-June 4 (Inclusive), Military Camp.
June 2-5, Entrance Examinations.
June 5, Friday, Class Day.
June 6, Saturday, Alumni Day.
June 7, Sunday, Baccalaureate Address.
June 8, Monday, Commencement, 9.30 A.M.

SUMMER SESSION

June 29, Monday, Registration, 8 A.M. to 5 P.M.
June 30, Tuesday, Classes begin 7.30 A.M.
August 7, Friday, Summer Session ends 12 M.
FALL SEMESTER

September 11-15, Entrance Examinations.
September 15, Tuesday, University opens for freshmen.
September 18-22, Arrearage Examinations.
September 22, Tuesday, Registration for upper class students, 8 A.M. to 5 P.M.
September 23, Wednesday, Classes begin 8 A.M.
November 11, Wednesday, Armistice Day, a holiday.
November 26, Thursday, Thanksgiving Day, a holiday.
December 18, Friday, Christmas Recess begins, 5.05 P.M.

1926

January 5, Tuesday, Christmas Recess ends 8 A.M.
February 5, Friday, Fall Semester ends 5.05 P.M.
February 6, Saturday, Registration, 8 A.M. to 5 P.M.
February Friday, Winter Carnival, a holiday.
February Saturday, Winter Carnival, a holiday.
March 26, Friday, Spring Recess begins 5.05 P.M.
April 5, Monday, Spring Recess ends 8 A.M.
May 21-28 (inclusive), Final Examinations.
June 6-June 11 (inclusive), Military Camp.
May 31, Monday, Memorial Day, a holiday.
June 8-12, Entrance Examinations.
June 11, Friday, Class Day.
June 12, Saturday, Alumni Day.
June 13, Sunday, Baccalaureate Address.
June 14, Monday, Commencement, 9.30 A.M.
Board of Trustees

Col. Frederic Hastings Strickland, M.A., President  
Term expires April 28, 1929  

Thomas Edward Houghton, Clerk,  
Term expires April 28, 1927  

Ora Gilpatrick  
Term expires June 19, 1925  

Charles Swan Bickford, B.S.  
Term expires October 1, 1926  

Hosea Ballou Buck, C.E.  
Term expires June 17, 1927  

Rex Wilder Dodge, B.S.  
Term expires September 30, 1928  

Edward Bailey Draper, B.A., LL.B.  
Term expires April 22, 1928  

Augustus Orloff Thomas, B.Ed., B.Ph., Ph.D., ex-officio  

Hon. Harmon Gustavus Allen  
Term expires June 17, 1931  

Executive Committee, Strickland, Buck, Draper

Bangor  
Fort Fairfield  
Houlton  
Belfast  
Bangor  
Portland  
Bangor  
Augusta  
Sanford
Officers of Administration

OF THE UNIVERSITY

CLARENCE COOK LITTLE, President. 2A Alumni Hall; Campus*
JAMES NORRIS HART, Dean. 9 Alumni Hall; 123 Main Street
CAROLINE COLVIN, Dean of Women. 12 Fernald Hall; University Inn
GEORGE DAVIS CHASE, Dean of Graduate Students. 140 Arts and Sciences Building; 143 Main Street
CHARLES JOHN DUNN, Treasurer Emeritus. 114 Main Street
FREDERICK SHAW YOUNGS, Treasurer. 7 Alumni Hall; 35 Blackstone Street, Bangor
JAMES ADRIAN GANNETT, Registrar. 2 Alumni Hall; 166 Main Street
EDWARD HAVENER KELLEY, Comptroller. 5 Alumni Hall; 13 Pond Street
IRVING PIERCE, Accountant. 4 Alumni Hall; 34 Sixth Street, Old Town
ADDIE MATILDA WEADE, Assistant Registrar. 2 Alumni Hall; Veazie

MARY ETTA RUSSELL, Secretary to the President. 2A Alumni Hall; 85 Main Street

OF THE COLLEGES AND EXPERIMENT STATION

JAMES STACY STEVENS, Dean of the College of Arts and Sciences. 100 Arts and Sciences Building, 175 Main Street
HAROLD SHERBURNE BOARDMAN, Dean of the College of Technology. 12 Wingate Hall, 172 Main Street
LEON STEPHEN MERRILL, Dean of the College of Agriculture. 16 Winslow Hall, Campus
WARNER JACKSON MORSE, Director of the Maine Agricultural Experiment Station. Holmes Hall, 356 College Road

OF THE DEPARTMENTS

AGRONOMY. Professor Simmons, 26 Winslow Hall, 4 Gilbert Street
AGRICULTURAL ECONOMICS AND FARM MANAGEMENT. Professor Merchant, 36 Winslow Hall, 35 Oak Street
AGRICULTURAL EDUCATION. Professor Hill, 38 Winslow Hall, 162 College Road

*Offices and residences
ANIMAL INDUSTRY. Professor Corbett, 14 Winslow Hall, Campus
BACTERIOLOGY AND VETERINARY SCIENCE. Professor Russell, 13 Winslow Hall, 85 Main Street
BIOLOGICAL AND AGRICULTURAL CHEMISTRY. Professor Merrill, 15 Winslow Hall, 178 Main Street
BIOLOGY. Miss Woodbridge, 24 Coburn Hall, University Inn
BIOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Gowen, Holmes Hall, 13 Park Street
CHEMISTRY. Professor Brautlecht, 211 Aubert Hall, 167 Main Street
CHEMISTRY (AGRICULTURAL EXPERIMENT STATION). Professor Bartlett, Holmes Hall, 148 College Road
CIVIL ENGINEERING. Professor Sprague, 25 Wingate Hall, 180 Main Street
ECONOMICS AND SOCIOLOGY. Professor Ashworth, 220 Arts and Sciences Building, 94 North Main Street
EDUCATION. Professor Pollard, 28 Fernald Hall, 12 Park Street
ELECTRICAL ENGINEERING. Professor Barrows, 21 Lord Hall, 36 Myrtle Street
ENGINEERING DRAWING. Professor Grover, 38 Wingate Hall, 22 Myrtle Street
ENGLISH. Professor Ellis, 230 Arts and Sciences Building, 29 Park Street
ENTOMOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Patch, Holmes Hall, College Road
FORESTRY. Professor Briscoe, 24 Winslow Hall, 380 College Road
FRENCH. Professor Segall, 330 Arts and Sciences Building, 50 Main Street
GEOLGY. Professor Merrill, 15 Winslow Hall, 178 Main Street
GERMAN. Professor Drummond, 325 Arts and Sciences Building, 61 Bennoch Street
GREEK LANGUAGE AND LITERATURE. Professor Huddilston, 28 Library, 193 Main Street
HISTORY. Professor Colvin, 150 Arts and Sciences Building, University Inn
HOME ECONOMICS. Professor McGinnis, 4 The Maples, North Hall
HORTICULTURE. Professor Sweetser, 34 Winslow Hall, 80 Forest Avenue
LATIN. Professor Chase, 140 Arts and Sciences Building, 143 Main Street
MATHEMATICS AND ASTRONOMY. Professor Willard, 130 Arts and Sciences Building, 142 Bennoch Street
MECHANICAL ENGINEERING. Professor Sweetser, 20 Lord Hall, 109 Main Street
MECHANICS AND DRAWING. Professor Weston, 15 Wingate Hall, College Road
MILITARY SCIENCE. Major Glover, Coburn Hall, 57 Bennoch Street
MUSIC. Director Sprague, 350 Arts and Sciences Building, 217 Union Street, Bangor
PHILOSOPHY. Professor Taylor, 125 Arts and Sciences Building, University Inn

PLANT PATHOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Folsom, Holmes Hall, 102 North Main Street

PHYSICAL EDUCATION. Professor Kanaly, Alumni Hall, 123 Main Street

PHYSICS. Professor Fitch, 200 Aubert Hall, 32 College Road

POULTRY HUSBANDRY. Professor Corbett, 14 Winslow Hall, Campus

PSYCHOLOGY. Professor Halverson, 120 Arts and Sciences Building, 104 North Main Street

PUBLIC SPEAKING. Associate Professor Bailey, 240 Arts and Sciences Building, 11 Oak Street

SPANISH AND ITALIAN. Professor Peterson, 23 Fernald Hall, 14 Pond Street

OF THE DORMITORIES

Kate Clark Estabrooke, Superintendent of Mt. Vernon House
Mattie Allen Munson, Superintendent of Balentine Hall
Edith Mabel Chase, Superintendent of Hannibal Hamlin and Oak Halls
Carrie Edith Weeks, Superintendent of the University Inn
Eva Elizabeth Jones, Assistant to the Superintendent of Balentine Hall
Gertrude Hayes, Assistant to the Superintendent of Balentine Hall
*Faculty of Instruction*

Clarence Cook Little, President
B.A., Harvard, 1910; M.S., 1912; S.D., 1914; LL.D., New Hampshire, 1924

Lucius Herbert Merrill, Professor of Biological and Agricultural Chemistry.
B.S., Maine, 1883; Sc.D., 1908

James Norris Hart, Dean of the University and Professor of Mathematics and Astronomy.
B.C.E., Maine, 1885; C.E., 1890; M.S., Chicago, 1897; Sc.D., Maine, 1908; Ph.D., 1922

Fremont Lincoln Russell, Professor of Bacteriology and Veterinary Science.
B.S., Maine, 1885; V.S., New York College of Veterinary Surgeons, 1886

James Stacy Stevens, Dean of the College of Arts and Sciences, Professor of Physics, and Director of the Summer Session.
B.S., Rochester, 1885; M.S., 1888, and Syracuse, 1889; LL.D., Rochester, 1907; Litt.D., Maine, 1922

John Homer Huddleston, Professor of the Greek Language and Literature, and Lecturer on Art History.
B.A., Baldwin, 1890, and Harvard, 1893; Ph.D., Munich, 1897

Jacob Bernard Segall, Professor of French
B.S., and B.L., Jassy, 1884; Ph.D., Columbia, 1893

Harold Sherburne Boardman, Dean of the College of Technology and Head of the Department of Civil Engineering.
B.C.E., Maine, 1895; C.E., 1898; D.Eng., 1922

George Davis Chase, Dean of Graduate Students and Professor of Latin.
B.A., Harvard, 1889; M.A., 1895; Ph.D., 1897

Caroline Colvin, Dean of Women and Professor of History.
B.A., Indiana, 1893; Ph.D., Pennsylvania, 1901

Charles Partridge Weston, Professor of Mechanics and Drawing.
B.C.E., Maine, 1896; C.E., 1899; M.A., Columbia, 1902

John Manvers Briscoe, Professor of Forestry.
M.F., Yale, 1909

Leon Stephen Merrill, Dean of the College of Agriculture and Director of Agricultural Extension Service.
M.D., Bowdoin, 1889; Sc.D., Maine, 1922

*Arranged in groups in order of seniority of appointment*
George Edward Simmons, Professor of Agronomy.
B.S., Ohio Northern, 1902; M.S., 1905; B.Sc., Ohio State, 1909; D.Sc.,
Ohio Northern, 1922

William Edward Barrows, Professor of Electrical Engineering.
B.S., Maine, 1902; E.E., 1908

Lamert Seymour Corbett, Professor of Animal Industry.
B.Sc., Massachusetts Agricultural College, 1909; M.S., Kentucky, 1913

William Jordan Sweetser, Professor of Mechanical Engineering.
B.S., Massachusetts Institute of Technology, 1901

Roy Merle Peterson, Professor of Spanish and Italian.
B.A., Coe College, 1906; M.A., Harvard, 1910; Ph.D., 1912; F.A.A.R.

Robert Rutherford Drummond, Professor of German.
B.S., Maine, 1905; Ph.D., Pennsylvania, 1909

Herbert Staples Hill, Professor of Agricultural Education.
B.A., Bowdoin, 1905

Harley Richard Willard, Professor of Mathematics.
B.A., Dartmouth, 1899; M.A., 1902 and Yale, 1910; Ph.D., 1912

John H Ashworth, Professor of Economics and Sociology.
B.A., Emory and Henry College, 1906; Ph.D., Johns Hopkins, 1914

Charles Andrew Braultlecht, Professor of Chemistry.
Ph.B., Yale, 1906; Ph.D., 1912

Harold Milton Ellis, Professor of English.
B.A., Maine, 1907; M.A., 1908 and Harvard, 1909; Ph.D., 1913

Herman Pittee Sweetser, Professor of Horticulture.
B.S., Maine, 1910

Raymond Lowrey Walkley, Librarian.
B.A., Yale, 1909; M.A., 1910; B.L.S., New York State Library School,
1913

Archer Lewis Grover, Professor of Engineering Drawing.
B.M.E., Maine, 1899; B.S., 1902

Embert Hiram Sprague, Professor of Civil Engineering.
B.S., Dartmouth, 1900

Albert Lewis Fitch, Professor of Physics.
B.A., Albion College, 1911; M.A., 1912; Ph.D., Michigan, 1916

Luther John Pollard, Professor of Education.
B.A., Lawrence College, 1910; M.A., Wisconsin, 1915

Henry Marc Halverson, Professor of Psychology.
Ph.B., Wisconsin, 1915; M.A., Iowa, 1918; Ph.D., Clark, 1922

William Sentman Taylor, Professor of Philosophy.
B.S., Gettysburg, 1916; M.A., Harvard, 1920; M.S., Wisconsin, 1923;
Ph.D., Harvard, 1921

George Barrett Glover, Jr., Professor of Military Science and Tactics.
Major of Infantry, U. S. Army

Frank Maurice Kanaly, Professor of Physical Training.
FACULTY

Fred Mansfield Brice, Professor of Physical Training.
O.D., Massachusetts School of Optometry, 1912

Walter Frank Adams, Captain, Infantry, (D.O.L.)
Professor of Military Science and Tactics.

Joseph Louis Ready, Captain, Infantry, (D.O.L.)
Professor of Military Science and Tactics.

Andrew Jackson Nichols, First Lieutenant. Infantry, (D.O.L.)
Professor of Military Science and Tactics.

James Adrian Gannett, Registrar.
B.S., Maine, 1908

François Joseph Kueny, Professor of French.
B. és L., University of Paris, 1897; L. és L., Besançon, 1901

John William Draper, Professor of English.
B.A., New York University, 1914; M.A., 1915; M.A., Harvard, 1918;
Ph.D., 1920

Esther McGinnis, Professor of Home Economics.
B.Sc., Ohio State, 1915; M.S., Columbia, 1923

Phineas Wescott Whiting, Professor of Biology.
B.A., Harvard, 1911; M.S., Pennsylvania, 1912; Ph.D., 1916

Charles Henry Merchant, Professor of Agricultural Economics and
Farm Management.
B.S., Cornell, 1920; M.S., 1922

*Irving Hill Blake, Associate Professor of Biology.
B.A., Bates, 1911; M.A., Brown, 1912

Benjamin Calvin Kent, Associate Professor of Mechanical Engineering
and Faculty Manager of Athletics.
B.S., Maine, 1912

Arthur St. John Hill, Associate Professor of Electrical Engineering.
E.E., Polytechnic Institute of Brooklyn, 1911

Alpheus Crosby Lyon, Associate Professor of Civil Engineering.
B.S., Maine, 1902; B.S., Massachusetts Institute of Technology, 1904;
C.E., Maine, 1913

Bertrand French Brann, Associate Professor of Chemistry.
B.S., Maine, 1909; M.S., 1911; M.S., Massachusetts Institute of Tech-
nology, 1912

Ava Harriet Chadbourne, Associate Professor of Education.
B.A., Maine, 1915; M.A., 1918; Columbia: 1919

*J Howard Toelle, Associate Professor of Government.
B.A., Indiana, 1913; LL.B., 1914; M.A., 1916

*Charles Howard Batchelder, Associate Professor of Biology.
B.A., New Hampshire State College, 1913; M.S., 1915

*On leave of absence.
Mark Bailey, Associate Professor of Public Speaking.
  B.A., Yale, 1915; M.A., Michigan, 1917

Harold Walter Leavitt, Associate Professor of Civil Engineering.
  B.S., Maine, 1915; C.E., 1918; M.S., 1921

Albert Ames Whitmore, Associate Professor of History and Government.
  B.S., Maine, 1906; M.A., 1917

*Herbert DeWitt Carrington, Associate Professor of German.
  Ph.B., Yale, 1884; Ph.D., Heidelberg, 1897

Noah Rosenberger Bryan, Associate Professor of Mathematics.
  B.A., Pennsylvania State, 1913; M.A., Pennsylvania, 1918; Ph.D.,
  Columbia, 1921

Llewellyn Morse Dorsey, Associate Professor of Animal Industry.
  B.S., Maine, 1916; M.S., 1923

Albert Morton Turner, Associate Professor of English.
  B.A., Harvard, 1912; M.A., 1914; Ph.D., 1920

Walter Joseph Creamer, Associate Professor of Electrical Engineering
  and Assistant to the Dean of the College of Technology.
  B.S., Maine, 1918; E.E., 1921; B.A., 1923

Paul Decosta Bray, Associate Professor of Chemistry.
  B.S., Maine, 1914; Ch.E., 1918

Pearl Stuart Greene, Associate Professor of Home Economics.
  B.A., Northwestern, 1909; B.S., Lewis Institute, Chicago, 1914; M.A.,
  Columbia, 1923

Elmer Reeve Hitchner, Associate Professor of Bacteriology.
  B.S., Pennsylvania State, 1915; M.S., 1916

William Henry Eyster, Associate Professor of Biology.
  B.A., Bucknell, 1914; M.A., 1915; Ph.D., Cornell, 1920

Harry Edward Farnsworth, Associate Professor of Physics.
  B.A., Ripon, 1918; M.A., Wisconsin, 1921; Ph.D., 1922

Adelbert Wells Sprague, Director of Music.
  B.S., Maine, 1905; M.A., Harvard, 1907

Harry Woodbury Smith, Assistant Professor of Biological and Agri-
cultural Chemistry.
  B.S., Maine, 1909; M.S., 1922

Benjamin Coe Helmick, Assistant Professor of Agronomy.
  B.S., Iowa, 1914; M.S., Cornell, 1915

Inez Bowler, Assistant Librarian.
  B.A., Colby, 1907; B.S., Simmons, 1910

Bertha Josephine Howard, Assistant Professor of Economics and
Sociology.
  B.A., Mount Holyoke, 1910; M.A., University of Michigan, 1917

*On leave of absence.
CHAUNCEY WALLACE LORD CHAPMAN, Assistant Professor of Forestry.
B.S., Maine, 1914; M.S., 1921

JOHN HENRY KIDNEY, Assistant Professor of Military Science and Tactics.
Warrant Officer, U. S. Army

LOUISE BANCROFT, Assistant Professor of Home Economics.
B.S., Simmons, 1920

STANLEY MOORE WALLACE, Assistant Professor of Physical Training and
Councilor of Freshmen.

JAMES STROTHARD BROOKS, Assistant Professor of Engineering Drawing.

WESTON SUMNER EVANS, Assistant Professor of Civil Engineering.
B.S., Maine, 1918; M.S., 1923

LEIGH PHILBROOK GARDNER, Assistant Professor of Animal Industry.
B.S., Maine, 1920; M.S., 1923

WARREN STANHOPE LUCAS, Assistant Professor of Mathematics.
B.A., Maine, 1914; M.A., 1922

HARRY DEXTER WATSON, Assistant Professor of Mechanical Engineering.
B.S., Maine, 1920

HAROLD CHANDLER WHITE, Assistant Professor of Chemistry.
B.S., Maine, 1915; C.E., Maine, 1921

JOSEPH THOMAS MURPHY, Assistant Professor of Physical Training.

CLARENCE PAUL HOTSON, Assistant Professor of English.
B.S., Cornell, 1921; M.A., Harvard, 1923

CORNELIUS CICERO JANZEN, Assistant Professor of Economics.
B.A., Tabor, 1913; M.A., Kansas, 1914

WILLIAM IRVING ZETTLER, Assistant Professor of English.
B.A., Williams, 1921; M.A., Harvard, 1922

WALTER FRENCH, Assistant Professor of German.
B.A., Ohio State, 1912; M.A., 1915; Ph.D., 1918

PERCIE TROWBRIDGE HOPKINS, Assistant Professor of English.
B.A., Smith, 1917; M.A., 1920; M.A., Radcliffe, 1923; Ph.D., 1924

CARL EVERETT OTTO, Assistant Professor of Chemistry.
B.A., Cincinnati, 1916; M.A., 1920; Ph.D., 1922

CHARLES MORTIMER DANIEL, Assistant Professor of Mechanical
Engineering.
B.S., New York, 1920; M.E., 1921

EVERETT WILLARD DAVEE, Instructor in Mechanical Engineering.

*MARION STEPHANIE BUZZELL, Instructor in French.
B.A., Maine, 1914; M.A., 1916

FRANCES ELIZABETH ARNOLD, Instructor in Spanish.
B.A., Maine, 1910; M.A., 1923

EVERETT JOSHUA FELKER, Instructor in Civil Engineering.

*On leave of absence.
HARRY ROY PERKINS, Instructor in Mechanical Engineering.

HAROLD CLAYTON SWIFT, Instructor in Agronomy.
B.S., Maine, 1918; M.S., 1923

CHARLES FLOYD WHITCOMB, Instructor in French.

MARK BRADEN ASHLEY, Staff Sergeant, D.E.M.L., Instructor in Military Science and Tactics.
Sergeant, U. S. Army.

FRANK SWAN BEALE, Instructor in Mathematics.
B.S., Maine, 1921; M.S., 1923

HOWARD LLOYD FLEWELLING, Instructor in English.
B.A., Dartmouth, 1921

EVERETT LOUIS ROBERTS, Instructor in Electrical Engineering.
B.S., Maine, 1920

WALTER WENTWORTH WIGGIN, Instructor in Horticulture.
B.S., New Hampshire State, 1921

IRVING TREFETHEN RICHARDS, Instructor in English.
B.A., Bowdoin, 1920

WALTER WHITMORE CHADBOURNE, Instructor in Economics and Sociology.
B.A., Maine, 1920; M.B.A., Harvard, 1922

EDWIN DILLMON HULL, Instructor in Biology.
B.S., Chicago, 1914; M.S., Chicago, 1916

HELEN*WOODBRIDGE, Instructor in Biology.
B.A., Mount Holyoke, 1920; M.S., Washington, 1922

CARL ALONZO MENDUM, Instructor in English.
B.A., Harvard, 1918; M.A., 1923

EDWARD BAYS, Instructor in Military Science and Tactics.
Sergeant, D.E.M.L.; U. S. Army

ALWARD EMBURY BROWN, Instructor in Physics.
B.A., Albion, 1917; B.S. (Electrical Engineering), Michigan, 1918

ROSE MARY DAVIS, Instructor in English.
B.S., Columbia, 1922

DWIGHT BURGESS DEMERITT, Instructor in Forestry.
B.S., Maine, 1922; M.F., Yale, 1923

HOWARD THEODORE ENGSTROM, Instructor in Mathematics.
B.S., Northeastern University, 1922

EDUARDO GOMEZ-DURAN, Instructor in Spanish.
Ph.B., National University of Bogotá, 1910; B.A., Valparaiso, 1920

HOWE WIGGIN HALL, Instructor in Animal Industry.
B.S., Maine, 1914

STANLEY GILBERT HALL, Instructor in Engineering Drawing.
B.S., Maine, 1923

ALBERT HENRY IMLAH, Instructor in History.
B.A., British Columbia, 1922; M.A., Clark, 1923

LYLE CLAYTON JENNESS, Instructor in Mathematics.
B.S., New Hampshire, 1922

RUDOLPH MACY, Instructor in Chemistry.
B.S., New York University, 1921; M.S., 1922; Ph.D., 1923

DORIS FRANCES TWITCHELL, Instructor in Education.
B.A., Maine, 1923

THEODORE SHIRLEY CURRIER, Instructor in History and Government.
B.A., Maine, 1924

RENA CAMPBELL, Instructor in Home Economics.
B.S., Maine, 1921

ALVIN CHRISTIAN EURICH, Instructor in Public Speaking.
B.A., Northwestern, 1924

GERALD FRANCIS GOGGIN, Instructor in Chemistry.
B.S., New Hampshire, 1922; M.S., 1924

WILLARD GREER, Instructor in Chemistry.
B.S., Kalamazoo, 1921; M.A., Clark, 1922; Ph.D., 1924

GUY EBBEN GRIFFIN, Instructor in Civil Engineering.
B.S., Maine, 1924

EDWIN HAROLD HADLOCK, Instructor in Mathematics.
B.A., Maine, 1924

PHILIP AINSLEE HARRIMAN, Instructor in Biology.
B.A., Maine, 1924

eva elizabeth jones, Instructor in Biology.
B.A., Radcliffe, 1920; M.A., Maine, 1924

HELEN ANNA LENYEL, Instructor in Physical Education for Women.
PAUL EDMOND MARTIN, Instructor in Physics.
B.A., Nebraska Wesleyan, 1922; M.S., Cornell, 1924

WILBUR ERNEST MESERVE, Instructor in Electrical Engineering.
B.S., Maine, 1923

HARVEY DANIEL MILLER, Instructor in English.
B.A., Bowdoin, 1917

COLBY WESTON STEWARD, Instructor in Mechanical Engineering.
B.S., Maine, 1924

FREDERICK SHAW YOUNGS, Lecturer in Economics.
B.S., Maine, 1914

HENRIETTA MARGUERITE STARBIRD, Assistant in the Library.
B.A., Colby, 1923; B.S., Simmons, 1924

ALICE GERTRUDE SMALL, Clerk in the Library.

ALEXANDER BRAUN CUTLER, Assistant in Chemistry.
B.S., Maine, 1923

PAULINE PERKINS, Assistant in Chemistry.
B.A., Wellesley, 1920

HERBERT BURR ABBOTT, Mechanician in the Mechanical Engineering Department.

LEO DAY, Assistant in State Highway Laboratory.
Faculty of Extension Service

(COLLEGE OF AGRICULTURE)

Leon Stephen Merrill, Director.
M.D., Bowdoin, 1889; D.Sc., Maine, 1922

Eliza B. Atherton, Home Demonstration Agent, Somerset County.

Raymond Neale Atherton, County Agricultural Agent, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1920

Frank Given Averill, Agricultural Editor.
B.A., Bowdoin, 1923

Verne Curtis Beverly, County Agricultural Agent, Aroostook County.
B.S., Maine, 1920

Edith Louise Beckett, Home Demonstration Agent, Hancock County.
B.S., Maine, 1924

Harry Elmer Bickford, County Agricultural Agent, Hancock County.

Edna Mansfield Cobb, Clothing Specialist.

Della May Connor, Home Demonstration Agent, Cumberland County.

Charles Edward Crossland, Executive Secretary to Director of Extension Service.
B.S., Maine, 1917

Clarence Albert Day, County Agricultural Agent, Kennebec County.

Arthur Lowell Deering, County Agent Leader.
B.S., Maine, 1912

Norman Sylvester Donahue, County Agricultural Agent, Waldo County.
B.S., Maine, 1915

Gerald Cobb Dunn, County Agricultural Agent, Somerset County.
B.S., Maine, 1923

Mary Gilmore Flint, Home Demonstration Agent, Washington County.
B.S., Columbia, 1920

Albert Kinsman Gardner, Crops Specialist.
B.S., Maine, 1910

Claire Elizabeth Herrick, Home Demonstration Agent, Knox-Lincoln Counties.
B.S., Simmons, 1921

Flora Adelaide Howard, Home Demonstration Agent, Piscataquis County.
B.S., Maine, 1917

Mary Eleanor Jackson, Home Economics Extension Specialist.
B.S., Maine, 1920

Rosalind May Jewett, State Home Demonstration Agent Leader.
B.S., Colby, 1910
Maurice Daniel Jones, Farm Management Demonstrator.  
B.S., Maine, 1912

Charles Carlyle Larrabee, County Agricultural Agent, Piscataquis County.

Leon Otis Marshall, County Agricultural Agent, Penobscot County.  
B.S., Maine, 1921

Arra Sutton Mixter, Assistant State Club Leader.

Estelle Nason, Home Demonstration Agent, Waldo County.  
B.S., Maine, 1922

Hazel Elizabeth Palmer, Home Demonstration Agent, York County.  
B.S., Connecticut Agricultural College, 1924

Grace Lavinia Pennock, Home Demonstration Agent, Kennebec County.  
B.A., Boston, 1912

James Hayes Pulsifer, County Agricultural Agent, Franklin County.

Thelma May Randlett, Home Demonstration Agent, Androscoggin and Sagadahoc Counties.

Donald Winslow Reed, County Agricultural Agent, York County.  
B.S., Maine, 1922

Harrison Lambert Richardson, County Agricultural Agent, Washington County.  
B.S., Maine, 1924

Wilfred Sherman Rowe, County Agricultural Agent, Cumberland County.

Lester Hale Shibles, State Club Leader.  
B.A., Colby, 1915

Clinton Edgar Small, Assistant County Agricultural Agent, Aroostook County.  
B.S., Maine, 1923

Beulah Adeline Snow, Home Demonstration Agent, Penobscot County.

Marjorie Prince Symonds, Home Demonstration Agent, Franklin County.

Richard Foster Talbot, Specialist in Dairy Husbandry.  
B.S., Maine, 1907

Roy Frank Thomas, County Agricultural Agent, Oxford County.  
B.S., Maine, 1917

Myron Edmund Watson, Specialist in Forestry.  
B.S., Maine, 1922

Ralph Carlton Wentworth, County Agricultural Agent, Knox and Lincoln Counties.  
B.S., Maine, 1918

Oscar Milton Wilbur, Specialist in Poultry Husbandry.  
M.S., Maine, 1917
Faculty of Investigation

(The Maine Agricultural Experiment Station)

Warner Jackson Morse, Director.
B.S., Vermont, 1898; M.S., 1903; Sc.D., 1923; Ph.D., Wisconsin, 1912

Alice Woods Averill, Laboratory Assistant.

Louise Mary Baker, Laboratory Assistant.

James Monroe Bartlett, Chemist.
B.S., Maine, 1880; M.S., 1883

Reiner Bonde, Assistant Plant Pathologist.
B.S., Minnesota, 1922

Mildred Rebecca Covell, Assistant in Biology.

Perley Downing, Superintendent of Aroostook Farm.

Donald Folsom, Plant Pathologist.
B.A., Nebraska, 1912; M.A., Minnesota, 1914; Ph.D., 1917

Marjorie Eunice Gooch, Assistant in Biology.
B.S., Maine, 1919; M.S., 1922

John Whittemore Goven, Biologist.
B.S., Maine, 1914; M.S., 1915; Ph.D., Columbia, 1917

Margaret Martha Honey, Clerk.

Charles Clyde Inman, Clerk.

Iva Angerona Merchant, Scientific Aid.
B.S., Maine, 1923

Mary Leonice Norton, Clerk.

Edith Marion Patch, Entomologist.
B.S., Minnesota, 1901; M.S., Maine, 1910; Ph.D., Cornell, 1911

Karl Sax, Biologist.

Wellington Sinclair, Superintendent of Highmoor Farm.

Hugh Burnice Smith, Assistant Biologist.
B.S., Colorado Agricultural, 1919; M.S., Michigan Agricultural, 1921

Elmer Robert Tobe, Associate Chemist.
B.S., Maine, 1911; M.S., 1917; Ch.E., 1920

Charles Harry White, Assistant Chemist.
Ph.C., Maine, 1897

Emmeline Des-Neige Wilson, Laboratory Assistant.
Faculty Committees

Fall 1925

Administration—President and Deans
Alumni Relations—Hart, Clark, Sweetser, H. P.
Athletics—Grover, Brooks, Halverson, Lyon, Pollard, Sprague, E. H.
Auditing—Merrill, L. H., Evans, Helmick, Youngs
Chapel—Kent, Ellis, Halverson, Peterson, Sprague, A. W., Whitmore, Johnson, C. E. (Student member)
Health—Hitchner, Eyster, Glover, Kanaly, McGinnis, Russell
Honors—Sweetser, H. P., Brann, Chadbourne, A. H., Whiting
Military—Glover, Boardman, Dorsey, Wallace
Physical Training—Kanaly, Brice, Corbett, Kent, Lengyel, Murphy, Wallace
Publicity—Gannett, Crossland, Huddilston, Pollard
Rules—Peterson, Corbett, Smith, Taylor
Schedule—Weston, Gannett, The Deans
Secondary School Relations—Hart, Arnold, Chase, Drummond, Ellis, Hill, H. S., Pollard
Social Affairs—Gannett, Chadbourne, A. H., Colvin, Kueny, Sprague, E. H., Taylor, Woodbridge
Student Activities—(Non-Athletic)—Walkley, Bailey, Briscoe, Colvin, Dorsey, Ellis, Pollard, Sprague, A. W., Wallace, Weston, Youngs
Student's Use of English—Ellis, Boardman, Briscoe, Chase, Creamer, Drummond, Hill, H. S., Merrill, L. S., Stevens, Weston
Women Students—Colvin, Bowler, Chadbourne, Greene, Howard, Lengyel, McGinnis
General Information

HISTORY

The University of Maine is a part of the public educational system of the State. It was established as a result of the Morrill Act approved by President Lincoln, July 2, 1862. The State of Maine accepted the conditions of this act in 1863. In 1865 the State created a corporation to administer the affairs of the college. The original name of the institution was the State College of Agriculture and the Mechanic Arts. The name was changed to the University of Maine in 1897.

The first Board of Trustees was composed of 16 members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Board members. At the present time seven members of the Board are appointed by the Governor of the State, with the advice and consent of the Council, for a term of seven years. One member is appointed for three years by the Governor upon the nomination of the Alumni Association. The Commissioner of Education is ex-officio a member of the Board.

The institution opened September 21, 1868, with a class of 12 members and a faculty of two teachers. By 1871 four curricula had been arranged,—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences.

The Maine Agricultural Experiment Station was established as a division of the university by act of the Legislature of 1887, as a result of the passage by Congress of the Hatch Act. It succeeded the Maine Fertilizer Control and Agricultural Experiment Station which had been established in 1885.

The College of Law was opened in 1898. It was an integral part of the institution and until the year 1917 occupied quarters at the corner of Union and Second streets in Bangor. Since that time it has been located on the campus at Orono. It was abolished in 1920.

Graduate instruction has been given by various departments for many years. The first Master's degree was conferred in 1881. There is no provision for graduate work in advance of that required for the Master's degrees.

Beginning with 1902, a Summer Term has been held annually, consisting at first of five weeks, but now of six. It is designed for teachers
BUILDINGS

in secondary schools and for college students who desire to take advantage of its opportunities, and it also gives some courses for those who seek an opportunity to make up entrance credits. The departments usually offering courses are Biology, Chemistry, Economics and Sociology, Education, English, French, German, History, Latin, Mathematics and Astronomy, Physics, Psychology, and Spanish.

The university is coeducational, women having been admitted since 1872, in compliance with special legal enactment.

LOCATION

The university is located in Orono, an attractive town of 3,500 population, with good schools and three churches. The campus of 370 acres borders the Stillwater River, a branch of the Penobscot, and is of great beauty.

Orono is on the main line of the Maine Central Railroad, eight miles east of Bangor, half way between Kittery, the most southerly town in the State on the Maine Central Railroad, and Fort Kent, the most northerly town in the State on the Bangor and Aroostook Railroad. It is not far from the center of population of the State. In addition to steam railroad connection, there is half-hour trolley service to Bangor, nine miles, and Old Town, three miles from the campus. Bangor is the third city of the State in population and an important business center. The location of the university gives students who care to do so an opportunity to avail themselves of its social, religious, and other advantages. Old Town is a prosperous manufacturing city with about 7,000 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

Balentine Hall.—The Legislature of 1913 made an appropriation for the erection of one wing of a women's dormitory. This was completed September 1, 1914. The Legislature of 1915 made an appropriation for completing the building. The name was given in honor of Elizabeth Abbott Balentine, Secretary and Registrar of the university from 1895 to 1913. It contains accommodations for 110 women.

Hannibal Hamlin Hall.—This is a men's dormitory completed in 1911. It contains four stories and a concrete basement. It was named for the Honorable Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees. It will accommodate 156 students.

Mount Vernon House.—This is a wooden building, remodeled in 1898, and is a dormitory for women. It is a three story building and will accommodate 36 students.
North Hall.—This building is used by the Home Economics Department for a Practice House as required under the Smith-Hughes law for teacher training. It is a two story frame house located on the campus. The faculty and seniors of the department reside here during the academic year.

Oak Hall.—This building was named for the Honorable Lyndon Oak, of Garland, a long-time member and president of the Board of Trustees. It is a four story building, erected in 1871, and has 48 rooms for students.

University Inn.—This is a wooden building, located in the village of Orono, which the university has leased for a term of years. It is occupied chiefly by instructors and has accommodations for fifty persons.

Alumni Hall.—This building was erected in 1900 and was given its name because part of the funds required for its erection were subscribed by the alumni of the university. It contains the gymnasium, chapel, and administrative offices.

Arts and Sciences Building.—The State Legislature of 1923 appropriated a sum of money for the construction of a building for the College of Arts and Sciences. It consists of 46 rooms which are used for recitations, conference rooms, and offices. They include a psychology laboratory and an accounting room.

Aubert Hall.—This is a four story building including a high basement. It was named in honor of the late Alfred Bellamy Aubert, Professor of Chemistry from 1874 to 1910. It is used by the Departments of Chemistry and Physics.

Coburn Hall.—This building contains the Department of Biology and the museum. It was named for ex-Governor Abner Coburn, of Skowhegan, a former president of the Board of Trustees, and benefactor of the university.

Maine Christian Association Hall.—This building is used for the Maine Christian Association. On the first floor are a large assembly room, a reading room, and an office for the secretary. On the second floor are offices for the various university organizations, and on the third floor are rooms for students.

Fernald Hall.—This is the oldest building on the campus and was erected for the Department of Chemistry. It now contains the Departments of Spanish and Italian, Education, Mathematics, and the University Store. It was named in honor of ex-President Merritt C. Fernald.
HOLMES HALL.—This building contains the offices and laboratories of the Maine Agricultural Experiment Station. It is a two story building in addition to a basement. It was named for Dr. Ezekiel Holmes, of Winthrop.

LIBRARY BUILDING.—The Library Building is of stone, two stories above a basement, and surmounted by a dome. For its erection and furnishing, Mr. Andrew Carnegie gave $55,000, and the Hallowell Granite Works furnished the granite at a price that was equivalent to a gift of several thousand dollars. The stacks, which are in the rear of the main building, contain shelf room for 60,000 volumes.

LORD HALL.—This building was erected for the Departments of Electrical Engineering and Mechanical Engineering. It is two stories in height and contains recitation rooms, laboratories, shops, drawing rooms, and offices for the members of these departments. It was named for the Honorable Henry Lord, of Bangor, a former president of the Board of Trustees.

STEWART HALL.—This building is situated in Bangor and contains offices and recitation rooms of the College of Law. It is three stories in height and was named for Honorable D. D. Stewart, of St. Albans, Maine, who has been a generous benefactor of this college.

WINGATE HALL.—This building contains three stories and a basement. It is used by the Departments of Civil Engineering and Mechanics and Drawing.

WINSLOW HALL.—This is a four story building including the basement. It contains offices, laboratories, and recitation rooms for the various departments of the College of Agriculture. It was named in honor of Honorable Edward B. Winslow, of Portland, a former president of the Board of Trustees.

DAIRY BUILDING.—This building contains rooms and laboratories for the use of the Department of Dairy Husbandry. It is equipped with appliances for teaching courses in the handling of milk and cream and the manufacture of butter, cheese and ice cream.

FARM BUILDINGS.—These comprise two large modern dairy barns having accommodations for 150 head of cattle, a horse barn, a hay storage barn, a piggery, a sheep barn and two tool houses.

HORTICULTURAL BUILDING.—This includes a set of greenhouses east of Holmes Hall and furnishes opportunity for demonstration of the practical culture of flowers and vegetables under glass. A greenhouse was erected in the southern part of the campus in 1924.
INFIRMARY.—This building is used in caring for cases of infectious diseases that may appear among the students. It is located in the rear of Hannibal Hamlin Hall.

Observatory.—The astronomical observatory stands on a slight elevation east of Alumni Hall. It contains equipment for work in descriptive and practical astronomy.

Poultry Plant.—The part of the plant that belongs to the College of Agriculture consists of a two and one-half story building to which are attached brooder houses. The plant which belongs to the Agricultural Experiment Station contains an incubator house with tenement above, two poultry houses, a two story house, a building containing a hospital for hens, and rooms for digestion experiments.

Stock Judging Pavilion.—This is an octagonal structure located in the rear of Winslow Hall. It has a seating capacity of 600.

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. It contains a quarter-mile cinder track, with a 220-yard straightaway, and is graded and laid out for football, baseball, and track and field athletics. It contains a grandstand with a seating capacity of 2,100. There is also an out-door board running track 390 feet long by 12 feet wide.

Central Heating Plant.—The Central Heating Plant is located on low ground so that the buildings drain by gravity to the plant. It contains five 150 h. p. boilers, two Worthington duplex return pumps, and scales for weighing coal.

Fraternity Houses.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Phi Kappa Sigma, Sigma Alpha Epsilon, Theta Chi, Sigma Nu, and the Phi Eta Kappa Society have houses on the campus. The local chapters of Lambda Chi Alpha, Phi Mu Delta, Sigma Phi Sigma, and Alpha Gamma Rho own houses adjoining the campus on College Road. The local chapters of Alpha Tau Omega and Sigma Chi own houses on North Main Street. The local chapter of Phi Gamma Delta is erecting a chapter house on College Road. These houses accommodate from 25 to 50 students each.

Print Shop.—The University Press is located in a wooden building north of Aubert Hall. It contains a modern outfit for the printing required by the university.

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 five residences occupied by members of the faculty.

THE UNIVERSITY FARMS

The university farms consist of approximately 400 acres divided into two farms, one of which adjoins the campus.
Of the farm land, one hundred eighty acres are under cultivation. One hundred fifty-three acres are devoted to farm crops, ten acres to orchards, two acres to the forest nursery, fifteen acres to poultry lots, twenty acres to systematic forestry, and two hundred acres to forest and pasture lands.
These farm lands together with the university campus make the university holdings at Orono approximately 500 acres.

THE LIBRARIES

The university libraries contain (June 30, 1924) over 75,000 books and bound periodicals, and over 23,000 pamphlets. The fields of agriculture, mathematics, physics, chemistry, and technology are strongly represented by sets of scientific journals and reports, as well as by the current publications which have been added by purchase. Other fields have excellent working collections for undergraduates, built up mainly by the efforts of heads of departments, and there are many long sets of general periodicals.
The university library is a designated depository for United States government documents, and its general collection has been strengthened by donations and deposits as follows: over 1000 mathematical and educational books given by Ex-President Aley; over 500 volumes of English literature and philology from the library of the late Professor H. M. Estabrooke; and the valuable horticultural library bequeathed by the late Professor W. M. Munson.
The Department of Physics and the College of Agriculture have good reference working collections which have been withdrawn for their use from the university library. This does not, however, prevent their recall for general use.
The Agricultural Experiment Station library of about 4800 volumes is shelved with the general library, and is available for consultation, but not for general circulation, except with the director's permission. It contains many valuable sets of scientific journals, the current numbers being on file in Holmes Hall.
A large part of the Law Library collection of over 5500 volumes is on deposit in the Court House in Bangor. These are available for use by the university when needed.
About 325 periodicals are subscribed for by the university library, in addition to about 75 taken at the Experiment Station, and over 150 others
are received as gifts. Of the total number, over half are of a scientific nature, including technological and agricultural journals. The daily and weekly newspapers are in a reading room in the basement of the library building, and the current numbers of the technical engineering journals are available for general use in Wingate Hall, and in Lord Hall.

The reading and seminar rooms of the library building will seat about 150 students, and access to the shelves is entirely unrestricted. The books are classified by the Dewey decimal system, and the main card catalog indexes all volumes by author, subject, and title. There is a special card catalog in the agricultural seminar room which indexes all papers and articles in the publications of the United States Department of Agriculture and the Agricultural Experiment Stations of the various states.

Elementary library instruction is given as a part of the work required of all entering students during Freshman Week; this includes practice in the use of the catalog, reference books, and magazine indexes.

The library building is open daily during the academic year from 8.00 a. m. to 5.30 p. m. and from 7.00 to 9.00 p. m. on Monday, Tuesday, Wednesday, and Thursday. Hours on other days are: Friday, 8.00 a. m. to 5.30 p. m.; Saturday 8.00 a. m. to 12 noon and 1.30 to 5 p. m.; Sunday, 2.00 to 4.00 and 7.00 to 9.00 p. m.; holidays, 8.00 a. m. to 12 noon.

Students may borrow three volumes at a time from the general library, to be retained three weeks; if more are desired or if need exists to retain them for a longer period, application should be made to the Librarian. A fine of two cents a day is collected for overdue books. Reference books do not circulate and special regulations are made for books reserved at the request of instructors. Unbound periodicals may be borrowed over night upon application to the desk assistant. Members of the faculty may borrow any reasonable number of volumes without time limit, but all books must be returned nine days before Commencement. Books will be loaned to other libraries, to schools, and to residents of the State when it can be done without interference with local needs, the borrower paying transportation charges in both directions.
MUSEUM OF NATURAL HISTORY

Curator of the Botanical and Zoological Collections

Lucius Herbert Merrill

Curator of the Geological Collections

The museum occupies the wing of Coburn Hall and adjoining rooms in the main part of the building.

Zoological Collections.—These collections occupy the lower floor of the wing of Coburn Hall. Some of the alcoholic and formalin 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' nest, 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. The herbarium includes several collections of considerable value, the most important of which is the one made by the late Rev. Joseph Blake and presented to the university by Mr. Jonathan G. Clark, of Bangor. 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 F. L. 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 Hepaticae, Cummings and Seymour's North American Lichens, and a collection of economic seeds prepared by the United States Department of Agriculture.

Collections other than the herbarium include exhibits illustrating the manufacture of paper and 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. A valuable collection of fossil plants was presented by Professor Harvey.
GEOLOGICAL COLLECTIONS.—These collections, occupying the upper floor 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 the more common minerals; a collection of economic minerals furnished by the United States National Museum; an educational series of rocks furnished by the United States 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.

ART COLLECTION

This collection 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 building, 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 lecture room, and a seminar room. In the latter is a specially constructed cabinet for 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 possesses 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 lecture room in the Library building 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 university possesses a large collection of photographs and lantern slides.
ORGANIZATIONS

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.

American Chemical Society.—The Maine Section of the American Chemical Society has its headquarters at Orono. Some students in the Department of Chemistry are members, and all are welcome to its meetings.

American Institute of Electrical Engineers.—This is an organization for the promotion of the students' interest in electrical engineering work, and to keep him in touch with the latest developments in this branch of engineering activity. Membership in the branch is extended to members of the Electrical Engineering faculty, students pursuing the Electrical Engineering curriculum, and to members and associate members of the Institute.

American Society of Mechanical Engineers.—A regularly organized branch of this society holds regular meetings for the presentation and discussion of engineering papers by members and by visiting engineers.

American Society of Civil Engineers.—This branch of the society is composed of the students 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 this and other institutions and by practicing engineers. The affairs of the branch are controlled by the students under the advice of the department.

Contributors' Club.—This organization, composed of students and members of the faculty who have shown ability in writing, has as its object the cultivation of the literary talents of its members and the general encouragement of literary effort in the university community. Meetings are held twice monthly, at which original stories, essays, and poems are read and criticized by the club members.

Cercle Français.—The object of the Cercle Français is to cultivate the spoken French language and arouse and stimulate an interest in the intellectual life of France. 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 meets once in two weeks.

Círculo Español.—This organization was established in 1921 to afford additional practice in the use of the Spanish language, and to promote a knowledge of the culture of Spain as well as of the Spanish Amer-
ican nations. Meetings with programs in Spanish are held every two weeks. Majors in the Department of Spanish and other properly qualified students are eligible for membership.

THE UNIVERSITY OF MAINE DEBATING SOCIETY.—The debating society is open to all men students of the University. Questions of public interest are discussed. Men interested in intercollegiate debating should join this society.

THE DOMINOES.—The Dominoes is a dramatic club for women students. The aim of the society is to promote dramatic work on the campus. Plays are given each year.

ENGLISH CLUB.—All major and minor students in English, and such other teachers and students as may be elected to membership by reason of their known interest in the study of English. Meetings are held monthly at which addresses or other programs of value are given.

FORESTRY CLUB.—All students majoring in the curriculum in Forestry are eligible for membership in the Forestry Club. The purpose of the club is to give an opportunity for presenting informal discussions and technical papers on forestry subjects, and to promote cooperation and general good fellowship among the forestry students. The meetings are held monthly.

HOME ECONOMICS CLUB.—This organization is composed of students majoring in Home Economics. Meetings are held regularly once a month at North Hall, the practice house. The object of the society is to keep in touch with current problems in Home Economics, the programs being conducted primarily by the students themselves. The organization also aims to promote cooperation and interest between students and graduates, by the appointment of an alumnae representative for the purpose of sending news to the club from those engaged in the various lines of work.

MATHEMATICS CLUB.—All students majoring in mathematics and others who are interested in the study of the subject are eligible for membership in the Mathematics Club. The purpose of this club is to stimulate interest in the study of mathematics and to give to mathematics students the opportunity to present papers and take part in discussions. Meetings are held monthly.

MAINE MASQUE.—This is a dramatic club which 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 men undergraduates are eligible.

MENORAH ASSOCIATION.—An intercollegiate organization for the study and advancement of Jewish culture and ideals.
ORGANIZATIONS

Physics Club.—Members of the faculty and students who are taking courses in physics or allied subjects are eligible to membership in this organization. Meetings are held every two weeks at which papers are presented and current topics are discussed.

Press Club.—This organization, comprising the press correspondents for the chief newspapers of the state and New England, meets weekly for the purpose of gathering and disseminating news of interest and value to the university.

Maine Christian Association.—The Maine Christian Association, composed of men students, has for its object the promotion of Christian fellowship and aggressive Christian work. Classes for the study of the Bible are conducted during the week.

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

Alpha Chi Sigma.—Alpha Chi Sigma is a professional fraternity with chapters in various American colleges and universities. The members are elected from those whose major work is in the Department of Chemistry.

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

Kappa Phi Kappa.—The Kappa Phi Kappa is a national educational fraternity. The members are elected from the men of the junior and senior classes who expect to make teaching their profession.

Phi Beta Kappa.—This is the oldest national honorary scholarship society. It was founded at William and Mary College in 1776. A chapter was granted to the College of Arts and Sciences of the University of Maine in 1922. Elections to membership are based upon scholarship.

Phi Kappa Phi.—The Phi Kappa Phi, founded at the University of Maine, is an honor scholarship society. Early in the fall semester of the senior year the seven members of the class having the highest standing are elected members, and during the spring semester the ten next highest may be elected.
ican nations. Meetings with programs in Spanish are held every two weeks. Majors in the Department of Spanish and other properly qualified students are eligible for membership.

The University of Maine Debating Society.—The debating society is open to all men students of the University. Questions of public interest are discussed. Men interested in intercollegiate debating should join this society.

The Dominoes.—The Dominoes is a dramatic club for women students. The aim of the society is to promote dramatic work on the campus. Plays are given each year.

English Club.—All major and minor students in English, and such other teachers and students as may be elected to membership by reason of their known interest in the study of English. Meetings are held monthly at which addresses or other programs of value are given.

Forestry Club.—All students majoring in the curriculum in Forestry are eligible for membership in the Forestry Club. The purpose of the club is to give an opportunity for presenting informal discussions and technical papers on forestry subjects, and to promote cooperation and general good fellowship among the forestry students. The meetings are held monthly.

Home Economics Club.—This organization is composed of students majoring in Home Economics. Meetings are held regularly once a month at North Hall, the practice house. The object of the society is to keep in touch with current problems in Home Economics, the programs being conducted primarily by the students themselves. The organization also aims to promote cooperation and interest between students and graduates, by the appointment of an alumnae representative for the purpose of sending news to the club from those engaged in the various lines of work.

Mathematics Club.—All students majoring in mathematics and others who are interested in the study of the subject are eligible for membership in the Mathematics Club. The purpose of this club is to stimulate interest in the study of mathematics and to give to mathematics students the opportunity to present papers and take part in discussions. Meetings are held monthly.

Maine Masque.—This is a dramatic club which 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 men undergraduates are eligible.

Menorah Association.—An intercollegiate organization for the study and advancement of Jewish culture and ideals.
PHYSICS CLUB.—Members of the faculty and students who are taking courses in physics or allied subjects are eligible to membership in this organization. Meetings are held every two weeks at which papers are presented and current topics are discussed.

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KAPPA PHI KAPPA.—The Kappa Phi Kappa is a national educational fraternity. The members are elected from the men of the junior and senior classes who expect to make teaching their profession.

PHI BETA KAPPA.—This is the oldest national honorary scholarship society. It was founded at William and Mary College in 1776. A chapter was granted to the College of Arts and Sciences of the University of Maine in 1922. Elections to membership are based upon scholarship.

PHI KAPPA PHI.—The Phi Kappa Phi, founded at the University of Maine, is an honor scholarship society. Early in the fall semester of the senior year the seven members of the class having the highest standing are elected members, and during the spring semester the ten next highest may be elected.
PHI SIGMA.—A national honor society for students doing major work in biology, and who have completed a certain number of subjects with honor grade.

SCABBARD AND BLADE.—Scabbard and Blade is an honorary military fraternity. Active membership is restricted to cadet officers of high moral and scholastic standing. Honorary members may be elected from commissioned officers of the United States Army; also non-military persons deemed worthy of the honor. The University of Maine company (Co. D., 2nd Reg’t.) was organized in 1916. Companies exist in seventeen other colleges and universities.

SIGMA DELTA CHI.—This is an honor fraternity open to sophomores, juniors, and seniors who have shown unusual ability in the various courses in journalism, and who propose to enter upon journalism as a profession.

TAU BETA PI.—Tau Beta Pi is an honor fraternity for engineers and has chapters in leading universities and technical schools. Elections are made from those juniors and seniors in engineering who have shown high mental and moral qualifications.

XI SIGMA PI.—The Gamma Chapter of Xi Sigma Pi, a national honorary forestry fraternity, was organized at the University of Maine in 1917. The membership is open to upper class students in forestry who possess the proper qualifications.

UNIVERSITY BAND.—This is a military and concert organization attached to the Cadet Corps. It is composed of students in the military department, and rehearsals are conducted by the director of music as regular class work, for which the men receive credit. The band plays for various university functions and games and makes concert trips to nearby cities and towns.

UNIVERSITY CHORUS AND ORCHESTRA.—These bodies are organized from students, faculty, and outside assisting talent, and are conducted by the director of music. A varied repertoire of classic and lighter numbers are studied and performed at concerts and other occasions. Chorus members are admitted to the Maine Festival Chorus, and orchestra members of talent and proper training are given consideration whenever vacancies occur in the Bangor Symphony Orchestra, a semi-professional organization.

MUSICAL CLUBS.—Glee and mandolin clubs are maintained by both men and women students and concert trips are taken at intervals during the college year.
UNIVERSITY PUBLICATIONS

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

Maine Bulletin.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public. It includes the Annual Report and the Annual Catalog.

The Maine Alumnus.—This is published five times during the academic year by the General Alumni Association and is sent free to all former students of the university.

Annual Report of the Agricultural Experiment Station and the Agricultural Experiment Station Bulletins.—These give complete results of the work of investigation of the station. The Bulletins and Official Inspections are sent free on request to any resident of Maine.

Official Inspections.—These are published by the Agricultural Experiment Station, and contain the result of the work of inspection of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs, foods, fungicides, and insecticides.

Extension Bulletins and Extension News Letters.—These publications are issued by the Agricultural Extension Department. A limited supply of the bulletins is available for distribution and will be forwarded on application. The News Letters are distributed to newspapers and persons whose names are on the classified mailing lists.

Maine Campus.—This is a paper published weekly during the academic year by an association of the students.

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

The Maine-Spring.—This is a literary magazine published four times a year. It is under the supervision of the Contributors' Club.

PUBLIC WORSHIP

A short service of a religious character is held in the chapel four days in the week. Students receive a cordial welcome at all services in the churches of Orono. Voluntary religious services are held each week under the direction of the Maine Christian Association and the Young Women's Christian Association.
STUDENT REGULATIONS

It is assumed that all students entering the university are willing to subscribe to the following: 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.

A pamphlet containing special information for the guidance of students may be obtained from the Registrar.

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of eighteen hours in the College of Arts and Sciences, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Agriculture and the College of Technology. In the application of this rule, two or three hours of laboratory work count as one hour.

Each student is expected to be present at every college exercise for which he is registered.

It is requested that all entering students submit a certificate from a physician stating that they have been vaccinated for smallpox within the past five years, or be vaccinated at the time of their physical examination.

SCHOLARSHIP HONORS

Scholarship honors are awarded to seniors whose scholarship places them in the first 15 per cent. of their class. The names of students winning these honors are printed in the catalog.

DEGREES

The degree of Bachelor of Arts (B. A.), with specification of the major subject, is conferred upon all students who complete a curriculum in the College of Arts and Sciences.

The degree of Bachelor of Science (B. S.) in the curriculum pursued is conferred upon students who complete the prescribed work of four years in the Colleges of Agriculture or Technology.

The degree of Bachelor of Pedagogy (B. Pd.) is conferred upon students in the College of Arts and Sciences who have completed a course in an approved high school, a course in a normal school, and two years under prescribed conditions at the university. The conferring of this degree will be discontinued after June, 1925.

A minimum residence of one year is required for the attainment of any bachelor’s degree.
EXPENSES

The degrees of Master of Arts (M. A.) and Master of Science (M. S.) are granted for one year’s graduate work with distinction. For conditions and requirements see the Division of the Faculty of Graduate Studies.

THESES

Theses shall be printed, or typewritten in black record, unless the subject matter prevents, and the paper used shall be a standard thesis paper, 8 x 10 1-2 inches, which may be procured at the University Store. Care should be taken to have a margin of one inch on the inner edge, at least one-half inch on the outer edge, one and one-half inches at the top, and one inch at the bottom of the page.

If drawings accompany the thesis, they may be bound in with the rest of the pages or placed in a pocket on the inside of the book cover; or if too many for this, they may be bound separately according to personal instructions of the head of the department.

A draft of all undergraduate theses must be passed to the major instructor before May 1.

Complete instructions may be found in a pamphlet entitled “Degrees and Theses.”

STUDENT EXPENSES

The estimates are prepared upon the basis of students living in university halls.

Estimate of Annual Expenses

<table>
<thead>
<tr>
<th></th>
<th>Students from within the State</th>
<th>Students from without the State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$125.00</td>
<td>$195.00</td>
</tr>
<tr>
<td>Text-books</td>
<td>25.00 to 50.00</td>
<td>25.00 to 50.00</td>
</tr>
<tr>
<td>Board 36 weeks @ $6.00</td>
<td>216.00</td>
<td>216.00</td>
</tr>
<tr>
<td>Room in Dormitory</td>
<td>54.00</td>
<td>54.00</td>
</tr>
<tr>
<td>Special Assessment for Athletics &amp; Debating</td>
<td>7.50</td>
<td>7.50</td>
</tr>
<tr>
<td></td>
<td>$427.50 to $462.50</td>
<td>$497.50 to $532.50</td>
</tr>
</tbody>
</table>

Application for Admission

A fee of $10.00 is required at the time of application. No application will be considered by the Committee on Admission until this is received.
This fee is refunded if the applicant is not admitted. If the applicant is admitted, but decides not to enter, the fee is forfeited.

When the applicant enters the university the fee will be applied toward payment of the first semester’s tuition.

**Application for Room**

A deposit of $15.00 is required at the time application is made for a room. If a student is unable to enter, the deposit will be refunded provided the room is given up on or before August 1. If notice of withdrawal is given on or before September 1st, $10.00 will be refunded. In case of withdrawal after September 1, the entire deposit is forfeited.

When a student enters the university the deposit of $15.00 will be applied toward payment of dormitory charges.

**Special Charges**

A fee of $2.00 is charged a student for each special examination.

Students registering after the prescribed day of registration for the fall or spring semester shall pay an additional fee of two dollars.

No laboratory fees are charged in any department.

A fee of $2.00 is charged for each late registration.

**Rooms**

The rooms in the Mt. Vernon House, Balentine Hall, Oak Hall, and the middle section of Hannibal Hamlin Hall accommodate two students each. All other rooms accommodate four students each.

Dormitory charges include steam heat and electric lights. The rooms in the dormitories for men are furnished with beds, mattresses, chiffoniers, desks, and chairs. Each resident in the dormitory has bed linen and three towels laundered each week without extra charge. Students furnish pillows, bed linen, and blankets.

Women students not living at home are required to live in one of the women’s dormitories. In exceptional cases women students are allowed to live at some boarding house approved by the President.

**Deposits to Cover Expenses**

The University requires all students to pay in advance. The payments indicated below are required at the beginning of each semester.
Deposit Residents of Maine \hspace{1cm} Non-Residents of Maine
\begin{tabular}{lcc}
Tuition & 62.50 & 97.50 \\
Board and Room & 135.00 & 135.00 \\
Key Deposit (men only) & 5.00 & 5.00 \\
Special Assessment for Athletics and Debating & 3.75 & 3.75 \\
\hline
\end{tabular}

\$206.25 \hspace{1cm} \$241.25

For students who do not room and board in university halls the above amounts are reduced by \$140.00.

All men taking military are required to make a deposit of \$30.00 to cover cost of equipment. This deposit is returned at the end of the year, less a charge for lost or misused equipment.

Communications

Communications with reference to financial affairs of students should be addressed to the Treasurer of the University of Maine.

Teachers' Agency

Under the supervision of the Department of Education the University undertakes to assist properly qualified teachers in securing positions after graduation. Correspondence with officials who are looking for teachers is welcomed. No fee is charged for the services of this agency.

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 be paid promptly, and that the principal be returned from the first earnings after graduation. Individual loans are limited to \$50.00.

Scholarships and Prizes

The Kidder Scholarship, thirty dollars, was endowed by Frank E. Kidder, Ph.D., Denver, Colorado, a graduate of the university in the class of 1879. This scholarship is awarded to a student whose rank excels in his junior year. The selection is made by the President and the Faculty.
New York Alumni Association Scholarships.—Scholarship No. 1, fifty dollars, is offered for excellence in debating. In case the effort in debating does not justify this award in any year or years the amount shall be accumulative.

Scholarship No. 2, fifty dollars, is offered annually to encourage advancement and proficiency in English, particularly along the lines which will assist toward facility in correct, clear, direct, and efficient written and oral expression in later professional, commercial, and civil life.

The candidates for this scholarship shall be juniors in the College of Technology. They shall assemble on an announced date and each one shall be required to compose an essay on a subject selected from a list of ten, of which five are chosen by the Department of English and five by the College of Technology. The award will be based upon the quality of the essay and the advancement which is indicated by the student's grade in courses in English. There shall be three judges one of whom shall represent the College of Technology and the other two shall be selected by the Department of English.

Pittsburgh Alumni Association Scholarship, thirty dollars, awarded to a member of the junior class in the College of Technology. The ability of the student and his needs are considered in making this award. The selection is made by the President and the professors of the College of Technology.

Prize of the Class of 1873. The late Russell W. Eaton, of Brunswick, a member of the class of 1873, deposited with the university treasurer a $1000 Liberty Bond, the income of which shall be awarded annually to that member of the sophomore class who is able to show the greatest improvement in mechanical drawing during the first two years of his college course.

It is expected that candidates for this prize shall have had no training in mechanical drawing previous to entering the university.

Central District Alumni Association Scholarship, thirty dollars, is awarded to a sophomore pursuing a regular curriculum whose deportment is satisfactory and who attains the highest rank of his class during the freshman year.

The Elizabeth Abbott Balentine Scholarship was endowed by the Gamma chapter of Alpha Omicron Pi for a woman member of the sophomore class to be determined by the President and the faculty. This scholarship will be at least thirty dollars. Both scholarship and individual need are to be considered in the award.

The Phi Mu Scholarship, thirty dollars, will be awarded each year to a woman student whose scholarship and conduct are deserving and who is in need of financial assistance. The selection will be made by the Presi-
dent of the university, the President of the sorority, and the faculty Committee on Honors.

The Joseph Rider Farrington Scholarship, a gift of Arthur M., Edward H., Oliver C., Horace P., and Wallace R. Farrington, all graduates of the University of Maine and sons of Mr. and Mrs. Joseph Rider Farrington. The gift amounts to $1000 and provides a scholarship under conditions mentioned by the donors. The following order of preference is considered in awarding this scholarship: (a) To any direct descendant of Joseph Rider and Ellen Holyoke Farrington, or any one whom three of such descendants may select; (b) To any student bearing the surname Farrington or Holyoke; (c) To the student in the junior class of the College of Agriculture who attains the highest rank in studies and deportment during that year and who shall make application for the scholarship. Further details concerning this scholarship may be secured by consulting the Dean of the College of Agriculture.

Stanley Plummer Scholarship, Colonel Stanley Plummer of Dexter, Maine, provided a scholarship as set forth in the following paragraph from his will: I give and bequeath to the corporation of the University of Maine, Orono, Maine, the sum of One Thousand Dollars, the income thereof to be given to needy and deserving students in said University, to be selected by the Trustees of the university, who shall have full control of said fund, which shall be known as the "Stanley Plummer Scholarship." Students born in Dexter, Maine, shall have the preference; but, if there are none such, any needy and deserving students may be selected.

Walter Balentine Prize, fifteen dollars, the gift of Whitman H. Jordan, Sc.D., LL.D., Orono, Maine, a graduate of the university of the class of 1875, is awarded to that student who excels in biological chemistry.

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 an agricultural curriculum who attains the highest standing.

The Washington Alumni Association Watch is presented to the member of the graduating class, who, in the opinion of the faculty and students, has done the most for the university during his course. This award is made as the result of a secret ballot by the students and passed upon by the President and the faculty.

The Penobscot Valley Alumni Association Scholarships. Two scholarships of fifty dollars each are awarded to two male students selected by the President of the University, the Executive Secretary of the General Alumni Association and the Faculty Committee on Honors, who are found
to be worthy students, in need of financial assistance and have satisfactory scholarship and conduct. If possible, students whose homes are in the Penobscot Valley shall be selected for the award. The question of freshman, sophomore, and junior classes shall be left at the discretion of the above named committee.

The Track Club Scholarship, fifty dollars, is given by the Track Club to some member of the freshman class who needs financial help. He must be a man interested in track athletics but need not necessarily make his “M” in his freshman year. His scholarship must be satisfactory.

The awarding of this scholarship will be in the hands of a committee composed of the President of the Track Club, the Coach of the Track Team, and the Chairman of the faculty Committee on Honors. The winner will be given the scholarship upon his return to college at the beginning of his sophomore year. Applications for this scholarship must be made in writing and sent to the President of the Track Club before May 1.

University of Maine Honorary Scholarship, one hundred dollars, is to be contributed pro rata by the individual members of the Senior Skulls, Junior Masks, and Sophomore Owls.

1. The scholarship is to be awarded jointly by the Athletic Board of the University of Maine and the faculty committee on Honors.

2. The scholarship is to be awarded to some needy student who, in the opinion of the Athletic Board, is the best athlete making his numerals during his freshman year, and who is eligible upon his return to college the following semester.

3. The award will be announced at Commencement and the scholarship paid to the winner upon his return to college the following September.

The Alpha Omicron Pi Alumnae Prize, ten dollars, given by the Bangor Alumnae Chapter of Alpha Omicron Pi. The award is made to a woman student showing the greatest improvement in her work during her freshman year. The record at the Registrar's office showing the comparison of grades of the fall semester as compared with that of the spring semester will furnish the basis of award.

The Chi Omega Sociology Prize. In accordance with the national policy of the fraternity, Chi Omega offers a twenty-five dollar prize to the woman student who secures the highest grade in the beginners' course in sociology. Her general deportment and interest in the study of sociology may also be considered in determining the award. This prize is intended for sophomore or junior students.

The Class of 1905 Scholarship. The income of a one thousand dollar donation by members of that class shall be awarded to a man of the freshman class pursuing a regular curriculum and whose deportment is satisfactory, and who attains the highest rank in the mid-year examinations.
The Campus Prize. An award of twenty-five dollars is offered as a campus prize to some needy student. The name of the donor is withheld from publication.

Sophomore Essay Prizes, two of fifteen dollars each, one for men and one for women, are awarded to members of the sophomore class for excellence in composition. These essays must be presented by May 1.

Class of 1908 Commencement Cup is awarded to the class, the largest percentage of whose members register during Commencement week.

Fraternity Scholarship Cup, presented to the university by the 1910 Senior Skull Society in 1910, and renewed in 1921 by the 1921 Skulls, is 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, 1921 to 1931 inclusive, and the fraternity to which it is awarded the greatest number of times is to be its permanent owner.

Freshman Scholarship Cup, presented by the Junior Mask Society, is awarded at Commencement to the fraternity whose freshman delegation has the highest standing in scholarship for the first semester.

The Pan Hellenic Sorority Cup is given to the sorority having the highest scholastic standing.

Agricultural Club Membership Cup is furnished by the Agricultural Club to be engraved each year with the numerals of that class which can show the best record of membership in the club.

The Charles Rice Cup, presented by the Kappa Sigma Fraternity in honor of the late Charles Anthony Rice who was killed in service, is held for one year by the team winning the Intra-Mural Track Championship.

Graduate Scholarships. The Board of Trustees have established three graduate scholarships yielding one year's tuition each, to be awarded to one member of the senior class from each of the colleges of the university.

Phi Beta Kappa Scholarship. The local chapter of Phi Beta Kappa awards each year a sum of money which is supplemented by the Board of Trustees so that the total is sufficient for the payment of a year's tuition of a graduate student. Graduates of any approved college or university are eligible for this scholarship. It is awarded by members of the faculty of the College of Arts and Sciences who also belong to the graduate faculty.

ADMISSION

General Requirements.—Candidates for admission should apply to the Registrar for an application card. They must present satisfactory
certificates of fitness, or pass the required examinations on registration day, and make a cash deposit covering the bills of one semester. 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. 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. Students transferring from another college must present a letter of honorable dismissal.

Special Students.—Persons 21 years of age, not candidates for a degree, may be admitted as special students if they give satisfactory evidence that they are prepared to take the desired subjects.

Admission to Short Courses

Candidates for admission to the two-year School Course in Agriculture must be over fifteen years of age and prepared for advanced grammar or high school work.

Admission by Examinations

Entrance examinations are held at Orono, beginning four days before the fall registration of freshmen, and on Tuesday, Wednesday, Thursday, and Friday preceding Commencement. Candidates for admission by examination, should present statements from their school 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 15-20, 1925. All applications for these examinations 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. Applications must be made before May 25 and must be accompanied by the examination fee of $9.00.

Admission of Graduates from Class A Schools in Maine

Graduates from Maine high schools and academies placed by the State Commissioner of Education in Class A, may be admitted upon their school records under the restrictions shown in the next paragraph, provided they have pursued a course of study including all the subjects required for admission to the curriculum that they propose to follow, and a sufficient number of elective subjects to make a total of fourteen and a half units.
A candidate will not be admitted whose average rank for the high school course does not exceed the school pass mark by the margin shown in the following tabulation:

<table>
<thead>
<tr>
<th>Pass mark of school</th>
<th>Candidate not admitted if rank is below</th>
<th>Candidate admitted only on trial if rank lies between</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>68</td>
<td>68 and 76</td>
</tr>
<tr>
<td>65</td>
<td>72</td>
<td>72 and 79</td>
</tr>
<tr>
<td>70</td>
<td>76</td>
<td>76 and 82</td>
</tr>
<tr>
<td>75</td>
<td>80</td>
<td>80 and 85</td>
</tr>
<tr>
<td>80</td>
<td>84</td>
<td>84 and 88</td>
</tr>
</tbody>
</table>

**Admission by Certificate from Schools Outside of Maine**

Principals of schools situated outside of Maine who desire the certificate privilege must make application to the Dean of the University, and must furnish satisfactory evidence that the course of study in the school and its standards meet the requirements for admission. Blank forms for this purpose will be supplied on request.

Certificates will not be accepted for non-graduates except in unusual 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 issued by the Regents of the University of the State of New York are accepted for any of the subjects in which we give admission credit and which are certified as having been passed with a satisfactory grade.

**Required Subjects**

**College of Arts and Sciences**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Foreign languages (four years in one or two in each of two)</td>
<td>4</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics (Algebra and Plane Geometry)</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>10</td>
</tr>
</tbody>
</table>
College of Agriculture

English ............................................................... 3 units
*Algebra ............................................................. 1 "
*Plane Geometry .................................................. 1 "
Science (including laboratory note-book) .................. 1 "
History .............................................................. 1 "

Total ..................................................................... 7 units

College of Technology

English ............................................................... 3 units
Foreign languages (three years in one or two in each of two) 3 or 4 units
Algebra ............................................................... 2 "
Plane and Solid Geometry ...................................... 1½ "
History ............................................................... 1 "
Science ............................................................... 1 "

Total .................................................................. 11½ or 12½ units

ELECTIVE SUBJECTS

A total of fourteen and one-half units is required for admission to any four year curriculum. The units not named above under required subjects may be selected as shown in the following table. Subjects not listed may be accepted among the electives, provided they represent a satisfactory equivalent for any of those listed.

*For admission to the Home Economics curriculum, two units in mathematics acceptable to the Committee on Administration are required.
The required units and the units that may be accepted in various subjects in the respective colleges are shown in tabular form.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Units Accepted</th>
<th>Arts and Sciences</th>
<th>Agriculture</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>and Art</td>
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<td>4</td>
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<td>Drawing</td>
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<td>Not over four units in all of these</td>
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<td>Not over four units in all of these</td>
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<tr>
<td>Commercial Subjects</td>
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<td>4</td>
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<td>1/2</td>
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<td>1/2 or 1</td>
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</table>
Candidates for Technology who meet the requirement in one language may have credit for a single year of another language.

To receive two units credit in elementary algebra, the candidate must have two full years including senior review.

† The work in these subjects must include laboratory work with notebook, as specified in the detailed statement.

‡ Credit for these subjects and for bookkeeping and typewriting is at the rate of one-half unit for a subject taken five forty-five minute periods per week for a year.

§ See foot-note at bottom of page 42.

†† Three units in one foreign language, or two units in each of two foreign languages (Latin and French preferred).

REQUIREMENTS IN DETAIL

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 less time. Progress in composition particularly is of slow growth and requires almost daily cultivation during a long period of time. Books, to be thoroughly enjoyed and appreciated, should be read at leisure and under favorable circumstances.

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

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

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

Subjects.—Subjects for short compositions will be taken from a prescribed 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. There is a list for general reading and a list for study. They will be furnished upon application to the Registrar.

French.—The admission requirements in elementary and intermediate 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 pronouns, common adverbs, prepositions, and conjunctions; order of words in the sentences, 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 biographical 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, novels; Foa, Contes biographiques and le Petit Robinson de Paris; Foncin, le Pays de France; Labiche et Martin, la Poudre aux yeux and le Voyage de M. Perrichon; Legouvé et Labiche, la Cigale chez les fourmis; Malot, Sans famille; Maret, la Tâche du petit Pierre; Mérimée, Colombo; extracts from Michelet; Sarcey, le Siège de Paris; Jules Verne’s stories.

II. Intermediate 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 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 proportions; writing from dictation.

Suitable texts are: About, novels; Augier et Sandeau, *le Gendre de M. Poirier*; Béranger, poems; Corneille, *le Cid* and *Horace*; Coppée, poems; Daudet, *la Belle Nivernaise*; La Brète, *Mon oncle et mon curé*; Madame de Sévigné, letters; Victor Hugo, *Hernani* and *la Chute*; Labiche, plays; Loti, *Pêcheur d'Islande*; Mignet, historical writings; Racine, *Andromaque* and *Esther*; George Sand, novels; Sandeau, *Mademoiselle de la Seiglière*; Scribe, plays; Thierry, *Récits*; Vigny, *la Canne de jonc*; Voltaire, historical writings.

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

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

Suitable reading matter will be: Beaumarchais, *le Barbier de Séville*; Corneille, dramas; Dumas père, prose writings; Dumas fils, *la Question d'argent*; Victor Hugo, *Ruy Blas*, lyrics, and novels; La Fontaine, *Fables*; Larmartine, *Grasiella*; Marivaux, plays; Molière, plays; Musset, plays and poems; Pellissier, *le Mouvement littéraire aux XIXe siècle*; Renan, *Souvenirs d'enfance et de jeunesse*; Rousseau, writings; Sainte-Beuve, essays; selections from Zola, Maupassant, and Balzac.

The examination of the College Entrance Certificate Board in elementary French will be accepted for two units, and that in intermediate French for one additional unit.

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

I. Elementary German.—The first year's work should comprise: (1) careful drill upon pronunciation; (2) memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the
more unusual strong verbs; also in the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary 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 reproductions, 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 secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Anderson, Märchen and Bilderbuch ohne Bilder; Baum-bach, Die Nonna and Der Schwiegerson; Gerstäcker, Germelshausen; Heyse, L'Arabbiata, Das Madchen von Treppi, and Anfang und Ende; Hillern, Höher als die Kirche; Jensen, Die braune Erica; Leander, Träumereien and Kleine Geschichten; Seidel, Märchen; Stökl, Unter dem Christbaum; Storm, Immensee and Geschichten aus der Tonne; Zschokke, Der zerbrochene Krug.

The best shorter plays available are: Benedix, Der Prozess, Der Weberfeind, and Günstige Vorzeichen; Elz, Er ist nicht eifersüchtig; Wichert, An der Majorseeche; Wilhelm, Einer muss heiraten. Only one of these plays needs 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 may be selected from such work as the following: Ebner-Eschenbach, Die Friecherren 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, Irrfahrten; Goethe, Hermann und Dorothea and Iphigenie; Heine's Poems and Reisebilder; Hoffman, Historische Erzählungen; Lessing, Minna von Barnhelm; Meyer, Gustav Adolfs Page; Moser, Der Bibliothekar; Riehl, Novellen, Burg Neideck, Der Fluch der Schönheit, Der Stumme Ratsherr, Das Spielmanuskind; 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 Săkkingen; 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 two units, and that in advanced German for one additional unit.

Spanish.—The admission requirements in Spanish are those of the College Entrance Examination Board.

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

The first year's work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the careful reading and accurate rendering into good English of about 100 pages of easy prose and verse, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

The second year's work should comprise: (1) The reading of about 200 pages of prose and verse; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the modes and the tenses; (5) writing Spanish from dictation; (6) memorizing of easy short poems.

The emphasis should be placed on careful thorough work with much repetition rather than upon rapid reading. The reading should be selected
from the following list or be of equal grade: A collection of easy short stories and lyrics, carefully graded; Marmol, Amalia; Pérez Escrich, Fortuna; Ramos Carrión and Vital Aza, Zaragüeita; Palacio Valdés, José; Pedro de Alarcón, El Capitán Veneno; Selgas, La mariposa blanca; Altamirano, La navidad en las montañas; the selected short stories of Pedro de Alarcón or Antonio de Trueba.

**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.

2a. 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.

3a. An examination on Cicero, speech for the Manilian Law, and the fourth speech against Catiline, 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.

4a. An examination on Vergil, Æneid, I and IV, and Ovid, Metamorphoses, Bk. III, 1-137 (Cadmus), IV, 55-166 (Pyramus and Thisbe), and 663-764 (Perseus and Andromeda), VI, 165-312 (Niobe), VIII, 183-235 (Daedalus and Icarus), X, 1-77 (Orpheus and Eurydice), XI, 85-145 (Midas), with questions on subject matter, literary and historical allusions, and prosody.

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 except in the College of Arts and Sciences. Each represents a year’s work and entrance credit for one unit.

In parts 3 and 4 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**

The admission requirements in history are based on the recommendations of the Committee of Seven. The student will be expected to show judgment as well as memory and be able to make comparisons and give summaries. Some knowledge of history, geography, and collateral reading are essential.

I **Greek History.**—To death of Alexander with due consideration of Greek life, literature, and art.

II **Roman History.**—To 800 A.D. with emphasis on government and institutions.

III **English History.**—A general knowledge of the political and social development of England; in particular the growth of the limited monarchy with parliamentary government and the British Empire and Commonwealth.

IV **American History.**—Including civics and with especial attention to social and economic life.

V **Medieval History.**—To 1500.

VI **Modern European History.**—From 1500 to the present.

**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 fractional and negative; quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that may be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive integral exponents; the formulas for the nth 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 the 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 measurements 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.

**REGISTRATION OF FRESHMEN—FRESHMAN WEEK**

All members of the incoming freshman class are REQUIRED to be in residence on the campus for the period of September 9-16, 1924, inclusive. This period is known as Freshman Week. Following the general plan employed in 1923 and 1924, it will be devoted to tests of various sorts whereby the university authorities may obtain more accurate information concerning the type and degree of mental qualifications of the new students and to lectures and demonstrations by which the students may be more intelligently informed of university customs and habits.

**NO EXCUSES FOR NON-ATTENDANCE OTHER THAN ILLNESS CERTIFIED TO BY A PHYSICIAN IN GOOD STANDING WILL BE ACCEPTED.**

**REGISTRATION OF UPPER CLASSMEN**

In the fall semester of 1925 upper classmen will be required to register on September 16 or to present written evidence that they have been excused from so registering by the university authorities. In other words, upper classmen must before September 16, have communicated with the Dean of their college giving him their reasons for desiring to register late, and have received from him written authorization so to do. If they have tried to communicate with him and have received no reply from him, it will not be considered that sufficient excuse for late registration has been given. Late registration is a handicap both to students and to university authorities and will be rigidly discouraged wherever and whenever possible.
Organization of the University

The university is divided for purposes of administration into the Colleges of Agriculture, Arts and Sciences, and Technology, and the Maine Agricultural Experiment Station. The policies of the university as a unit are determined by the Board of Trustees and the general faculty, but each division regulates those affairs which concern itself alone.

College of Agriculture

School Course in Agriculture (two years).
Short courses; Farmers' Week; Correspondence and Lecture Courses; Demonstration Work; Extension Schools.

College of Arts and Sciences

Major subjects may be selected in Biology, Chemistry, Economics and Sociology, Education, English, French, History and Government, Latin, Mathematics and Astronomy, Philosophy, Physics, Psychology, and Spanish and Italian.

College of Technology

Curricula in Chemical Engineering, Chemistry, Civil Engineering, Electrical Engineering, and Mechanical Engineering.

Maine Agricultural Experiment Station

Offices and principal laboratories at Orono; Highmoor Farm at Monmouth; Aroostook Farm at Presque Isle.
Graduate Courses leading to the Master's and Doctor's degrees have been organized. These courses are administered by the Faculty of Graduate Studies.
A Summer Term of six weeks is maintained by the university.
The college year is divided equally into a fall semester and a spring semester. The minimum regular work for a semester in the College of Arts and Sciences is fourteen hours a week. In the College of Agriculture and the College of Technology the minimum is seventeen hours a week. Thirty hours in the major subject represent the minimum requirement for a degree.
College of Agriculture

FACULTY OF INSTRUCTION

Leon Stephen Merrill, M.D., Sc.D., Dean and Director of Agricultural Extension Service
Lucius Herbert Merrill, Sc.D., Professor of Biological and Agricultural Chemistry
Fremont Lincoln Russell, B.S., V.S., Professor of Bacteriology and Veterinary Science
John Manvers Briscoe, M.F., Professor of Forestry
George Edward Simmons, M.S., D.Sc., Professor of Agronomy
Lamert Seymour Corbett, M.S., Professor of Animal Industry
Herbert Staples Hill, B.A., Professor of Agricultural Education
Herman Pittee Sweetser, B.S., Professor of Horticulture
Esther McGinnis, M.S., Professor of Home Economics
Phineas Wescott Whiting, Ph.D., Professor of Biology
Charles Henry Merchant, M.S., Professor of Agricultural Economics and Farm Management
*Irving Hill Blake, M.A., Associate Professor of Biology
*Charles Howard Batchelder, B.A., M.S., Associate Professor of Zoology
Llewellyn Morse Dorsey, M.S., Associate Professor of Animal Industry
William Henry Eyster, M.A., Associate Professor of Biology
Elmer Reeve Hitchner, M.S., Associate Professor of Bacteriology
Pearl Stuart Greene, M.A., Associate Professor of Home Economics
Harry Woodbury Smith, M.S., Assistant Professor of Biological and Agricultural Chemistry
Benjamin Coe Helmick, M.S., Assistant Professor of Agronomy
Chauncey Wallace Lord Chapman, M.S., Assistant Professor of Forestry
Louise Bancroft, B.S., Assistant Professor of Home Economics
Leigh Philbrook Gardner, M.S., Assistant Professor of Animal Industry
Harold Clayton Swift, B.S., Instructor in Agronomy
Walter Wentworth Wiggin, B.S., Instructor in Horticulture
Edwin Dillmon Hull, M.S., Instructor in Biology
Helen Woodbridge, M.S., Instructor in Biology
Dwight Burgess DeMeritt, M.F., Instructor in Forestry
Howe Wiggin Hall, B.S., Instructor in Animal Industry
Rena Campbell, B.S., Instructor in Home Economics
Philip Ainslee Harriman, B.A., Instructor in Biology
Eva Elizabeth Jones, M.A., Instructor in Biology

*On leave of absence.
GENERAL INFORMATION

The College of Agriculture comprises the departments of Agricultural Economics and Farm Management, Agricultural Education, Agronomy, Animal Industry, Biological and Agricultural Chemistry, Biology, Forestry, Home Economics, Horticulture, Veterinary Science and Bacteriology, and Agricultural Extension. The aim of this college is to train young men for service as farmers, teachers of agriculture and the allied sciences in schools and colleges, investigators in agricultural experiment stations, and foresters; and to prepare young women to become teachers of home economics and to comprehend the problems of administration in the home and in public institutions. On entering either a four-year curriculum or the two-year 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 faculty of the college.

The college curricula are designed for those who wish to follow general farming, animal husbandry, dairy husbandry, poultry husbandry, horticulture, home economics, chemistry as related to experiment station work, biological chemistry, bacteriology and veterinary science, biology, farm management, and forestry either as a business or as a profession.

The courses of instruction are organized as follows:

1. Regular Curricula
   - The four-year general curricula in Agricultural Education
   - Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, and Poultry Husbandry
   - The two-year School Course in Agriculture

2. Short Courses
   - The short winter courses in General Agriculture, Dairying, Horticulture, and Poultry Management
   - Farmers' Week

3. Extension Courses
   - The correspondence courses
   - The lecture courses
   - Movable or extension schools

CURRICULA IN AGRICULTURE

Certain studies are fundamental to all work in agricultural lines. As many as possible of these subjects are offered in the first two years, during which the student is necessarily given no choice of subjects. By the beginning of the junior year each student must decide whether he is to specialize in Agricultural Education, 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. They should also elect a preparatory course in quantitative chemical analysis.

The elective subjects are selected with the advice of the major instructor.

Before receiving their degrees candidates must satisfy the faculty that they are familiar with the methods of conducting operations incident to general farming. This does not apply to students who major in Biology, Forestry, and Home Economics.

One of the following curricula is required for the student pursuing a four-year curriculum in the College of Agriculture. Each curriculum embraces 147 hours, with the exception of the Home Economic curricula, for each of which 148 hours are required. On the completion of one of these curricula, the student will receive the degree of Bachelor of Science (B.S.).

Physical training is required in each semester of the first three years. No credit toward a degree is allowed for this work.

Students desiring to specialize in the biological aspects of Forestry may offer freshman and sophomore courses in Forestry as equivalent to the first two years' work in Agriculture and register in the curriculum in Biology during the junior and senior years.

A star (*) before the time designated for a course indicates that three or sometimes more hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit.

Curriculum for the First Two Years for All Students Taking Four-Year Curricula in Agriculture

**FRESHMAN YEAR**

<table>
<thead>
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<tr>
<td>Military 1, †3</td>
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<td>Poultry Husbandry 1, 2 †2</td>
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<td>Zoology 1, 2 †4</td>
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<tr>
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CURRICULUM FOR STUDENTS SPECIALIZING IN AGRICULTURAL EDUCATION

SOPHOMORE YEAR

**Fall Semester**

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<td>Biochemistry 1</td>
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<tr>
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<tr>
<td>or</td>
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**Spring Semester**

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<td>Biology 8, 2 *4</td>
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<td>or</td>
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JUNIOR YEAR

**Fall Semester**

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**Spring Semester**

<table>
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<td></td>
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<tr>
<td>Horticulture 20, 2 *2</td>
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<tr>
<td>or</td>
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<td>Agronomy 72, 2 *3 (Farm Mechanics and Machinery)</td>
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<td>Farm Management 52, 1 *6..</td>
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SENIOR YEAR

Agricultural Education 3, 2 †2 3
Agricultural Economics 73... 3
Agronomy 3... 2
Agronomy 71, 2 *3 (Agricultural Engineering)... 3
Mechanical Engineering 5, *3... 1
Electives............... 4

Agricultural Education 4.... 4
Agricultural Education 6... 2
Agronomy 20, 1 †2........ 2
Farm Management 74, 3 *3... 4
Rural Sociology 82........ 2

Curriculum for Students Specializing in Agronomy

JUNIOR YEAR

Fall Semester

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<td>Biology 9, 2 †6...</td>
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Spring Semester

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<td>Agronomy 16, 1 †2............</td>
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<td>Agronomy 18...</td>
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<td>Biology 10, 2 †6.............</td>
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<td>Elective</td>
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<td>Physical Training 6..........</td>
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SENIOR YEAR

Agronomy 3... 2
Agronomy 71, 2 *3 (Agricultural Engineering)... 3
Elective............... 12

Agronomy 20, 1 †2........ 2
Farm Management 52, 1 *6... 3
Agronomy 72, 2 *3 (Farm Mechanics and Machinery)... 3
Farm Management 74, 3 *3... 4
Elective............... 3

*If not already taken in the sophomore year. If taken in the sophomore year, the elective hours will be correspondingly increased for this semester.
Curriculum for Students Specializing in Animal Industry

**ANIMAL HUSBANDRY**

**JUNIOR YEAR**

### Fall Semester

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<td>Biology 51, 2 †4</td>
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### Spring Semester

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<td>Veterinary Science 14</td>
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**SENIOR YEAR**

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<td>Animal Industry 53</td>
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<td>Agronomy 71, 2 *3 (Agricultural Engineering)</td>
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<tr>
<td>Veterinary Science 15</td>
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<td>Veterinary Science 17</td>
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**DAIRY HUSBANDRY**

**JUNIOR YEAR**

### Fall Semester

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### Spring Semester

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<td>Animal Industry 8, 1 *6</td>
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<td>Bacteriology 52, 1 †4</td>
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<td>Physical Training 6</td>
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*If not already taken in the sophomore year. If taken in the sophomore year, the elective hours will be correspondingly increased for this semester.*
SENIOR YEAR

Subject  
Agronomy 3 ....................... 2  
Animal Industry 9, 2 *6 .......... 4  
Animal Industry 51 .............. 3  
Agronomy 71, 2 *3 (Agricultural Engineering) .............. 3  
Veterinary Science 15 ........... 2  
Veterinary Science 17 .......... 1  
Elective .......................... 2

Subject  
Bacteriology 54, 1 †4 .......... 3  
Farm Management 52, 1 *6 .... 3  
Agronomy 72, 2 *3 (Farm Mechanics and Machinery) 3  
Elective .......................... 7

POULTRY HUSBANDRY

JUNIOR YEAR

Fall Semester
*Animal Industry 7, 2 †4 .... 4  
Bacteriology 1, †6 ............. 3  
Bacteriology 3 ................. 2  
Biology 51, 2 †4 ............... 4  
English 5 ........................ 2  
Poultry Husbandry 3, 1 †2 ... 2  
Physical Training 5 ............

Spring Semester
*Agricultural Chemistry 6 .. 2  
Animal Industry 6 ............ 2  
Biology 52, 2 †4 .......... .... 4  
Poultry Husbandry 4 ........... 2  
Elective .......................... 7  
Physical Training 6 ..

SENIOR YEAR

Agronomy 3 ....................... 2  
Agronomy 71, 2 *3 (Agricultural Engineering) .............. 3  
Poultry Husbandry 5 ........... 2  
Poultry Husbandry 7, 2 †3 ... 3  
Elective .......................... 7

Farm Management 52, 1 *6 .. 3  
Agronomy 72, 2 *3 (Farm Mechanics and Machinery) 3  
Poultry Husbandry 6, 3 †2 .. 4  
Veterinary Science 12 ....... 2  
Elective .......................... 4

*If not already taken in the sophomore year. If taken in the sophomore year, the elective hours will be correspondingly increased for this semester.
Curriculum for Students Specializing in Horticulture

**JUNIOR YEAR**

<table>
<thead>
<tr>
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<th>Hours</th>
<th>Spring Semester</th>
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<th>Hours</th>
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<td>Biology 10, 2 †6</td>
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**SENIOR YEAR**

| Agronomy 3 | 2       |       |
| Agronomy 71, 2 *3 (Agricultural Engineering) | 3 |       |
| Horticulture 3, 2 †2 | 3       |       |
| Horticulture 5, 2 †2 | 3       |       |
| Horticulture 7, 2 †2 | 3       |       |
| Horticulture 51 | 1       |       |
| Elective | 2       |       |

**Curriculum in Biology**

**JUNIOR YEAR**

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*If not already taken in the sophomore year. If taken in the sophomore year, the elective hours will be correspondingly increased for this semester. **Must be taken the semester following Horticulture 20.
CURRICULUM IN FORESTRY

Only the four-year undergraduate course is offered in Forestry. The curriculum for this course follows. It is arranged to meet the requirements of the National Committee of the Conference of Forest Schools, on Standardization of Instruction in Forestry. Completion of the curriculum leads to the degree of Bachelor of Science in Forestry. It will enable the graduate to qualify for technical and administrative positions in professional forestry work, and will admit to advanced standing in post-graduate schools of forestry of high standing, if further and more advanced work is desired.

It will also make a student eligible for the Civil Service examinations for the position of Forest Assistant in the United States Forest Service.

Owing to the wide field covered by the curriculum, it offers an excellent basis for a broad and liberal education.

The first two years are given very largely to fundamental and auxiliary subjects, which are basic for a proper understanding of the more highly specialized work in technical forestry in the last two years.

Instruction in the 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.

A camp course of eight weeks practical experience is required of all seniors in the second half of the fall semester. This is given in the woods in cooperation with woods operations of the Great Northern Paper Company.
# UNIVERSITY OF MAINE

## FRESHMAN YEAR

### Fall Semester

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<td>English 1</td>
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<tr>
<td>Forestry 1</td>
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<td>Mathematics 11</td>
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<tr>
<td>Military 1</td>
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<tr>
<td>Zoology 1, 2</td>
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<td>Physical Training 1</td>
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### Spring Semester

<table>
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<tbody>
<tr>
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<tr>
<td>Chemistry 2 or 4</td>
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<td>Chemistry 6 or 8</td>
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<td>Drawing 2</td>
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<td>English 2</td>
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<tr>
<td>Mathematics 2</td>
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<td>Mathematics 12</td>
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<tr>
<td>Military 2, 3</td>
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## SOPHOMORE YEAR

<table>
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<tbody>
<tr>
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<td>Civil Engineering 1</td>
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<tr>
<td>Civil Engineering 7</td>
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<td>Economics 1b</td>
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<tr>
<td>English 5</td>
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<td>Military 3</td>
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<tr>
<td>Elective</td>
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<td>Physical Training 3</td>
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<table>
<thead>
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<tbody>
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<td>Biology 68, 2</td>
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<td>Economics 2b</td>
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<td>English 10</td>
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<td>Forestry 10</td>
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## JUNIOR YEAR

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<tbody>
<tr>
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<td>Civil Engineering 21</td>
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<td>Civil Engineering 23</td>
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<td>Civil Engineering 27</td>
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<td>Forestry 13, 6</td>
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<td>Geology 5</td>
<td>3</td>
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<td>Horticulture 5, 2</td>
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<table>
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<th>Subject</th>
<th>Hours</th>
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<tr>
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<td>Civil Engineering 22</td>
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<td>Civil Engineering 24</td>
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<td>Forestry 6</td>
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<tr>
<td>Forestry 8, 6</td>
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<td>Forestry 28</td>
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<td>Physics 10</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td><strong>First Half Semester:</strong></td>
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<tr>
<td>Forestry 3</td>
<td>2</td>
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<td>Forestry 9</td>
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<tr>
<td>Forestry 15</td>
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<tr>
<td>Forestry 19</td>
<td>1</td>
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<tr>
<td>Forestry 21, *3</td>
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<tr>
<td><strong>Second Half Semester (In Camp):</strong></td>
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</tr>
<tr>
<td>Forestry 31</td>
<td>3</td>
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<td>Forestry 33</td>
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<tr>
<td>Forestry 35</td>
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<tr>
<td><strong>Subject:</strong></td>
<td><strong>Hours</strong></td>
</tr>
<tr>
<td>Biology 66, 2 †2</td>
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<tr>
<td>Forestry 12</td>
<td>2</td>
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<td>Forestry 14, *6</td>
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<tr>
<td>Forestry 16</td>
<td>2</td>
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<tr>
<td>Forestry 18, *6</td>
<td>2</td>
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<tr>
<td>Forestry 20</td>
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<tr>
<td>Forestry 22</td>
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<tr>
<td>Elective</td>
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**CURRICULA IN HOME ECONOMICS**

The Department of Home Economics offers two curricula leading to a Bachelor of Science degree. The general curriculum is planned for the woman who wishes a broad education with special training in Home Economics in order to qualify for such positions as the extension service, hospital dietitians, social service, research, journalism. The elective hours provide an opportunity for selection of courses from various departments of the University. This curriculum is also planned for the home maker.

The curriculum in Home Economics Education includes the six hours of psychology and twelve hours of education necessary to obtain the Professional Secondary Certificate. It also fulfills the requirements for teaching in Smith-Hughes vocational schools and prepares teachers for secondary schools, colleges, and universities.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Chemistry 1 or 3</td>
<td>Chemistry 2 or 4</td>
</tr>
<tr>
<td>Chemistry 5, or 7 †4</td>
<td>Chemistry 6 or 8, †4</td>
</tr>
<tr>
<td>English 1</td>
<td>English</td>
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<tr>
<td>Home Economics 1, 2 †4</td>
<td>Home Economics 2, 2 †4</td>
</tr>
<tr>
<td>Home Economics 3, 1 †2</td>
<td>Home Economics 4, 1 †4</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>Physical Education 1b, *2</td>
<td>Physical Education 2b, *2</td>
</tr>
</tbody>
</table>

† Required for degree
‡ Required for certification
**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Biochemistry 9, 2 †2</td>
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<td>Biochemistry 8, 3 †4</td>
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<tr>
<td>English 3</td>
<td>3</td>
<td>English 4</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 5, 2 †4</td>
<td>4</td>
<td>Home Economics 6, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Zoology 1, 2 †4</td>
<td>4</td>
<td>Physiology 12, 2 †4</td>
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<tr>
<td>Elective</td>
<td>5</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education 3b, *2</td>
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<td>Physical Education 4b, *2</td>
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**JUNIOR YEAR**

**Fall Semester**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Bacteriology 1, †6</td>
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<td>Home Economics 8, †6</td>
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<tr>
<td>Bacteriology 3</td>
<td>2</td>
<td>Home Economics 10, 3 †4</td>
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<tr>
<td>Food Analysis 7, †6</td>
<td>3</td>
<td>Home Economics 14</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 7, 2 †4</td>
<td>4</td>
<td>Physics 8, 4 †2</td>
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</tr>
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<td>Elective</td>
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<tr>
<td>Physical Education 5b</td>
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<td>Physical Education 6b</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Home Economics 17, 1 †4</td>
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<td>Home Economics 12</td>
<td>4</td>
</tr>
<tr>
<td>*Home Economics 21, *9</td>
<td>3</td>
<td>Home Economics 18, 1 †4</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>11</td>
<td>Elective</td>
<td>10</td>
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</table>

*Home Economics 22 (Household Administration) may be taken in the spring semester instead of Home Economics 21 in the fall.

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 17, 1 †4</td>
<td>3</td>
<td>Home Economics 12</td>
<td>4</td>
</tr>
<tr>
<td>*Home Economics 21, *9</td>
<td>3</td>
<td>Home Economics 18, 1 †4</td>
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<tr>
<td>Elective</td>
<td>11</td>
<td>Elective</td>
<td>10</td>
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</table>

Additional Requirements:

Four hours of history, three of sociology, and two of economics must be elected sometime during the four years, giving a total of 110 hours of required work and 38 hours of electives.
# Curriculum in Home Economics Education

**FRESHMAN YEAR**

### Fall Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
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<tr>
<td>Chemistry 5, or 7</td>
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<td>English 1</td>
<td>3</td>
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<tr>
<td>History 7</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 1, 2</td>
<td>4</td>
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<td>Home Economics 3, 1</td>
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<tr>
<td>Home Economics 13</td>
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### Spring Semester

<table>
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<tbody>
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<td>Chemistry 6 or 8</td>
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<td>History 8</td>
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<td>Home Economics 2, 2</td>
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<td>Home Economics 4, 1</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Biochemistry 9, 2</td>
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<tr>
<td>English 3</td>
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<td>Home Economics 5, 2</td>
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<td>Psychology 1</td>
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<td>Zoology 1, 2</td>
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<td>Physical Education 3b</td>
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<table>
<thead>
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<td>Psychology 2</td>
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**JUNIOR YEAR**

### Fall Semester

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<tbody>
<tr>
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<td>Bacteriology 3</td>
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<td>Food Analysis 7</td>
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<td>Home Economics 9</td>
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### Spring Semester

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<tbody>
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<td>Home Economics 10, 3</td>
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<tr>
<td>Home Economics 14</td>
<td>3</td>
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<td>Physics 8, 4</td>
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### SENIOR YEAR

<table>
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<th>Subject</th>
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<td>Home Economics 11, 1 †4</td>
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<td>Home Economics 17, 1 †4</td>
<td>3</td>
<td>Home Economics 18, 1 †4</td>
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</tbody>
</table>

*Home Economics 22 (Household Administration) may be taken in the spring semester instead of Home Economics 21 in the fall.

**Education 27 (Practice teaching) may be taken in the fall instead of Education 28 in the spring.

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### Special Courses in Agriculture and Home Economics

The Special Courses in Agriculture and Home Economics are designed for young men and women who cannot well spend four years in preparation, but who desire to secure special training in this line. No fixed schedule of studies is prescribed, but students may elect along the line of horticulture, dairying, poultry management, veterinary science, agricultural chemistry, bacteriology, farm management, general agriculture, or home economics.

Persons not candidates for a degree who desire to take special studies may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to pursue them. 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. If they subsequently desire to become candidates for a degree, they will be required to meet all the entrance requirements.

The annual expenses for courses of one year or more are the same as those for students in the four-year curricula.

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### Two-Year 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 as in the four-year curricula, but the work is of a more elementary nature. All the classes are separate and distinct from the four-year classes, and in no case will college credit be allowed for work done in the School Course.
There are no entrance examinations required of those who desire to enter the School Course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration.

The practical side of this work is strongly emphasized, and since students are expected to be able to do work and handle men, 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.

**First Year**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
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<tr>
<td>Business Arithmetic</td>
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<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Farm Crops, 3 *3</td>
<td>4</td>
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<tr>
<td>Forge Work, *3</td>
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<tr>
<td>Fruit Handling, 3 *3</td>
<td>4</td>
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<tr>
<td>Poultry Husbandry, 2 +2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
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<td>Dairy Husbandry, 3 *3</td>
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<tr>
<td>English</td>
<td>3</td>
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<tr>
<td>Farm Botany</td>
<td>2</td>
</tr>
<tr>
<td>Fruit Growing, 3 *3</td>
<td>4</td>
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<tr>
<td>Poultry Husbandry, 2 +2</td>
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<td>Soils and Fertilizers, 3 *3</td>
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**Second Year**

<table>
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<tr>
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<tr>
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<tr>
<td>Farm Chemistry</td>
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<tr>
<td>Farm Engineering and Mechanics, 1 *3</td>
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<tr>
<td>Farm Management, 2 *3</td>
<td>3</td>
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<td>Poultry Husbandry</td>
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<tr>
<td>Vegetable Gardening, 3 *3</td>
<td>4</td>
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<tr>
<td>Veterinary Science</td>
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<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Husbandry, 3 +2</td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>2</td>
</tr>
<tr>
<td>Farm Crops</td>
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<td>Farm Machinery, 1 *3</td>
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<td>Forestry</td>
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<td>Insects</td>
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<td>Poultry Husbandry</td>
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<tr>
<td>Small Fruit Culture and Plant Propagation, 3 *3</td>
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<tr>
<td>Veterinary Science</td>
<td>3</td>
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**Short Winter Courses in General Agriculture, Dairying, Horticulture, and Poultry Management**

Owing to the lack of proper housing facilities, it has been found necessary to suspend these courses. It is hoped that conditions will soon permit a resumption of the work.
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 or more sessions are given up to problems of rural betterment. A section is arranged where home economics for farmers' wives is taught. Dates and programs may be secured each year by addressing the College of Agriculture.

Department of Agricultural Extension

This department offers correspondence courses, lecture courses, demonstration work, cooperative tests, and extension schools in agriculture. This work is intended to give direct help to those on the farm and in the home; to aid those who desire definite instructions in practical agriculture, animal and dairy husbandry, poultry husbandry, home economics, forestry and horticulture. It supplements the teaching and experimenting of the College of Agriculture and the Agricultural 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 publications of the college, the U. S. Department of Agriculture, or 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 7—Elementary Agriculture
Course 8—Home Economics
Course 10—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.

Extension 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-day schools in various parts of the State.

Correspondence

The College of Agriculture welcomes inquiries on practical agricultural, forestry, and home economics topics. Extension bulletins dealing with different phases of these subjects are published at frequent intervals throughout the year and will be sent without cost to persons applying for them. A list of bulletins and circulars available for distribution will be forwarded on request.
Departments of Instruction

Note.—A star (*) before the time designated for a course indicates that three or sometimes more hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit.

If the student so elects, he may prepare a thesis upon some subject related to his major work. The subject should be selected and approved by the head of the department before the close of the junior year.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

Courses numbered 1-50 are for undergraduates only; courses numbered 50-100 are for graduates and undergraduates; courses numbered 100 and above are primarily for graduates.

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Professor Merchant

52. Farm Accounting.—A study of all forms of farm records; farm inventories, cash accounts, single-enterprise cost accounts, complete farm cost accounting system, miscellaneous records. Special emphasis will be given to the interpretation of results and their practical application in the management of farms. Class room, one hour a week; laboratory, *six hours a week.

73. Agricultural Economics.—A general course taking up the economic and social problems of agriculture; importance of agriculture in U. S.; demand and supply; labor, machinery, equipment, rural credits, transportation problems, price fluctuations, speculation, land tenure, rent and systems of renting, county agent and farm bureau, state aid, taxation, protective tariff, foreign competition, principles of marketing, world's food supply. Class room, three hours a week.

74. Farm Management.—Study of types of farming; farming as a business; size of business; balance; production rates; labor efficiency; crop rotations; machinery; farm layout; building arrangement; farm credit and its uses; choosing and buying a farm; ways of starting to farm; study farm organization and management of specific farms in the vicinity. Class room, three hours a week; laboratory, *three hours a week.
76. Marketing.—A study of the present marketing structure giving emphasis to agriculture. Detailed study of the marketing of some of the more important agricultural crops. Cooperative Marketing is included. Class room, *three hours a week*.

**AGRICULTURAL EDUCATION**

**Professor Hill**

*Note.*—The passage of the Smith-Hughes bill has greatly stimulated the introduction of agricultural courses in secondary schools. No one is eligible to teach these courses unless he has taken an approved teacher-training course. There are two such teacher-training courses in the College of Agriculture.

The first course is designed for those who wish to specialize in agricultural education. It leads to the degree of B. S. in Agricultural Education. The curriculum for agricultural education may be found on a preceding page, along with the other curricula.

The second course is designed for those who wish to specialize in some other line than agricultural education. Such students will major in another department, but will take their electives from the curriculum in Agricultural Education. The following electives must be taken by all students regardless of their major subject: Education 55, Education 48, Agricultural Education 3, Agricultural Education 4, Agricultural Education 8, Mechanical Engineering 5, Mechanical Engineering 6, Rural Sociology 82, Forestry 2, Horticulture 1, Horticulture 9, Horticulture 20, Farm Management 74, Animal Industry 7.

Students who elect either of the teacher-training courses must have had at least two years of practical farm work since their fourteenth birthday. One of these years must include all the year round experience. Experience on the home farm while attending school satisfies the requirement. Those who do not meet this requirement of practical experience will be allowed to take the course only with the understanding that they will be expected to get this experience before they will be allowed to teach.

3. **Special Methods in Teaching Agriculture.**—The following topics are given consideration: The Smith-Hughes Act; the agricultural curriculum; seasonal sequence of topics; lesson plans; supervised study; laboratory work; field trips; room and equipment; supervised practical work; records. Class room, *two hours a week*; laboratory, *two hours a week*.

4. **Practice Teaching.**—During the first six weeks of the spring semester the seniors will be expected to do directed teaching in an ap-
proved school. They will hand in daily lesson plans and will report on how these work out. While engaged in this work they will be given an allowance to pay for their traveling expenses and board. *Four hours credit.*

6. **Principles of Agricultural Education.**—This course deals with the history of agricultural education; a study of the purposes of agricultural education; types of schools; the rural school; consolidation of schools; the agricultural college; the extension service; prevocational agriculture, etc. Class room, *two hours a week.*

8. **Practice Teaching.**—This course is for those who are majoring in other departments. It calls for observation of teaching and also for directed teaching in an approved school. *Two hours credit.*

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**AGRONOMY**

**Professor Simmons; Assistant Professor Helmick; Mr. Swift**

**Soils**

1. **Soils.**—Lectures and recitations on the origin, types, physical properties, moisture content, and distribution of soils, and their relation to crop production. The fundamental principles underlying soil management for soil conservation and improvement will be studied. Class room, *two hours a week*; laboratory, *three hours a week.*

   Mr. Simmons, Mr. Swift

3. **Soil Fertility.**—This course deals with stable manures, green manures, commercial fertilizers, and soil amendments; also a study of soil organisms as affecting the plant food in the soil. *Two hours a week.*

   Mr. Swift

51. **Soil Surveying and Mapping.**—A study is made of soil types, the principles of correlation and methods of soil surveying and mapping. Lecture, *two hours a week*; laboratory, *three hours a week.* Elective.

   Mr. Simmons, Mr. Swift

54. **Soil Fertility.**—Soil improvement investigation. A review of the experimental work in this country and abroad. The application of these results to soil improvement and crop production problems. Prerequisites, Courses 1 and 3. *Two hours a week.*

   Mr. Simmons, Mr. Swift

71. **Agricultural Engineering and Rural Architecture.**

   (a) **Agricultural Engineering.**—Farm surveying and leveling; the plotting of farms and measurements of land; a study of drainage; estimating the investment and returns from a system of drainage; the making of roads; road materials.
(b) Rural Architecture.—The planning, designing, location, and construction of farm buildings, water systems, sewerage, and concrete construction. Class room, two hours a week; laboratory, *three hours a week. Mr. Simmons, Mr. Swift

72. Farm Mechanics and 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. Class room, two hours a week; laboratory, *three hours a week. Mr. Simmons, Mr. Swift

74. Farm Power.—A course dealing with the application of power to farm operations. The aim is to enable the student to understand the operation and care of the various forms of motors used for agricultural purposes. Animal as well as other motor power will be studied. The gas engines will be studied in the laboratory. Class room, two hours a week; laboratory, *three hours a week. Mr. Simmons, Mr. Swift

Crops

11. Field Crops.—A general course including a study of the most important cereal, grass, forage, and root crops, their adaptation to systems of rotation, culture and uses, with special reference to New England conditions. Class room, two hours a week; laboratory, †two hours a week. Mr. Helmick

12. Field Crops.—A laboratory course in seed and grain identification, improvement by grading, testing, selecting, and preparing seed for planting. A collection of weeds and their seeds will be required. †Four hours a week. Mr. Helmick

14. Field Crops. Corn.—A course dealing with the production of corn and the care and marketing of the crop. Types and varieties of both field and sweet corn will be considered in this course. Class room, one hour a week; laboratory, †two hours a week. Mr. Helmick

15. Field Crops. Roots and Tubers.—A course dealing with the production, storage, and marketing of roots and tubers. Class room, one hour a week; laboratory, †two hours a week. Mr. Helmick

16. Field Crops. Grasses and Forage Crops.—Lectures and laboratory work dealing with the grasses and forage plants. A study of the hay crop and markets; soil systems, and their adaptation to local conditions. Class room, one hour a week; laboratory, †two hours a week. Mr. Helmick
18. **Field Crops. Crop Improvement.**—A study of the principles and methods involved in field crop improvement. The work of experiment stations in this country and abroad is reviewed. Prerequisites, Courses 11 and 12. *Two hours a week.* Mr. Helmick

20. **Field Crops. Judging and Commercial Grading.**—Comparative judging of corn, small grains, and potatoes, according to standards. A study of market grade requirements. Lecture, *one hour a week*; laboratory, †*two hours a week.* Required of Agronomy majors only. Mr. Helmick

62. **Systematic Field Crops.**—A course designed for advanced or graduate students preparing for experimental work, teaching, or plant breeding. Students will be expected to grow and collect material under the supervision of the department during the summer months. Prerequisite, adequate training in botany and field crops. Time must be arranged with the instructor not later than the middle of the junior year. *Two or more hours a week.* Mr. Helmick

63. **Systematic Field Crops.**—A continuation of Course 62. *Two or more hours a week.* Mr. Helmick

65. **Seminar.**—A study of recent literature, problems, and experiments pertaining to agronomy and farm management. *One hour a week.* Mr. Simmons, Mr. Helmick, Mr. Swift

66. **Seminar.**—A continuation of Course 65. *One hour a week.* Mr. Simmons, Mr. Helmick, Mr. Swift

67, 68. **Thesis.**—*Three hours a week.*

**ANIMAL INDUSTRY**

Professor Corbett; Associate Professor Dorsey; Assistant Professor Gardner; Mr. Hall

**Animal and Dairy Husbandry**

2. **Types and Breeds of Farm Animals.**—A study of the types and breeds of farm animals. A course covering the history, development, and characteristics of farm animals. *Two hours a week.* Mr. Corbett

3. **Care, Feed, and Management of Live Stock.**—A course dealing with the selection, breeding, growing, and maintenance of horses, cattle, sheep, and swine. Prerequisites, Courses 2 and 4. *Two hours a week.* Mr. Corbett

4. **Live Stock Judging.**—This course is designed to acquaint the students with the types and breed characteristics of farm animals, by use of the score card, comparative judging, and the selection of breeding stock. To be taken in connection with Course 2. †*Two hours a week.* Mr. Hall
5. **Live Stock Judging.**—A continuation of Course 4. †*Two hours a week.*

6. **Live Stock Feeding.**—A study of the general principles of nutrition as applied to live stock, composition of feed stuffs, comparison and use of feeding standards, calculating rations, methods of feeding for economic production. Prerequisites, Course 3, Biochemistry 1 and 2. *Two hours a week.*

7. **General Dairying.**—Given by lectures, assigned reading, recitations, and laboratory practice. Milk; its secretion, composition, properties, pasteurization, separation; dairy practices in handling milk and cream, dairy equipment, use of common dairy machinery; preparation of starters; test of dairy products for fat (Babcock method), acidity, total solids, common adulterations, and preservatives. Class room, *two hours a week*; laboratory, †*four hours a week.*

8. **Butter Making.**—Lectures and laboratory practice in starter making, cream ripening, churning, and preparing butter for market. Prerequisite, Course 7. Class room, *one hour a week*; laboratory, †*six hours a week.*

9. **Cheese Making.**—Lectures, recitations, and laboratory practice in the manufacture and curing of various types of cheese, including Cheddar and soft cheeses adapted to the New England trade. The laboratory work requires six consecutive hours. Prerequisite, Course 7. Class room, *two hours a week*; laboratory, †*six hours a week.*

10. **Condensed Milk.**—A study of the manufacture of unsweetened and sweetened condensed milk and milk powder. Consideration will be given to sanitary control of milk supply, factory methods, defects in products, and economic phases of the business. Prerequisite, Course 7. *Two hours a week.*

11. **Market Milk.**—A study of the market milk business from the standpoints of production, of supply, sanitary control, transportation, processing, delivery, organization, and economic aspects. Prerequisite, Course 7. *Two hours a week.*

51. **Dairy Technology.**—An advanced study of milk products and byproducts, methods of manufacture and processing, scrutiny of recent literature relating to advances in dairy technique. Given by lectures, recitations, assigned readings, and round table conferences. Prerequisite, Course 7. *Three hours a week.*

52. **Advanced Live Stock Judging and Management.**—A laboratory course in which the individual student gets experience in handling live stock and preparation of stock for the show ring and market. As far as possible, visits will be made to live stock farms. †*Two hours a week.*
53. **Advanced Live Stock Feeding and Management.**—Nutrition and feeding experiments, as well as the methods and practices of the most successful feeders in the production of milk, meat, and the rearing of horses, are studied. *Two hours a week.*  
Mr. Corbett

54. **Advanced Live Stock Feeding.**—A continuation of Course 53. *Two hours a week.*  
Mr. Corbett

55, 56. **Thesis.**—*Three hours a week.*

58. **Ice Cream Making.**—Lectures and recitations on the history and methods of the manufacture of ice cream and ices. Laboratory practice in the manufacture of ice cream and ices. Prerequisite, Course 51. *Class room, one hour a week; laboratory, *three hours a week.*  
Mr. Dorsey

60. **Advanced Animal Breeding.**—Principles and theories of breeding as applied to the live stock industry; study of pedigrees and records by the use of the different herd books; an economic study of the generative systems of domestic animals. Prerequisites, Course 3, and Veterinary Science 6. *Two hours a week.*  
Mr. Corbett

61. **Advanced Animal Industry.**—A consideration of market classes and types, pasture and feed lot management, farm and packing house methods of preparing animal products for the market. Prerequisite, Course 6. *Two hours a week.*  
Mr. Corbett

63. **Advanced Dairy Products Testing.**—The work in this course comprises the study of various methods for testing dairy products for composition as practiced in the dairy industry and the study of the practical application of such new tests as may be developed in the future. Special attention is given to instruction in the Mojonier test and the modernized Gerber test. Prerequisite, Course 51. Open to senior major students in the Department of Animal Industry and to graduate students in that department. Laboratory, lectures, and assigned reading. Laboratory, *two hours a week.*  
Mr. Dorsey

64. **Advanced Dairy Products Testing.**—A repetition of Course 63 for those students unable to include it in the fall semester. Prerequisite, Course 51. Laboratory, *two hours a week.*  
Mr. Dorsey

**Poultry Husbandry**

1. **Types, Breeds, and Management of Poultry.**—Lectures and recitations on the origin and development of the types, breeds, and varieties of fowl, ducks, geese, and turkeys; the general care, feed, and management of farm poultry; and the marketing of poultry products. Laboratory exercises include practice in poultry management, poultry judging, and the preparation of poultry products for market. *Class room, two hours a week; laboratory, *two hours a week.*  
Mr. Gardner
2. **Types, Breeds, and Management of Poultry.**—A continuation of Course 1. Class room, *one hour a week*; laboratory, †*two hours a week.*

   **Mr. Gardner**

3. **Commercial Poultry Farming.**—Lectures and recitations on the business of poultry farming; the systems and operations in use on large poultry farms; the planning of specialized poultry farms. Class room, *one hour a week*; laboratory, †*two hours a week.*

   **Mr. Gardner**

4. **Poultry Feeding.**—Lectures and recitations on the general principles of nutrition as applied to poultry; poultry feeds; calculating rations; estimating cost of feeds and feeding, and methods of feeding for economical production. Prerequisites, Courses 1 and 2. Class room, *two hours a week.*

   **Mr. Gardner**

5. **Poultry Literature.**—A study of experimental data on poultry management. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week.*

   **Mr. Gardner**

6. **Incubation and Brooding.**—Lectures and recitations on the principles of incubation and brooding. Laboratory practice in incubator and brooder management. Prerequisites, Courses 1 and 2. Class room, *three hours a week*; laboratory, †*two hours a week.*

   **Mr. Gardner**

7. **Poultry Breeding.**—Lectures and recitations on the principles of breeding as applied to poultry; the inheritance of egg productivity; systems of breeding; mating of utility and exhibition poultry and care of breeding stock. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week*; laboratory, †*two hours a week.*

   **Mr. Gardner**

51, 52. **Thesis.**—*Three hours a week.*

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**Bacteriology and Veterinary Science**

Professor Russell; Associate Professor Hitchner

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. Required of students taking major work in Agriculture. Course 3 must be taken in conjunction. †*Six hours a week.*

   **Mr. Russell, Mr. Hitchner**

2. **Bacteriology.**—Similar to Course 1. Offered for students in the College of Technology and others who may elect it. Required for juniors in Horticulture. Special emphasis will be placed upon bacteriology of water and sewage. Prerequisite, Course 3. †*Six hours a week.*

   **Mr. Russell, Mr. Hitchner**
3. Bacteriology.—A lecture course open to all students. It should be elected by students taking Course 1 as well as by students not taking a laboratory course. Subjects considered will include the 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. Two hours a week. Mr. Hitchner

4. Elementary Sanitary Bacteriology.—A laboratory course open to students majoring in sanitary engineering. The course will include work in general bacteriological technique with special emphasis upon the microbiology of water and sewage. Laboratory, †four hours a week. Mr. Hitchner

12. Veterinary Science.—This course deals with the anatomy, physiology, and diseases of poultry. Two hours a week. Mr. Russell

14. 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. Mr. Russell

15. Veterinary Science.—A continuation of Course 14. Prerequisite, Course 14. Two hours a week. Mr. Russell

16, 17. Veterinary Science.—A clinic open to all students studying veterinary science. One hour a week. Mr. Russell

19. Veterinary Science.—Veterinary materia medica and pharmacy. Two hours a week. Mr. Russell

52. Bacteriology.—A detailed study of the physiological, morphological, biochemical, and serological activities of bacteria; isolation and identification of pathogens together with animal inoculation and serological tests. Prerequisites, Courses 1 or 2 and 3. Class room one hour a week; laboratory, †four hours a week. Mr. Hitchner

53. Bacteriology.—A study of the physiology of bacteria; bacteriological analysis of water; and a study of soil bacteria. Prerequisites, Courses 1 or 2 and 3. Class room, one hour a week; laboratory, †four hours a week. Mr. Hitchner

54. Bacteriology.—A course which will consider such dairy experiments as the effect of pasturization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemic tests for quality of milk; study of effect on separators, clarifiers, coolers, etc., on the bacterial content of milk and cream. Prerequisite, Course 52. Class room, one hour a week; laboratory, †four hours a week. Mr. Hitchner

55. Bacteriology.—An experimental consideration of ammonification, nitrification, and denitrification in the soil; study of relation of bacteria to soil fertility; symbiosis. Prerequisite, Course 52. †Four to six hours a week. Mr. Hitchner
57. **Bacteriology.**—Lectures and reference work upon various problems relating to bacteria and soil fertility; discussion of ammonification, nitrification, and denitrification in the soil; a consideration of symbiosis. Open only to students taking Course 55. Prerequisite, Course 53. *Two hours a week.*

101, 102. **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.

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**BIOLOGICAL AND AGRICULTURAL CHEMISTRY**

**Professor Merrill; Assistant Professor Smith**

1. **Biochemistry.**—Lectures and recitations on the composition of the plant; the source, nature, and assimilation of plant food; fermentation, its nature, effects, and control. *Two hours a week.*

2. **Biochemistry.**—A continuation of Course 1. The composition of the animal body and of food materials; the adaptation of food to animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy. Class room, *three hours a week*; laboratory, *four hours a week.*

3. **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 nonmetallic minerals; and a study of the rocks and their uses as building stone, as road material, and as sources of lime and cement. *Two hours a week.*

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

6. **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; the composition of insecticides and fungicides; the chemistry of milk and other dairy products. Prerequisite, Course 1. *Two hours a week.*

7. **Food Analysis.**—A brief introduction to quantitative analysis, with laboratory practice in the analysis of foods; lectures on food adulteration and methods for its detection. Laboratory, *six hours a week.*

**Mr. Merrill, Mr. Smith**
8. Biochemistry.—An abridged course, including a study of the protein, fats, and carbohydrates, the digestive enzymes and processes, the tissues and secretions of the body. For Home Economics students only. Class room, three hours a week; laboratory, four hours a week.  
Mr. Merrill, Mr. Smith

9. Organic Chemistry.—A brief course designed for students in Agriculture and Home Economics. Class room, two hours a week; laboratory, two hours a week.  
Mr. Smith

11. Agricultural Analysis.—A brief laboratory course designed to give the student a working knowledge of the methods employed in the quantitative analysis of fertilizers, and the more common agricultural products. Opened only to juniors and seniors in Agriculture. Prerequisites, Courses 1, 2, 6, and 9. Laboratory, four hours a week.  
Mr. Smith

51. Biochemistry.—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; the chemical processes and methods of investigation by which these subjects are studied. Prerequisites, Chemistry 51 and 52. Three hours a week.  
Mr. Merrill

52. Laboratory Biochemistry.—A study of the carbohydrates, fats, and protein bodies; the digestive enzymes; the blood, muscles, bones, and other tissues of the body; milk, bile, and other secretions. A continuation of the preceding course. Four hours a week.  
Mr. Smith

60. Agricultural Analysis.—A course in the 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. Prerequisites, Chemistry 51, 52, and 61. Eight hours a week.  
Mr. Smith

BIOLOGY

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

FORESTRY

Professor Briscoe; Assistant Professor Chapman; Mr. Demeritt

1. Economics of Forestry.—The importance and scope of the subject; the influence of forests on the conservation and distribution of water; influence on soils, topography, and public health; the relation to agricul-
ture, stock raising, mining, railroads, manufactures, and industries in general; the character, extent and distribution of forest resources, national, state and private. Required of all freshmen majoring in forestry, and open to all students. *Two hours a week.*  

2. Woodlot Forestry.—The general principles of forestry, with special reference and application to the farm woodlands, particularly in this region. Lectures and text book work in elementary systems of cutting, estimating, protection and reforestation. Especially for agricultural students. Open to all students. *Two hours a week.*  

3. Wood Identification and Uses.—The identification and classification of the economic woods of the United States, based on simple lens inspection; the technical qualities of various species and their uses in the arts and trades; their commercial production. Prerequisites, Biology 2, 67, and 68. *Two hours a week.*  

4. Wood Preservation.—The durability and seasoning of native woods; preservatives in commercial use; methods of operation and equipment of preserving plants. Special attention given to posts, ties, poles, paving-blocks and structural timbers. Prerequisites, Biology 2, 67, and 68. First half of semester. *Two hours a week.*  

5. History of Forestry.—The development of forestry in European countries and in the United States. First half of semester. *Two hours a week.*  

6. Forest Mensuration.—Lectures and recitations. Instruction in the theory and application of forest measurements. Calculation and computations from data obtained in the field work. Course 8 to accompany this course. *Two hours a week.*  

8. Forest Mensuration Field Work.—Practical field work to be taken in connection with Course 6. The use of instruments, scaling and estimating. *Six hours a week.*  

9. Forest Products.—Dealing with forest products other than logs and lumber, such as pulp-wood, veneers, shingles, lath, tight and slack cooperage, hoops and headings, excelsior, vehicle woods, spool stock, turpentine, tannin, gums, syrups, dye-woods, and charcoal. Methods of utilization, markets and values. First half of semester. *Two hours a week.*  

10. Forest Protection.—Systems of fire protection practiced by the federal and state governments, and by individuals and associations; protection against other natural enemies of the forest such as insects, fungi, wind, animals and weed growth. First half of semester. *Two hours a week.*  

11. Forest Mensuration.—A continuation of Course 6, taking up the study of age, growth, taper, form-factors, yield and volume tables. *Two hours a week.*
12. Practice of Forestry.—Applied systems of silviculture and management considered in relation to the commercially important species and types of forest in the United States; discussions of management as practiced in Europe, and of the application of such systems to forest conditions in this country. Forestry seniors only. *Two hours a week.*

Mr. Briscoe

13. Forest Mensuration Field Work.—To be taken in connection with Course 11. Collection of data for making a map of an assigned tract; studies of age, growth and yield under different conditions and in various types; determination of form factors; construction of volume tables. *Six hours a week.*

Mr. Chapman

14. Advanced Nursery Practice.—Additional field-work in nursery and actual forest planting operations. For those who have taken or are taking Forestry 18, and show special adaptability for the work. Second half semester. *Six hours a week.*

Mr. Chapman

15. Silviculture.—A study of silvics, the life factors determining the character and form of forest vegetation. The development of forest types and the silvical characteristics of stands. Cultural measures in the forest; the forest regions of the United States. Prerequisites, Biology 67 and 68. First half of semester. *Two hours a week.*

Mr. Briscoe

16. Silviculture.—A continuation of Course 15, with special attention to the silvicultural systems of management; the application of thinnings, methods of reproduction both natural and artificial. *Two hours a week.*

Mr. Briscoe

17. Silviculture Field Work.—Assigned problems in connection with Course 15. Studies of tolerance. Special studies and practical work in the forest; the preparation of a type map and detailed silvicultural report. First half of semester. *Six hours a week.*

Mr. Briscoe

18. Nursery Practice.—To be taken in connection with Course 15. Tests of the germinating qualities of seeds of forest trees, and a study of seeds and seedlings. Planting and transplanting in the State Forest Nursery (a minimum of 72 hours actual time regardless of schedule changes on account of weather); practice in field planting. *Six hours a week.*

Mr. Briscoe

19. Lumbering.—The lumber industry in the United States considered from the economic standpoint; an account of the methods of logging in different regions. Text book and lectures. Forestry seniors only. First half of semester. *Two hours a week.*

20. Forest Finance.—Business principles applied to forest management. Forest valuation; the theory of the normal forest; calculations for sustained yield and continuous revenue from forest resources; forms
for accounts and cost keeping; preparation of reports for federal income
tax on timber lands. Forestry seniors only. *Two hours a week.

Mr. Briscoe

21. Lumbering Field Work.—To be taken in connection with
Course 19. Inspection of pulp mills and lumbering operations, during the
first half of the semester. Inspection, detailed study and report of an
assigned typical logging operation. For credit a student must spend at
least six ten hour days in a lumber camp. First half of semester. *Six
hours a week.

22. Policy and Laws.—National and state Forestry policy and ad-
ministration; relation of government, corporations, and individuals in re-
gard to forestry policies and applied forest management; laws of the
federal government and of the several states concerning forests and fore-
try. Forestry seniors only. *Two hours a week.

Mr. Briscoe

23. Current Forestry Literature.—Reviews of periodicals, books
and current forestry literature; preparation of a card index under subject
and author headings. Forestry seniors only. *One hour a week.

Mr. Demeritt

*One hour a week.

Mr. Demeritt

25, 26. Thesis.—Credits of from 2 to 6 hours will be allowed stu-
dents desiring to elect thesis work in forestry. Work on original prob-
lems and investigations may be undertaken with the approval of the de-
partment. *Time to be arranged.

29. Lumber Industry.—A course for seniors in Forestry who have
taken Courses 19 and 21, dealing with milling and marketing problems of
the lumber industry in America. *Two hours a week.

Mr. Demeritt

Courses in Camp

31. Logging Engineering.—A course in practical logging as applied
to a typical spruce pulp-wood operation in Maine. *Sixteen hours a week,
second half semester.

Mr. Demeritt

33. Forest Management.—Business principles involved in the man-
agement of a forest area, including organization, regulation, and adminis-
tration, leading to the preparation of a complete working-plan for the
area. *Sixteen hours a week, second half semester.

Mr. Demeritt

35. Cruising and Mapping.—The making of topographic maps and
detailed estimates of standing timber. Methods of locating trails, high-
ways, bridges, telegraph lines, ranger and lookout stations, and fire-lines.
Special emphasis being placed on methods producing practical results of
sufficient accuracy, at a minimum cost. *Sixteen hours a week, second
half semester.

Mr. Demeritt
HOME ECONOMICS

Professor McGinnis; Associate Professor Greene; Assistant
Professor Bancroft; Miss Campbell

1, 2. Textiles and Clothing.—A study of fibers and fabrics from a historic, economic, and social standpoint. The laboratory work consists of the making of plain garments, involving drafting and design, and selection of materials. Recitation, two hours a week; laboratory, four hours a week.

Miss Bancroft, Miss Campbell

3. Design.—The object is to develop the appreciation of harmony of line, space, and color. Recitation, one hour a week; laboratory, two hours a week.

Miss Bancroft

4. Design.—A continuation of Course 3. Recitation, one hour a week; laboratory, four hours a week.

Miss Bancroft

5, 6. Foods.—A study of food composition, cost, and the principles involved in preparation. The laboratory work consists in the preparation of the various types of foods. Prerequisites, Chemistry 1 or 3, 5, 2 or 4, and 6. Recitation, two hours a week; laboratory, four hours a week.

Miss Greene, Miss Campbell

7. Dress.—Economics, hygiene, design, and color are studied in their relation to dress. The laboratory work consists in designing and drafting of pattern, selection of materials, and the making of dresses. Prerequisites, Courses 1, 2, 3, and 4. Recitation, two hours a week; laboratory, four hours a week.

Miss Bancroft

8. Dress.—A continuation of Course 7. Laboratory, six hours a week.

Miss Bancroft

9. Sanitation.—The situation of the house regarding general surroundings; sanitary conditions in and around the house, ventilation, water supply, heating, and plumbing; the householder's interest in public sanitation and hygiene. Prerequisites, Bacteriology 1 and 3. Recitation, three hours a week.

Miss McGinnis

10. Dietetics.—The chemical, economic, and physiological principles of human nutrition are studied and applied to the feeding of individuals and families under varying conditions. The course includes the study of infant feeding and of normal and undernourished children. Prerequisites, Courses 5 and 6, and Biochemistry 7. Recitation, three hours a week; laboratory, four hours a week.

Miss Greene

11. Foods.—Continuation of Courses 5, 6, and 10. Preservation of foods; nutrition in disease; investigation in foods, each student choosing a special problem. Recitation, one hour a week; laboratory, four hours a week.

Miss Greene
12. Household Management.—Brief history of the family, economic and social principles of the household, standards of living, budgets, the training of children. Open to seniors. Recitations, *four hours a week*. Miss McGinnis

13. Handwork.—Problems in industrial art, basketry, knitting, embroidery, and hand sewing. Laboratory, †four hours a week. Miss Bancroft

14. Child Care and Child Welfare.—A study of the physical, mental and social needs of the child, including prenatal care, postnatal care, preschool age, personal hygiene, adolescent period, some problems in sex-education, the responsibility of the family and community to the child. *Three hours a week*. Miss McGinnis

15. Millinery.—The principles of design and color are applied to millinery. The work consists of a consideration of materials, the use of straw braids, the covering of frames, and the making and application of trimmings. Open only to juniors and seniors. Laboratory, †two hours a week. Miss Bancroft

16. Home Economics Education.—A brief survey of the education of women; the history of Home Economics and its place in education; the organization of the curriculum; planning courses of study; equipment; budgets; text books. Open to seniors. *Three hours a week*. Miss Greene

17, 18. House Construction and Furnishing.—The evolution of the house, of house furnishings, their color, design and cost. The laboratory work consists in the planning of the house, making plans and estimates for house furnishings, and visiting shops. Open to seniors. Recitation, *one hour a week*; laboratory, †four hours a week. Miss Campbell

19, 20. Thesis.—Different phases of home economics. Individual problems. Open to seniors. *Two to four hours a week*. Miss McGinnis

21, 22. Household Administration.—Each senior lives in the Practice House one semester. The students do the work including planning, buying, preparation and serving of meals; household accounts; care of the house. They also have entire charge of the care and feeding of a baby who lives in the house. *Three credit hours*. Miss McGinnis

25. Principles of Home Economics.—An introductory course in the principles of foods, nutrition, clothing, design and budgets, applied to efficient individual living. Open only to Arts and Sciences students. *Three hours a week*. Miss McGinnis
HORTICULTURE

Professor Sweetser; Mr. Wiggin

1. Commercial Pomology.—A course in 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. Class room, two hours a week; laboratory, *two hours a week.

Mr. Sweetser

2. Practical Pomology.—A study of orchard sites and soils, methods of propagating, setting, cultivating, fertilizing, pruning, and spraying. Class room, two hours a week; laboratory, *three hours a week.

Mr. Sweetser

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. Prerequisites, Courses 1 and 2. Class room, two hours a week; laboratory, *two hours a week.

Mr. Sweetser

5. 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. Class room, two hours a week; laboratory, *two hours a week.

Mr. Sweetser

7. General Floriculture.—A study of the culture, propagation, management, and care of flowers for commercial purposes. Methods of producing, shipping, marketing, and designing, will be considered. Class room, two hours a week; laboratory, *two hours a week.

Mr. Wiggin

8. Greenhouse Construction.—A study of the various types of greenhouses and the methods of construction. Estimates and plans are made for houses suitable for conservatories, private estates, and commercial floriculture. Cost and methods of installing heating systems, show rooms, and storage houses are also considered. Class room, two hours a week; laboratory, *two hours a week.

Mr. Wiggin

9. Small Fruit Culture.—A study of the bush and vine fruits, including strawberries; adapted varieties; methods of propagation, culture, harvesting, and marketing. Class room, two hours a week; laboratory, *two hours a week.

Mr. Sweetser

11, 12. Thesis.—Three hours a week.

20. Vegetable Gardening.—A course in practical vegetable growing, dealing with the production of vegetables for home use or market. Handling hot beds and cold frames will be included. Class room, two hours a week; laboratory, *two hours a week.

Mr. Wiggin
21. COMMERCIAL OLERICULTURE.—This course is designed to include harvesting, marketing, and systematic study of types and varieties of vegetables; also storage and care of vegetables for seed production. Prerequisite, Course 20. Class room, two hours a week; laboratory, †two hours a week.

Mr. Wiggin

50. PLANT BREEDING.—A course in plant breeding, as applied to variation, selection and hybridization, adapted to garden and fruit crops. Prerequisite, Biology 7. Two hours a week.

Mr. Sweetser

51, 52. SEMINAR.—Preparation, presentation and discussion of horticultural problems. Special emphasis is given to problems in marketing. Required of students taking major work in horticulture. Open to any student in the university. One hour a week.

54. FLORICULTURE.—A course designed to give practical knowledge of the propagation and culture of annuals, herbaceous perennials, bulbs, roses, bedding plants, and other garden plants, with especial reference to care of public parks and private estates. Class room, two hours a week; laboratory, †two hours a week.

Mr. Wiggin

55. FRUITS AND VEGETABLES UNDER GLASS.—A study of the various fruits and vegetables that are grown under glass. A course suited to the needs of either commercial work or private estates. Prerequisite, Course 1. Class room, two hours a week.

Mr. Wiggin

56. PLANT DISEASE CONTROL.—A course designed to acquaint the student with the various kinds and types of spray machinery, and with the preparation and application of the various sprays used in disease control. Prerequisites, Courses 1 and 2. Class room, one hour a week; laboratory, †two hours a week.

Mr. Sweetser
College of Arts and Sciences

FACULTY OF INSTRUCTION

James Stacy Stevens, M.S., LL.D., Litt.D., Dean and Professor of Physics
Lucius Herbert Merrill, Sc.D., Professor of Biological and Agricultural Chemistry
James Norris Hart, C.E., M.S., Sc.D., Ph.D., Professor of Mathematics and Astronomy
John Homer Huddilston, Ph.D., Professor of the Greek Language and Literature and Lecturer on Art History
Jacob Bernard Segall, Ph.D., Professor of French
George Davis Chase, Ph.D., Professor of Latin
Caroline Colvin, Ph.D., Professor of History
Roy Merle Peterson, Ph.D., Professor of Spanish and Italian
Robert Rutherford Drummond, Ph.D., Professor of German
Harley Richard Willard, Ph.D., Professor of Mathematics
John H Ashworth, Ph.D., Professor of Economics and Sociology
Charles Andrew Brautlecht, Ph.D., Professor of Chemistry
Harold Milton Ellis, Ph.D., Professor of English
Albert Lewis Fitch, Ph.D., Professor of Physics
Luther John Pollard, M.A., Professor of Education
Henry Marc Halverson, Ph.D., Professor of Psychology
William Sentman Taylor, Ph.D., Professor of Philosophy
Phineas Wescott Whiting, Ph.D., Professor of Biology
François Joseph Kueny, L. ès L., Professor of French
John William Draper, Ph.D., Professor of English
*Irving Hill Blake, M.A., Associate Professor of Biology
Bertrand French Brann, M.S., Associate Professor of Chemistry
Ava Harriet Chadbourne, M.A., Associate Professor of Education
*J Howard Toelle, M.A., Associate Professor of Government
*Charles Howard Batchelder, B.A., M.S., Associate Professor of Zoology
Mark Bailey, M.A., Associate Professor of Public Speaking
Albert Ames Whitmore, M.A., Associate Professor of History
*Herbert DeWitt Carrington, Ph.D., Associate Professor of German
Noah Rosenberger Bryan, Ph.D., Associate Professor of Mathematics

*On leave of absence.
Albert Morton Turner, Ph.D., Associate Professor of English
Adelbert Wells Sprague, M.A., Director of Music
Paul DeCosta Bray, Ch.E., Associate Professor of Chemistry
William Henry Eyster, Ph.D., Associate Professor of Biology
Harry Edward Farnsworth, Ph.D., Associate Professor of Physics
Harry Woodbury Smith, M.S., Assistant Professor of Biological and Agricultural Chemistry
Warren Stanhope Lucas, M.A., Assistant Professor of Mathematics
Harold Chandler White, B.S., Assistant Professor of Chemistry
Clarence Paul Hotson, M.A., Assistant Professor of English
Cornflius Cicero Janzen, M.A., Assistant Professor of Economics
William Irving Zeitler, M.A., Assistant Professor of English
Walter French, Ph.D., Assistant Professor of German
Percie Trowbridge Hopkins, Ph.D., Assistant Professor of English
Carl Everett Otto, Ph.D., Assistant Professor of Chemistry
*Marion Stephanie Buzzell, M.A., Instructor in French
Frances Elizabeth Arnold, M.A., Instructor in Spanish
Charles Floyd Whitcomb, Instructor in French
Frank Swan Beale, B.S., Instructor in Mathematics
Howard Lloyd Flewelling, B.A., Instructor in English
Irving Trefethen Richards, B.A., Instructor in English
Walter Whitmore Chadbourne, M.B.A., Instructor in Economics and Sociology
Edwin Dillmon Hull, M.S., Instructor in Biology
HeLEN Woodbridge, B.A., Instructor in Biology
Carl Alonzo Mendum, M.A., Instructor in English
Alward Embury Brown, B.A., B.S., Instructor in Physics
Rose Mary Davis, B.S., Instructor in English
Howard Theodore Engstrom, B.S., Instructor in Mathematics
Eduardo Gomez-Duran, Ph.B., B.A., Instructor in Spanish
Albert Henry Imlah, M.A., Instructor in History
Lyle Clayton Jenness, B.S., Instructor in Mathematics
Rudolph Macy, Ph.D., Instructor in Chemistry
Doris Frances Twitchell, B.A., Instructor in Education
Theodore Shirley Currier, Instructor in History and Government
Alvin Christian Eurich, B.A., Instructor in Public Speaking
Jeremiah Francis Goggin, M.S., Instructor in Chemistry
Willard Greer, Ph.D., Instructor in Chemistry
Edwin Harold Hadlock, B.A., Instructor in Mathematics
Paul Edmond Martin, M.S., Instructor in Physics
Harvey Daniel Miller, B.A., Instructor in English
Alexander Braun Cutler, Assistant Instructor in Chemistry
Pauline Perkins, B.A., Assistant Instructor in Chemistry

*On leave of absence.
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.
3. Men and women who plan to fit themselves for the profession of teachers in secondary schools, or for school superintendents.

ADMISSION

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

FRESHMAN STUDIES

The character of 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.

GRADUATION REQUIREMENTS

Every candidate for the Bachelor of Arts degree is required to complete the following work in college: (a) ten hours in Group 1, of which six are prescribed in English 1, 2, and the remainder may be elected from any of the courses included in the group; (b) ten hours in Group 2; (c) ten hours in Group 3; (d) ten hours in Group 4; (e) seven hours in Group 5 (for men students); (f) three hours for women students, and two and one-half for men students in Group 6.

Including these requirements 30 hours must be completed in the major subject, and 125 hours for the entire curriculum.

1. ENGLISH GROUP.—This comprises the courses offered in the Departments of English and Public Speaking, and the courses in Biblical Literature and Bibliography.

2. FOREIGN LANGUAGE GROUP.—This comprises the courses in language and literature offered in the Departments of French, German, Greek, Latin, and Spanish and Italian. No credit is given for less than one year's work in a beginning language.
3. Science and Mathematics Group.—This comprises the courses offered in mathematics and the biological and physical sciences, and includes the courses offered by the Departments of Biology, Chemistry, Mathematics, and Physics. These requirements may be satisfied by electing Biology 1, 2; Chemistry 1, 2, or 3, 4; Mathematics 1, 3, 6, or 1, 2, 3, or 17, 18, 19, 20, or Course 1 in mathematics, and Courses 15, 16 in astronomy; Physics 1, 2, 3, 4, or 5, 6, 3, 4. In case the requirements listed do not equal ten hours the remaining hours may be selected from any course in mathematics or science.

4. Social Science Group.—This comprises the courses offered in the Departments of Economics and Sociology, Education, History and Government, Philosophy, and Psychology, and the courses in history, archeology, fine arts, and music offered in other departments and not included in Group 1.

5. Military Science and Tactics (for men), two years' work giving seven semester hours' credit.

6. Physical Training, two years' work for men and three years' work for women without credit. Women students also take Bl 21, 22 in the freshman year for which two credits are given.

MAJOR SUBJECT

During the freshman year the work for which the student may register is largely prescribed.

Beginning with the sophomore year each student must select some one department in the college in which he is to pursue his major work. Any one of the following subjects may be chosen: Biology (including Zoology, Botany, Physiology, and Entomology), Chemistry, Economics and Sociology, Education, English, French, German, History, Latin, Mathematics and Astronomy, Philosophy, Physics, Psychology, Spanish and Italian.

The head of the department in which the student has chosen his major subject becomes his major instructor who is also the representative of the student before the faculty.

The major subject must include courses counting not less than thirty nor more than fifty hours. In the case of departments in which less work is offered than amounts to thirty hours, this must be made up from such other departments as the major instructor may prescribe. Major students in certain departments may also be required to select a minor subject in which a minimum of eighteen semester hours' work is to be done. The remainder of the courses are selected among the different departments of the university, subject to the approval of the major instructor.

Students transferring from the Colleges of Technology and Agriculture to the College of Arts and Sciences shall be required to do two full
years' work in the College of Arts and Sciences before receiving the bache-
lor's degree, with the exception that students from the College of Technol-
ogy may transfer after the junior year and be graduated in Arts after one
years' work as major students in the Departments of Physics, Chemistry,
or Mathematics; and students from the College of Agriculture may simi-
larly transfer and be graduated as majors in the Department of Biology.
Seniors shall be required to continue work in their major subject
through their senior year.

GENERAL LECTURE COURSE

A course of weekly lectures is given in the College of Arts and Sci-
ences each semester. Attendance is open to all, and credit is granted when
the course is completed.

PROGRAM FOR SECONDARY SCHOOL TEACHERS
LEADING TO A STATE CERTIFICATE

The College of Arts and Sciences of the University of Maine has
arranged a program for the professional training of secondary school
teachers, which will entitle those who complete it to a professional state
certificate for secondary school teachers. The program has been arranged
in conference with the State Commissioner of Education and has his
endorsement.

In addition to fulfilling the general requirements leading to the de-
gree of Bachelor of Arts, the student is expected to complete six hours
in Psychology 1, 2, twelve hours' work in Education in the junior and
senior years, thirty hours in a major subject, and from ten to twenty
hours in a minor subject. The prescribed work in Education includes
three hours in the History of Education, three hours in Methods of Teach-
ing, and six hours to be elected.

The selection of a major subject to which the student devotes 30 hours
and a minor subject to which he devotes from 15 to 20 hours is designed
to equip him for teaching two subjects related to the high school. Usual
combinations of high school subjects are English and history, Latin and
history, English and Latin, Latin and modern languages, mathematics and
physics, physics and chemistry. For the completion of this course a high
standard of scholarship is required. All the prescribed work must be of
C grade or above. Upon completing this course the student will receive
a Professional Secondary Certificate from the State Department of Public
Instruction which will designate the major and minor subjects which he
has pursued. A special certificate will also be issued by the university
which will give a detailed outline of the student's record.
BACHELOR OF ARTS CURRICULA

The work in the College of Arts and Sciences leads to the degree of Bachelor of Arts (B.A.). The curricula demand 125 hours and are regularly completed in four years, but a student of exceptional preparation and application may complete the requirements in three years by attending one or more summer sessions. Students fitting themselves for professional or technical schools are often encouraged to do this, but prospective teachers are recommended to spend four years in college.

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

In this college 95 out of the 125 required hours must be made with a grade of C or above.

COMBINED ARTS AND MEDICAL CURRICULA

The marked increase in the number of pre-medical students in attendance at the university has led to the establishment of definite programs of work for such students. The three-year course has been arranged in connection with an agreement with certain medical schools, which provides that a student who completes three years at this institution may enter the medical school, and receive his bachelor’s degree here at the completion of his first year at the medical school. A four-year course is arranged to meet the need of students who wish a broader academic training before beginning their distinctly medical studies. *Four years of academic work are strongly recommended to the prospective student.*

### Three-Year Course

**FIRST YEAR**

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<th>Hours</th>
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<td>Modern Language</td>
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<th>Spring Semester</th>
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SECOND YEAR

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<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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<td>Animal Histology</td>
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<tr>
<td>Qualitative Analysis</td>
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<td>Elementary Quantitative</td>
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<td>General Physics</td>
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<td>Analysis</td>
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<tr>
<td>Laboratory Physics</td>
<td>1</td>
<td>General Physics</td>
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<tr>
<td>Modern Language</td>
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<td>Laboratory Physics</td>
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<tr>
<td>Military</td>
<td>2</td>
<td>Modern Language</td>
<td>3</td>
</tr>
</tbody>
</table>

THIRD YEAR

| Advanced General Physics | 3     | Advanced General Physics | 3     |
| or                      |       | or                       |       |
| Physiology              | 4     | Animal Embryology         | 4     |
| English                 | 3     | English                  | 3     |
| Psychology              | 3     | Psychology               | 3     |
| Genetics                | 2     | Scientific German         | 2     |
| Organic Chemistry       | 5     | Organic Chemistry         | 5     |

Four-Year Course

Students taking the four-year course, take first three years as above. They are advised to take Advanced General Physics rather than Physiology and Animal Embryology in their third year.

FOURTH YEAR

| Physiology               | 4     | Animal Embryology         | 4     |
| or                      |       | or                       |       |
| Advanced General Physics | 3     | Advanced General Physics  | 3     |
| Sociology               | 3     | Social Pathology          | 3     |
| Elective                | 4 to 12| Elective                 | 4 to 12|

The following courses are advised for fourth year pre-medical students: Biology 8, 9, 81, 82; Chemistry 71, 72; Philosophy 3; Bacteriology 1, 3; Biochemistry 1, 2; Psychology 68.
PRE-DENTAL CURRICULUM

The standard dental schools now require for admission one year of college work, including biology, chemistry, and English. The following curriculum will enable pre-dental students to meet the new requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Biology</td>
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<tr>
<td>General Chemistry</td>
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</tr>
<tr>
<td>English 1</td>
<td>3</td>
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<tr>
<td>History 7</td>
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<td>Modern Language</td>
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<td>Military 1</td>
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<tr>
<td>Physical Training</td>
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<td>3</td>
</tr>
<tr>
<td>History 8</td>
<td>3</td>
</tr>
<tr>
<td>Modern Language</td>
<td>3</td>
</tr>
<tr>
<td>Military 2</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Training</td>
<td></td>
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</tbody>
</table>

Students planning to enter a dental school should be careful to elect a year's work in physics during their high school course.

COMBINED ARTS AND LEGAL CURRICULAS

Public Administration Course

The Department of History and Government provides preparation for two lines of work:

**OPTION 1, TEACHERS’ COURSE,** is designed to prepare students for the teaching of history and civics in our schools and advanced study in history and government. This work is subject to approval by the Head of the Department administering the course. **OPTION 2, PRE-LEGAL, HISTORY AND GOVERNMENT,** is designed to prepare students for public service and administration. Class A Law Schools are requiring more collegiate work as a prerequisite to admission to the study of the law. History and government are considered highly satisfactory as pre-legal equipment. If the student wishes to study law after completing three years of work, he will receive the degree of Bachelor of Arts upon successfully finishing his first year as a regular student in an accredited law school, providing all required subjects in the Arts curriculum have been completed.
Option 2, Pre-Legal Course

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
<td>English</td>
<td>3</td>
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<tr>
<td>Foreign Language</td>
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<td>Foreign Language</td>
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</tr>
<tr>
<td>Science or Mathematics</td>
<td>4 or 5</td>
<td>Science or Mathematics</td>
<td>4 or 5</td>
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<tr>
<td>U. S. History and Gov't.</td>
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<td>Military</td>
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<td>U. S. History and Gov't.</td>
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<td>Physical Training</td>
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If the student does not anticipate a legal course, but wishes to specialize in public service and administration, his work during the fourth year would include the subjects listed below. This work is based upon the needs of those who desire to enter our consular or diplomatic service, or who look forward to an office-holding career with our domestic service. It is highly important in the preparation of the student for the civil service examinations.
### Fourth Year

#### Fall Semester
- American Diplomacy or Constitutional Law ............... 3
- *Elective ........................................... 14

*Students are urged to include among the electives courses in American commerce and public finance given by the Department of Economics.*

#### Spring Semester
- International Law .................. 3
- Elective .......................... 14
Departments of Instruction

**Note:** A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit.

*Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.*

*Courses numbered 1-50 are for undergraduates only; courses numbered 50-100 are for graduates and undergraduates; courses numbered 100 and above are primarily for graduates.*

**ASTRONOMY**

**Professor Hart; Assistant Professor Lucas**

10. **Descriptive Astronomy.—**An elementary course. The text-book is supplemented by informal lectures, illustrated by lantern slides, drawings of celestial objects, and work in the observatory. Open to all students. *Three hours a week.*

Mr. Lucas 15, 16. **General Astronomy.—**Designed for students in mathematics and physics and others wishing a more complete treatment of the subject than Course 10. Recitations, lectures, solutions of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. *Three hours a week.* Given in 1923-1924 and alternate years.

11. **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 the establishment of meridian lines. The data for these problems are taken largely from the students’ own observations, and the course is intended to emphasize the necessity of careful work in the field, as well as accurate and well arranged computations. The instruments employed are the sextant, artificial horizon, portable chronometer, theodolite, vertical circle, astronomical transit, and zenith telescope. Open to students who have taken Mathematics 1, 3, and Astronomy 10. *Three hours a week* with additional observatory work.

Mr. Lucas 59, 60. **Practical Astronomy.—**The theory and use of the sextant, universal instrument, zenith telescope, transit, and equatorial. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10. *Three hours a week.* Not given in 1924-25.
BIBLICAL LITERATURE

Dean Stevens

1, 2. The English Bible.—A study of the English Bible as a masterpiece of literature, with the main object of familiarizing the student with the content of the Bible itself, and with the use made of it by the great masters of English literature. Unless under exceptional circumstances credit will not be given for a single semester. Two hours a week.

BIOLOGY

President Little, Professor Whiting, Associate Professor Eyster, Associate Professor Batchelder, Mr. Hull, Miss Woodbridge, Miss Jones, Mr. Harriman

General Biology.—Course 1, General Zoology, together with Course 2, General Botany, comprise a year’s work in General Biology. After completing Courses 1 and 2 a student may specialize on either the botanical or the zoological side of biology. The science requirement in the College of Arts and Sciences may be met by taking Courses 1, 2, and 7.

1. General Zoology.—The fundamental principles of animal life, illustrated by examples from the principal groups, and including some work on the anatomy and physiology of higher animals. Required of students taking the Curricula in Agriculture, Forestry; Pre-medical and Home Economics work. Class room, two hours a week; laboratory, four hours a week.

Mr. Little and Assistants

2. General Botany.—The fundamental principles of plant life, illustrated by examples from the various groups, with special attention to the seed plants. Required of students taking the Curricula in Agriculture, Forestry, and Pre-medical work. Prerequisite, Course 1. Class room, two hours a week; laboratory, four hours a week.

Mr. Eyster and Assistants

4. Invertebrate Zoology.—A survey of the most common types of the invertebrate phyla. Class room, one hour a week; laboratory, two hours a week.

Miss Woodbridge

6. Forest Entomology.—A course dealing with the various types of insects infesting forest trees, their depredations, and the methods of combatting them. Class room, two hours a week; laboratory, four hours a week.

Mr. Batchelder

7. Genetics.—A general treatment of the facts which form the basis of our knowledge of inheritance. Prerequisites, Courses 1 and 2. Two hours a week.

Mr. Eyster
8. **Entomology.**—A study of the structure, life-histories, and classification of insects, illustrated by common farm and forest species; the special insect pests of field, garden, orchard, and forest, and of domestic animals; methods of control. Some work on animal parasites other than insects is included. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *four hours a week*. Mr. Batchelder

9. **Plant Taxonomy and Histology.** 10. **Plant Physiology and Pathology.**—A combined course for one year for students in Agriculture, consisting of: practice in the identification of the higher plants; microscopic work on the cell, tissues, and organs of the higher plants; a study of the functions of plants, including nutrition, growth, and response; a study of the diseases of plants, especially those caused by fungi. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *six hours a week*. Mr. Eyster, Mr. Hull, Mr. Harriman

11. **Plant Diseases.**—A non-technical view of the subject designed for students who have had only General Biology. Class room, *two hours a week*; laboratory, *two hours a week*. Mr. Hull

12. **Elementary Physiology.**—The anatomy, physiology, and hygiene of higher animals, especially applied to man. Required of students taking the Curriculum in Home Economics. Class room, *two hours a week*; laboratory, *four hours a week*. Miss Woodbridge

16. **Organic Evolution.**—A discussion of the problem of the origin of species. Open to students who have had no previous work in biology. *Two hours a week*. Mr. Whiting and other members of the department

17. **Wood Identification.**—The identification of the various commercial woods by means of the unaided eye and the microscope. Open to students in Chemical Engineering, and to others by permission. *Three hours a week*. Mr. Hull

18. **Farm Botany.**—For two year agricultural students. Laboratory, *two hours a week*. Mr. Hull

21, 22. **Elementary Physiology and Hygiene.**—Required of all first year women except those in the Department of Home Economics. The principles of anatomy, physiology, and hygiene, applied especially to human well being. *One hour a week*. Miss Woodbridge

51. **Vertebrate Morphology.**—An interpretation of the fundamental principles of structure, origin, and history of vertebrate organ systems. Particular emphasis is placed upon the anatomy of the cat and the fowl in the laboratory studies. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *four hours a week*. Miss Woodbridge, Miss Jones, Mr. Batchelder

52. **Animal Embryology.**—A study of the fundamental principles of development, and the formation of organ systems and tissues in ver-
tebrates. Laboratory work on fish, frog, and chick. Prerequisite, Course 51. Class room, two hours a week; laboratory, four hours a week.

**Mr. Whiting**

53. **Advanced Animal Physiology.**—A study of the activities of cells and organ systems, with experimental work on the muscles, nerves, circulation, etc., in frog and man. Prerequisite, Course 51. Class room, two hours a week; laboratory, four hours a week.

**Mr. Whiting**

54. **Animal Histology.**—A study of the structure of protoplasm, cells, and tissues; practice in microscopical technique. Prerequisite, Course 51. Class room, two hours a week; laboratory, four hours a week.

**Mr. Whiting**

56. **Vertebrate Anatomy.**—A continuation of Course 51, with special reference to other vertebrate types, especially dog-fish and a reptile. Prerequisite, Course 51. Laboratory, four to eight hours a week.

**Mr. Batchelder, Miss Woodbridge**

57, 58. **Economic Entomology.**—A further study of economic insects and entomological problems, varying according to the needs of the students. Prerequisite, Course 8. Laboratory, four to eight hours a week.

**Mr. Batchelder**

61. **Plant Histology.**—The microscopic structure of the higher plants: the cell; the various tissues; the root, stem, leaf, and spore-bearing organs; the adaptations of plants to external conditions, considered from the standpoint of structure; killing, sectioning, staining, and mounting of plant tissues. Prerequisites, Courses 1 and 2. Class room, two hours a week; laboratory, four hours a week.

**Mr. Eyster**

62. **Plant Physiology.**—The plant is considered from the standpoint of its activities; absorption and transport of raw material; manufacture, transport, and storage of food; growth; movement in response to stimuli. Prerequisite, Course 61. Class room, two hours a week; laboratory, four hours a week.

**Mr. Eyster**

63. **Plant Taxonomy and Morphology.**—The identification of seed-plants by the use of a manual; the structure and relationships of vascular plants from the evolutionary standpoint. Prerequisite, Course 61. Class room, field, and laboratory work; time to be arranged, giving four credit hours.

**Mr. Eyster, Mr. Harriman**

64. **Plant Ecology.**—Two aspects of the subject are presented: (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. Prerequisite, Course 9 or 61. Class room, one hour a week; laboratory, four hours a week. Given in 1922 and alternate years.

**Mr. Hull**
66. **Forest Pathology.**—The diseases of trees, especially those caused by fungi; destruction of timber by fungi; methods of combating plant diseases. Prerequisite, Course 61. Class room, *two hours a week*; laboratory, †*two hours a week*. 

**Mr. Hull**

67, 68. **Forest Botany.**—A systematic study of the commercial trees of North America, with field study and identification of Maine representatives. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, †*four hours a week*. 

**Mr. Hull**

71, 72. **Biological Seminar.**—Preparation and discussion of papers dealing with recent advances in zoology and botany. Open to seniors and graduate students. *One hour a week*. 

**All the staff**

73, 74. **Thesis.**—Students in the College of Agriculture specializing in biology may prepare a thesis on some subject approved by the head of the department. *Time varies*. 

**Mr. Little, Mr. Whiting, Mr. Batchelder**

75, 76. **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. 

**Mr. Little, Mr. Whiting, Mr. Batchelder**

77, 78. **Advanced Botany.**—This course offers an opportunity for special work in botany along lines best suited to the future plans of the student. It may consist of laboratory work, field work, or reading, or a combination of all three. *The time varies* and the work may be continued a number of semesters. 

**Mr. Eyster, Mr. Hull**

80. **Advanced Genetics.**—Facilities are afforded for research work in plant and animal genetics. Advanced work may be arranged to suit the needs of the student. 

**Mr. Little, Mr. Whiting, Mr. Eyster**

82. **Experimental Biology.**—The effects of various stimuli in affecting modifications in the structures and functions of organisms may be investigated. 

**Mr. Little and members of the department**

83, 84. **Cytology.**—A course in cell structure, including methods of refined microscopic technique, judgment of good fixation, and chromosome details in plant and animal material. Open to seniors and graduate students. May be adapted to the students' needs. Prerequisite, Course 54. *Time varies*. 

**Mr. Whiting**

**CHEMISTRY**

*The courses in this department are described under the College of Technology.*

The science requirement in the College of Arts and Sciences may be met by completing courses Ch 1, 2, (or 3, 4), Ch 37, and Ch 42.
Students taking chemistry as a major subject in the College of Arts and Sciences must complete satisfactorily not less than thirty hours in chemistry, including Ch 1, 2, (or 3, 4), 31, 40, 51, and 71.

The following work in chemistry is now required for many medical colleges of the first class:

Three years' preparation in chemistry, including at least 240 hours of class room work and 500 hours of laboratory work. The former must include 60 hours in organic chemistry and a short course in physical chemistry, while the latter must include one year's work in quantitative analysis and 120 hours in organic chemistry.

Students should carefully study the chemistry requirements of the medical college they desire to enter before the beginning of the sophomore year.

**ECONOMICS AND SOCIOLOGY**

Professor Ashworth; Assistant Professor Howard; Assistant Professor Janzen; Mr. Chadbourne; Mr. Youngs

1. **Economics**

1. **Economic Organization.**—Medieval and present economic systems compared and contrasted. The Industrial Revolution and modern industrial society constitute the main body of the course. For sophomores only. *Three hours a week.*

1a. **Principles of Economics.**—An introductory course dealing with the general principles of modern economic activity. It is the purpose of this course to lay the foundation for further study in economics and to give the students who do not take other courses in the subject an understanding of the economic structure of society which every educated person is supposed to have. *Three hours a week.*

1b. **Economic Organization.**—Similar to Course 1. For technical and agricultural students this course is prerequisite for other courses in economics unless Course 1 or 1a be taken. *Two hours a week.*

2. **Principles of Economics.**—Similar to 1a. For sophomores only. *Three hours a week.*

2a. **Modern Economic Problems.**—A continuation of Course 1a. Banking, insurance, the tariff, taxation, wages and other economic problems. For juniors and seniors. *Three hours a week.*

2b. **Modern Economic Problems.**—A continuation of Course 1b. Similar to Course 2a. *Two hours a week.*

9. **Accounting.**—This course aims to give the student that general knowledge of the principles of accounting which every business person
should possess. Since this course does not presume any knowledge of bookkeeping a considerable part of the work is devoted to double entry bookkeeping. Three hours a week.  

**10. ACCOUNTING.**—A continuation of Course 9. Partnership and corporation accounting; balance and income sheets; depreciation, reserve, sinking fund, and investment accounting; advanced forms of final statements; realization and liquidation. Three hours a week.  

**11, 12. BUSINESS LAW.**—The legal principles of modern business; contracts, agency, corporations, partnerships, bailments, guaranty, and insurance. Juniors and seniors only. Three hours a week.  

**12a. BUSINESS LAW.**—Similar to Courses 11, 12, for engineering students. Three hours a week.  

**13. TRANSPORTATION.**—The historical development of transportation in the United States; railway organization and combination; financing and rate making: federal and state regulation; government ownership and operation; railway policies of leading European countries. Juniors and seniors only. Two hours a week.  

**51. CORPORATION FINANCE.**—The promotion, financing, incorporation, and capitalization of industrial corporations in the United States; the relations of stockholders and directors; stock speculation; receiverships and reorganizations. Juniors and seniors only. Three hours a week.  

**53. MONEY AND BANKING.**—The monetary and banking systems of the United States and other countries. Special emphasis on banking in its relation to business. Three hours a week.  

**54. ADVANCED BANKING.**—A close study of the Federal Reserve System, investment banking, foreign exchange and credit analysis. Three hours a week.  

**57. COST ACCOUNTING.**—Open to those who have passed Es 9 and 10 with a grade of C or better. Two hours a week.  

**71. PUBLIC FINANCE.**—Government activities and public revenue; tax systems with emphasis on existing systems and proposed reforms; government expenditures with emphasis on the budget system; the Maine system of taxation. Juniors and seniors only. Three hours a week.  

**72. LABOR PROBLEMS.**—The industrial revolution and the development of the modern conflict between capital and labor; history, aims, policies, and methods of trade unions; present day industrial problems; woman and child labor, immigration, wages, hours of labor, working-men’s insurance, and agencies of industrial peace. Juniors and seniors only. Three hours a week.
93, 94. Economic Thought.—A study of economic thought of the past and the present. Required of students majoring in economics. Two hours a week. Mr. Ashworth

101, 102. Economic Seminar.—Special work for those fitted for it. All the Staff

II. Sociology

31. General Sociology.—Human life and its organization; the evolution of institutions; the laws and forces which are fundamental in society; some psychological phases of the subject. Prerequisite to other courses in sociology. Not open to freshmen. Three hours a week. Miss Howard

32. Social Pathology.—Application of sociological principles in the study of poverty and relief; criminality and its prevention; care of dependents and defectives. Three hours a week. Miss Howard

81. The Family.—A historical consideration of the origin and development of the family; the legal and economic relations of its members; its significance as an institution; its pathological manifestations. Two hours a week. Miss Howard

82. Rural Sociology.—The social problems of country life: isolation of rural communities; movement of the people to the city; social activities; agencies for the improvement of rural life: the school, the church, and other institutions and organizations. Open to students of the College of Agriculture without the usual prerequisite. Two hours a week. Miss Howard

97. Immigration.—A history of immigration into the United States; the social, economic, and political aspects of immigration; agencies and methods of Americanizing the immigrant. Students who have had Economics 1 may by permission of the head of the department take this course without having had Course 31. Juniors and seniors only. Two hours a week. Miss Howard

98. Social Reform Programs.—An analysis of the socialist indictment of the present economic system; the history of socialism with special reference to recent events; the history of other movements aiming to transform the social order: communism, government ownership, the single tax, etc. Students who have had Economics 1 may by permission of the head of the department take this course without having had Course 31. Juniors and seniors only. Three hours a week. Miss Howard
EDUCATION

Professor Pollard; Associate Professor Chadbourne; Miss Twitchell

19. 20. Organizations.—A study of the origin, activities, and accomplishments of community groups. A special effort is made to interest students in group work. Two hours a week.

Miss Twitchell

25. Principles of Education.—The foundations of educational procedure, as based upon the modern sociological and psychological theories and research; formal and informal education. Open to sophomores. Three hours a week.

Mr. Pollard

35. Junior-Senior High School Administration.—A study of the development, place, and administration of the secondary school as organized under the six-six system. Open to juniors. Three hours a week.

Mr. Pollard

36. State School Systems.—A study of the principles of organization and of the typical agencies for the administrative control of American state educational systems. Also a critical study of the school laws in each state and of court decisions. Open to juniors. Three hours a week.

Mr. Pollard

38. School Hygiene.—School architecture and equipment; heating, lighting, and ventilation; mental health of teacher and pupils; communicable diseases and the relation of school authorities to health authorities. Open to juniors. Two hours a week.

Mr. Pollard

41. Intelligence and Educational Measurements.—A critical discussion of the validity of the tests; principles of design and methods of construction; the use of standard tests to the administrator, to the teacher, and to school surveyors. Open to students who have passed Psychology 1, 2. Three hours a week.

Mr. Pollard

44. Psychology of Elementary Education.—A study of the physical and mental development of the child up to the adolescent period dealing with the mental processes involved in learning. Open to students who have passed Psychology 1, 2. Three hours a week.

Mr. Pollard

47, 48. Methods of Teaching.—A general-methods course for prospective high school teachers. The course deals with the problems of the classroom teaching. Open to seniors who have ten or more hours credit in a subject which is taught in high school. Three hours a week.

Miss Chadbourne

51. History of Education in the United States.—Evolution of education, educational institutions, school systems, and practices of the American people. Open to juniors. Three hours a week.

Miss Chadbourne
52. History of Education.—Evolution of educational theory, institutions and practices of the Greek, Roman, and modern civilizations. Open to juniors. Three hours a week. Miss Chadbourne

62. Public School Administration and Supervision.—This course will consider: Educational surveys, financial problems, teaching staff, grouping of children, and other phases of administration. Open to advanced students who have had twelve or more hours work in education. Three hours a week. Mr. Pollard

71. Psychology of Secondary Education.—A study of the adolescent age and of the general psychological principles which determine the scope and character of secondary education. Open to students who have passed Psychology 1, 2 with a grade of C. Three hours a week. Mr. Halverson

72. Psychology of High School Subjects.—This course undertakes a psychological analysis of various high school courses as to their importance and organization; reasons for reorganization of some of these courses as discussed in recent educational writings. Open to students who have passed Education 71. Three hours a week. Mr. Pollard or Miss Chadbourne

97, 98. Current Problems in Education.—Each member of the class is assigned a special problem. Open to seniors of high grade. Two hours a week. Mr. Pollard

ENGLISH

Professor Ellis; Professor Draper; Associate Professor Turner; Assistant Professor Hotson; Assistant Professor Hopkins; Assistant Professor Zeitler; Mr. Flewelling; Mr. Richards; Mr. Mendum; Miss Davis; Mr. Miller

Eh 1, 2, Freshman Composition and Literature, is prescribed for all freshmen and is prerequisite for all other courses in English.

Students who, in the preliminary tests of Freshman Week, are shown to be clearly unprepared for the work in Eh 1 are required to take Eh x, a sub-freshman course meeting two hours weekly during one semester, for which no university credit is given. On satisfactory completion of the work in this course, the student is admitted to Eh 1 at the beginning of the spring semester.

Students who, in the Freshman Week tests, show themselves to be exceptionally qualified in English composition are admitted to the special course Eh 1a, 2a.

All students intending to do major or minor work in English are required to take Eh 3, 4 in the sophomore year unless they have taken Eh 1a, 2a as freshmen. They are also advised to elect elementary German in
the freshman year if they have not studied it in high school, and to elect
English History in the sophomore year. A major examination covering
their courses in English is held during the last semester of the senior year.

Requirements or recommendations for other groups of students are
the following:

For all students in the College of Arts and Sciences, Eh 3, 4, History
of English Literature, is recommended in the sophomore year.

For all students in the College of Technology, Eh 9 or 10, Modern
Literature, is required in the junior year if Pb 3, 4 is not elected in its
stead; and in the senior year Eh 5 or 6, Technical Composition.

For all students in Forestry, Eh 5, Technical Composition, is required
in the fall semester, and Eh 10, Modern Literature, in the spring semester,
of the sophomore year.

For all students in Home Economics, Eh 3, 4, History of English
Literature, is required in the sophomore year.

For all other students in the College of Agriculture, Eh 5 or 6, Tech­
nical Composition, is required in the junior year. Students in the Biology
Curriculum also take Eh 10, Modern Literature, in the spring semester of
the junior year.

x. Sub-Freshman Composition.—A drill course in the funda­
mentals of grammar, sentence structure, punctuation, and good usage in the
choice of words, with practice in writing, for students whose preparation
in English is found to be defective. Two hours a week, fall or spring se­
mester. No credit.

Miss Hopkins, Mr. Richards

1, 2. Freshman Composition and Literature.—Two hours a week
are devoted to the fundamental principles of good usage in writing and to
the expository, descriptive, and narrative forms of composition. Weekly
themes and frequent conferences are required. The remaining time is
given to the study of several books from different periods of English lit­
erature. Prescribed for all freshmen. Three hours a week.

Mr. Turner (Chairman). Miss Hopkins, Mr. Zeitler,
Mr. Flewelling, Mr. Richards, Mr. Mendum, Miss
Davis, Mr. Miller

1a, 2a. Freshman Composition and Literature.—One recitation a
week is taken up with rhetoric and composition; the other two recitations
are devoted to a historical survey of English Literature, covering as much
as possible of the subject matter of Eh 3, 4. Students who complete the
course satisfactorily are eligible for advanced courses in English. Three
hours a week.

Mr. Turner

3, 4. History of English Literature.—A survey of the literature
from its beginning to the end of the nineteenth century. Lectures and
recitations based upon the direct study of selections from the chief Eng­
lish poetry and prose. Illustrated lectures on the chief periods. Written
reports on assigned topics. Prerequisite for all advanced courses in Eng­
lish literature unless Eh 1a, 2a has been taken in the freshman year. *Three hours a week.*

Mr. Draper (Chairman), Mr. Turner, Miss Hopkins, Mr. Richards, Mr. Mendum

5 (6). **Technical Composition.**—Business correspondence, reports, and summaries of investigation, and preparation of manuscript for theses and technical journals. Required of students in the Colleges of Agriculture and Technology as above indicated. *Two hours a week,* fall or spring semester. Not open to students in Arts and Sciences.

Mr. Hotson (Chairman), Mr. Flewelling, Mr. Miller

7a, 8a. **Advanced Composition.**—A course in narrative writing, stressing the short-story form. *Two hours a week.*  

7b, 8b. **Advanced Composition.**—A course in expository writing, stressing the familiar essay. *Two hours a week.*  

9 (10). **Modern Literature.**—A study of representative short-stories, novels, essays, poetry, and plays of the last hundred years, with the design of cultivating the appreciation and enjoyment of good literature. Reports and criticisms of the works read are written. Not open to students in Arts and Sciences or in Home Economics. *Two hours a week,* fall or spring semester.  

Mr. Hotson

13. **Nineteenth Century Literature.**—Recitations and lectures based upon the study of selections from the chief English prose and poetry of the nineteenth century. Written reports on assigned topics. *Two hours a week.*  

Mr. Flewelling

14. **English Literature from Shakespeare to Burns.**—A similar study of representative selections from the prose, poetry, and drama of the seventeenth and eighteenth centuries. *Two hours a week.*  

Mr. Flewelling

15 (16). **Business Correspondence.**—A course primarily for major students in Economics. The main object of the course is to acquaint students with the use of correct and forceful English for business purposes. *Two hours a week,* fall or spring semester.  

Miss Davis

18. **English Literature for Freshmen.**—An elective course for freshmen who have completed Eh 1 in a satisfactory manner. Rapid reading and study of worthy examples of English Literature. *Three hours a week.*  

Mr. Zeitler

21. **Teaching of Composition.**—Discussion of topics connected with the teaching of written and oral composition in the secondary school. Practice in grammar, composition, and correction of themes. *Two hours a week.* Not given in 1924-25.

22. **Teaching of Literature.**—Study of selected classics from the high-school curriculum, from the point of view of the teacher. Practice teaching and class discussions. *Two hours a week.*  

Mr. Ellis
23, 24. News Gathering and Reporting.—Training of reporters by theory and practice. Practical exercises in class, and laboratory work on the Campus, the University newspaper. Two hours a week.

Mr. Johnson (Student Assistant)

25. History of Journalism.—Origin and growth of journalism in the United States, with some consideration of the history and present state of journalism in other countries. Notable editors and publishers of the past and present are studied, together with the expansion and influence of the press. Three hours a week. Not given in 1924-25.


37, 38. Victorian Poets.—In the fall semester Tennyson and Browning are studied; in the spring, Arnold and the later Victorians, with some consideration of the more recent British poets. A study of selected poems with extensive assigned reading. Two hours a week. Not given in 1924-1925.

43, 44. American Literature.—A survey course, based upon the study of the chief works of American poets and prose writers. Lectures, recitations, assigned reading, and written reports. Three hours a week.

Miss Hopkins

45. Contemporary American Poetry.—A study of present-day tendencies of poetry in America and its relation to earlier periods, with special attention to the more prominent living poets. Two hours a week.

Mr. Ellis

46. Contemporary English Poetry.—A parallel course with Eh 45. Two hours a week.

Mr. Ellis

47, 48. English Prose Fiction.—Primarily a reading course, designed to familiarize the student with the greater masterpieces in the English novel and short-story of the last two centuries. Two hours a week. Not given in 1924-1925.

For the courses which follow, Eh 3, 4, History of English Literature, (or Eh 1a, 2a) is prerequisite.

51. Anglo-Saxon.—A study of Anglo-Saxon grammar and reading of easy prose and poetry. Lectures on the literature of the Anglo-Saxon period. This course is recommended for those intending to teach English or to proceed to graduate study in the subject. Three hours a week.

Mr. Zeitler

*A year's work must be completed to obtain credit in the College of Arts and Sciences.
52. Beowulf.—This course supplements Eh 51 with a study of the earliest English epic. Attention is given to metrical, literary, and linguistic qualities and to the historical background. *Three hours a week.*

Mr. Zeitler

53, 54. Chaucer.—A study of the *Canterbury Tales* and the chief minor poems, stressing the reading of Chaucer as poetry, his literary range and qualities, and the picture of his time given in his works. *Three hours a week.* Not given in 1924-25.

55, 56. Nineteenth Century Poetry.—In the first half the poetry of the English Romantic Movement is chiefly considered; in the second, the poetry of the Victorian Age and the later period. *Three hours a week.* Not given in 1924-25.

57, 58. Shakespeare.—A brief consideration of the English drama prior to Shakespeare, followed by a careful study of several of his most important plays and the reading of others. Some attention is given to Elizabethan stage conditions and the dramatic work of his contemporaries. *Three hours a week.*

Mr. Draper

59. English Literature from 1790 to 1830.—A study of the literature of the romantic and revolutionary movements, the early realistic reaction, the rise of periodical literature, and the social and political influences which affected the writers of the first quarter of the nineteenth century. *Three hours a week.*

Mr. Turner

60. English Literature from 1830 to 1870.—The literary and scientific movements of the era, the Victorian novelists, tractarianism, pre-Raphaelitism, the greater poets, imperialism, and the later realists and romancers. *Three hours a week.*

Mr. Turner

61, 62. History of the English Drama.—The development of the drama in England from the miracle and mystery plays through the Elizabethan period, and the later tendencies in the Restoration drama, the eighteenth century, the nineteenth century closet drama, and the revival of the acting play in England, Ireland, and America. *Three hours a week.* Not given in 1924-25.

63. Sixteenth Century Literature.—Non-dramatic poetry and prose of the period, with particular attention to the poetry of Spenser. *Two hours a week.* Not given in 1924-25.

64. Seventeenth Century Literature.—This course follows Eh 63 and deals with the non-dramatic poetry and prose of the century, with particular attention to Milton. *Two hours a week.* Not given in 1924-25.

65, 66. Eighteenth Century Literature.—A study of the evolution of Neo-classicism as it merges into the early Romantic Movement, with special attention to the poetry of the period and supplementary lectures on the evolution toward romanticism of fiction and drama, and analogous developments in music, painting, architecture, and gardening. *Three hours a week.*

Mr. Draper
67. **Outline History of the English Language.**—The descent and relationships of the English language; the successive periods of foreign influence; the sources and character of the English dialects. Recommended for prospective teachers of English. *Two hours a week.*

Mr. Zeitler

69, 70. **The Eighteenth and Nineteenth Century Essay.**—Addison, Steele, Swift, Johnson, Goldsmith, and Burke; Lamb, De Quincey, Macaulay, Carlyle, Ruskin, Arnold, and Stevenson. *Two hours a week.* Not given in 1924-25.

71, 72. **Advanced American Literature.**—A somewhat intensive study of some special field or period of American literature. For the fall semester, 1924-25, the topic is The Literature of the Period 1782-1820. For the spring semester, The Drama in America to 1900. *Three hours a week.*

Mr. Ellis

73 (74). **Forms and Types of English Poetry.**—A study of the different metrical forms in English verse and of the ballad, lyric, sonnet, and other common types. Verse composition. *Two hours a week.* Not given in 1924-25.

75. **Restoration Literature.**—The temper of the Restoration period as reflected in the literature; the Restoration drama; the significance of Dryden’s work; political satire; the standards of classicism in poetry; the rise of modern prose. *Three hours a week.* Not given in 1924-25.

101, 102. **Graduate Seminar.**—The subject is determined by the needs of the students in attendance.

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**FRENCH**

Professor Segall; Associate Professor Kueny; Miss Buzzell; Mr. Whitcomb

1, 2. **Elementary French.**—Grammar, pronunciation, composition, conversation, and translation. *Five hours a week.*

Mr. Hamlet (Student Assistant)

3, 4. **Intermediate French.**—Grammar, pronunciation, composition, conversation, translation. Open to students who have taken Courses 1 and 2, or an equivalent. *Three hours a week.*

Mr. Kueny, Mr. Whitcomb

5, 6. **Advanced French.**—Pronunciation, composition, conversation, rapid reading of modern authors. Open to students who have taken Courses 3 and 4, or an equivalent. *Three hours a week.*

Mr. Segall, Mr. Whitcomb
7, 8. **Elementary Conversation and Composition.**—Open to students who have taken Courses 1 and 2, or an equivalent. *Two hours a week.*

Mr. Kueny, Mr. Whitcomb

9, 10. **Advanced Conversation and Composition.**—Open to students who have taken Courses 7 and 8, or an equivalent. *Two hours a week.*

Mr. Kueny, Mr. Whitcomb

51, 52. **Survey of French Literature.**—A brief survey of the chief events in French literary history with some attention to the political and economic background. The work is largely based on a study of representative works of the chief authors of the XVI, XVII, XVIII, and XIX centuries. Open to students who have taken Courses 5 and 6. *Two hours a week.*

Mr. Whitcomb


Mr. Segall


Mr. Segall

55. **The Drama in the Nineteenth Century.**—The Romantic Period: Dumas père, Victor Hugo, Alfred de Vigny, Alfred de Musset, Scribe. Lectures, recitations, themes. Open to students who have taken Courses 5 and 6. *Two hours a week.*

Mr. Segall


Mr. Segall

57, 58. **Advanced French Grammar.**—A teacher’s course. Lectures, recitations, practical exercises. Open to students who have taken Courses 9 and 10, or an equivalent. *Three hours a week.* Given in 1924-25 and alternate years.

Mr. Kueny

59, 60. **How to Write French.**—An advanced course in French composition. Open to students who have taken Courses 9 and 10, or an equivalent. *Three hours a week.* Given in 1925-26 and alternate years.

Mr. Kueny

61, 62. **History, Essay, and Criticism.**—A study of the foremost French historians, essayists, critics, and their works, particularly those of the nineteenth century. Open to students who have taken Courses 5 and 6. *Two hours a week.* Not given in 1924-25.
101, 102. The Middle Ages.—The historic development of the French language and literature from the origins to the Renaissance. The national epic; the epic of antiquity; romances of love and courtesy. Lyric poetry. Renard the Fox. Fabliaux. The Romance of the Rose. The chroniclers: Villehardouin, Joinville, Froissart, Commines. Latest medieval poets: Charles d'Orléans, Villon. The theatre. Lectures, recitations, themes. Open to students who have taken two courses in French literature. Two hours a week. Given in 1925-26. Mr. Kueny


105, 106. The Seventeenth Century.—The Hotel de Rambouillet and the Précieux school. Balzac. Descartes. The Jansenists, Port-Royal, Pascal. The Drama: Corneille, Molière, Racine. Madame de Sévigné, Madame de Lafayette, La Rochefoucauld. The Burlesque: Scarron. La Fontaine, Boileau. The Churchmen: Bossuet, Bourdaloue, Massillon, Fénelon. La Bruyère. Lectures, recitations, themes. Open to students who have taken two courses in French literature. Two hours a week. Mr. Segall

109, 110. The Eighteenth Century.—Memoirs and history; poetry; the theatre; the novel. Beyle, Fontenelle, Montesquieu, Vauvenargues, Voltaire, Diderot and the Encyclopedia, philosophers, economists, critics. Buffon, Rousseau, Bernardin de Saint-Pierre, Beaumarchais, André Chénier. The Revolution. Lectures, recitations, themes. Open to students who have taken two courses in French literature. Two hours a week. Mr. Segall

112. The Poetry of the Nineteenth Century.—The historic development of the poetry of the century; a close and detailed literary study of representative poems. Béranger, Lamartine, Victor Hugo, Alfred de Vigny, Alfred de Musset, Gautier, Baudelaire, Leconte de Lisle, Sully-Prudhomme, Hérédia, Coppée, Richepin, Verlaine, Henri de Régnier, Moréas, Rodenbach, Verhaeren. Lectures, recitations, themes. Open to students who have taken two courses in French literature. Two hours a week. Given in 1924-25. Mr. Kueny
GENERAL LECTURE COURSE

The College of Arts and Sciences of the University of Maine has arranged a series of weekly lectures of a popular nature, along the lines of work connected with the departments in that college.

Courses of lectures have been scheduled as follows:
1924-25 German and Romance Languages; Biology.
1925-26 History and Economics; Physics and Mathematics.
1926-27 Greek and Latin; Chemistry.
1927-28 English, Education and Philosophy.

These courses will be repeated in the same order.

Registration for this course is open to all students in the university and proper credit is given for its completion. The lectures are open to the public and are without charge.

The course is designated Gc 1, 2.

GEOLOGY

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

GERMAN

Professor Drummond; Assistant Professor French

1, 2. **First Year German.**—A course for beginners. Grammar, composition, translation, conversation. *Five hours a week.*

Mr. Drummond, Mr. French, Mrs. Pierce (Student Assistant)

3, 4. **Second Year German.**—For students who have had Courses 1, 2 or equivalent. Translation, composition, grammar review. *Three hours a week.*

Mr. Drummond

5, 6. **Third Year German.**—For students who have had Courses 3, 4 or equivalent. A course in German literature including the reading of texts of the eighteenth and nineteenth centuries and lectures. *Three hours a week.*

Mr. Drummond

7, 8. **Fourth Year German.**—For students who have had Courses 5, 6 or equivalent. Critical reading of standard works, principally from the nineteenth century literature; lectures; essays. *Three hours a week.*

Mr. Drummond

9. **Teachers’ Course.**—For those who intend to teach German. Discussion of methods of teaching, the value of different texts, preparation of the lesson, class-room work, pronunciation, word-derivation, historical grammar. *Two hours a week.*

Mr. French
13, 14. **Elementary German Composition and Conversation.**—For students who have had Courses 1, 2 or equivalent. *Two hours a week.*

Mr. French

15, 16. **Scientific German.**—Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.*

Mr. French

17, 18. **Advanced German Conversation and Composition.**—For students who have had Courses 13, 14. *Two hours a week.*

Mr. Drummond

51, 52. **Studies in Eighteenth Century Literature.**—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Goethe, Schiller. Critical study of different works, lectures, discussions. *Two hours a week.* Given in 1923-24 and alternate years. Mr. Drummond

53, 54. **Faust.**—The history and development of the Faust legend, the influence of the Faust idea, critical study of Goethe’s Faust. *Two hours a week.* Given in 1922-23 and alternate years. Mr. Drummond

55, 56. **Studies in Nineteenth Century Literature.**—The various literary movements of the nineteenth century, lectures, discussions, outside reading. *Two hours a week.*

Mr. French

57, 58. **Seminar.**—A study of some special topic in German literature. *Two hours a week.*

Mr. Drummond, Mr. French

60. **History of German Literature.**—An outline sketch of the history of German literature in German. Recitations, outside reading, lectures. *Two hours a week.*

Mr. French

101, 102. **Gothic, Introduction to the Study of Germanic Philology.**—Historical grammar, word-derivation, translation. *Two hours a week.* Given in 1923-24 and alternate years. Mr. Drummond

103, 104. **Old High German.**—A study of the grammar and translation from the different dialects of this period; word development in relation to present-day language; discussion of sound changes. *Two hours a week.* Given in 1922-23 and alternate years. Mr. Drummond

105, 106. **Middle High German.**—A study of the grammar and its relation to modern German grammar; reading of such texts as Nibelungenlied, Walther von der Vogelweide, Hartmann von Aue; lectures on the literature of this period. *Two hours a week.*

Mr. Drummond
Greek Language and Literature  

Greek

The Department of Greek is arranged with the idea of presenting several phases of ancient civilization. Such courses are offered as will prove serviceable to the student of average interests, who not having studied the ancient languages in the fitting school, may desire to include in his college curriculum some work bearing on the permanent contributions of early peoples to the civilization of ancient and modern times.

1, 2. Ancient Civilization.—This course has little in common with the ancient history of the preparatory schools. It is rather the achievements of the Greeks and Romans in laying the foundations of so much that is the basis of modern life and thought to which attention is directed. Some examination is made of Egyptian and Eastern civilization as the historic background on which developed classical life and action. An important part of the course lies in the emphasis that is given to the Greek thought and Roman rule in the midst of which Christianity sprang up.

Instruction is entirely by lectures and each student is required to keep a note-book, and also have as parallel reading Breasted’s Ancient Times. Three hours a week.


4. Early Religions.—A study of the religious conceptions of the ancient Egyptians, Persians, Greeks, and Romans and their relation to art and literature; lectures and assigned reading; investigation of special topics by members of the class. Two hours a week.

5. Beginning Greek.—Grammar and elementary work followed in second part of the semester by easy reading in the New Testament Greek. The transition is gradually made to the more complex Greek of the Classical Period. Four hours a week.

6. Continuation of Course 5.—A text book in Homeric Greek will be used and at least one book of the Iliad will be mastered. Four hours a week.


51. Greek Literature.—The history of poetry,—epic, lyric, and dramatic. Types and standards of verse composition established by the
ancient Greeks, and some consideration of the Greek influence upon later poetry, particularly the epic. Lectures and readings from English translations. Each student will be expected to make a special study of some one author, and in the treatment of Aeschylus, Sophocles, and Euripides, at least one play of each will be read in class. This course, as well as the next on prose literature, is intended to be foundational for students majoring in classics or in modern languages. *Three hours a week.*

52. **Greek Literature.**—The history of prose literature in ancient Greece. History, oratory, and philosophy will be traced in succession. Students will be expected to do parallel reading, specially in Thucydides, Demosthenes, and Plato. This course may be taken only in connection with Course 51, and like the latter is intended to place the student in touch with the forces of lasting value in Greek letters. *Three hours a week.*

### Art History

9. **Renaissance.**—This period is studied particularly in Italian paintings of the fifteenth and sixteenth centuries. Lectures; study of pictures; special subjects for individual investigation. *Two hours a week.* Given in 1925-26 and alternate years.

11, 12. **General Art History.**—From the Greek age down to the time of the French Revolution. Main emphasis will be laid on the architecture and sculpture of the ancients and the painting of the Renaissance and later times. *Two hours a week.*

13. **Art Ideals in America.**—A course of lectures on the relation of Fine Arts to national culture and spirit with the idea of presenting a background for the appreciation of the architecture, sculpture, and painting of America. The value of the Arts as agencies for developing and fixing public opinion and ideals has met with no general recognition in the United States till very recent times. This course is designed to throw light on cultural America and to stimulate a broader interest in art appreciation particularly as affecting the public mind and reflecting national spirit. *The Significance of the Fine Arts,* published in 1923 by the Committee on Education of the American Institute of Architects, will be required as a book for outside study, and each member of the class will be expected to develop a special topic relating to the history of American Arts. Open to all students except freshmen. *Two hours a week.*
HISTORY AND GOVERNMENT

Professor Colvin; Associate Professor Toelle; Associate Professor Whitmore, (Supervisor of Freshman Work); Mr. Imlah; Mr. Currier

History

For ancient Civilization and History of the Near East see Courses 1, 2 and 55, 56 in the Department of Greek. Those courses are given credit in this department.

1. Medieval History.—A general course covering the period from the third century to 1500. Not open to freshmen. Three hours a week. Miss Colvin, Mr. Whitmore

2. Modern History.—Continuation of Course 1 to 1815, closing with a rapid sketch from 1815. Not open to freshmen. Three hours a week. Miss Colvin, Mr. Whitmore

3. History of England.—From early times to the beginning of the Stuart period. Not open to freshmen. Two hours a week. Mr. Imlah

4. History of England.—Continuation of Course 3. From the beginning of the Stuart period to the present. Not open to freshmen. Two hours a week. Mr. Imlah

5. Recent History.—This course is a general view from 1870. It is open to students from the Colleges of Technology and Agriculture only. Two hours a week. Mr. Imlah

6. European History Since 1815.—This course is open only to students who have had Courses 1 and 2 or 3 and 4. Two hours a week. Mr. Imlah

7, 8. United States History and Government.—This course begins with the close of the Revolution. It is open to freshmen only, and credit is not given except for a full year’s work. Three hours a week. Mr. Whitmore, Mr. Currier

9. History of the United States.—The period from 1783 to 1865. This course is for upper class students who have not had Courses 7 and 8. Two hours a week. Mr. Whitmore

10. History of the United States.—A continuation of Course 9 from 1865 to the present time. Two hours a week. Mr. Whitmore

51. The Renaissance.—This course takes up the Renaissance as an intellectual and social movement in Italy, and its expansion into France, England, and Germany. Three hours a week. Miss Colvin

52. The Reformation.—This course follows Course 51 and the two are always given the same year. Three hours a week. Miss Colvin
53. Modern Continental Europe.—Study of a selected period since the Peace of Utrecht. *Three hours a week.*

54. Modern England.—Study of a selected period since the accession of the House of Hanover. *Three hours a week.*

55, 56. United States History.—Studies of special periods, or of special phases of the development of American civilization. *Three hours a week.*

57, 58. Historical Criticism.—*One hour a week.*

59. Social and Industrial History of England.—This course begins with the medieval manor and comes down to the present time. *Two hours a week.*

60. Social and Industrial History of the United States.—This course begins with early colonial history. *Three hours a week.*

Courses 59 and 60 are planned in connection with courses in Economics and Sociology.

**Government**

31. American Government.—The principles and interpretation of the federal government; emphasis on present day political problems which relate to fundamental principles of the American government. Prerequisite to other courses in political science. Not open to freshmen. *Three hours a week.*

32. State and Local Governments.—Powers, rights, and obligations of the states in the Federal union; formation and admission of state; development of the state constitutions; organization of state and local governments; brief survey of the newer problems connected with state governments. *Three hours a week.*

71. Foreign Governments.—The political institutions of England; party development and current problems national and local; the government of the overseas dominions; a comparative study. *Two hours a week,* during the first semester.

72. Foreign Governments.—A comparative study of the political institutions of France, Italy, Germany, Switzerland, and the Argentine; party development and current problems national and local. *Two hours a week.*

87. American Diplomacy.—The Department of State; diplomatic service; the treaty making power; the foreign policy of the United States; diplomatic controversies with foreign powers; the United States as a world power. Given in 1925-26 and in alternate years. Juniors and seniors only. *Three hours a week.*
88. **International Law.**—Development, nature, source, and present status; development of internationalism. Juniors and seniors only. *Three hours a week.*

89. **Constitutional Law.**—A course dealing with the leading principles of American Constitutional Law. Hall’s Cases on Constitutional Law and an appropriate text book will be used. Given in 1924-25 and in alternate years. *Three hours a week.*

**LATIN**

**Professor Chase**

1. **Livy.**—Selections from Livy, History of Rome. *Three hours a week.*

2. **Cicero and Horace.**—Cicero, De Senectute; Horace, Odes and Epodes. *Three hours a week.*

3. **Latin Composition, with Review of Latin Syntax.**—*One hour a week.*

4. **Latin Composition.**—A continuation of Course 3. *One hour a week.*

5. **Tacitus.**—Reading and discussion of the Agricola and Germania. *Three hours a week.*

6. **Terence and Plautus.**—The Phormio of Terence; the Captivi and Trinummus of Plautus; study of early Latin and the development of Roman comedy. *Three hours a week.*

8. **Teachers’ Course.**—Discussions of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Cæsar, Cicero, and Vergil. *Two hours a week.*

9. **Cicero.**—Speeches against Catiline, for the Manilian Law, and Archias. Open to students who have completed two years’ study of Latin in high school. *Five hours a week.*

10. **Vergil.**—Aeneid, books i-vi. Open to students who have had less than four years of high school training. *Five hours a week.*

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

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

23. **The Younger Pliny.**—Reading of selected letters of Pliny; the Roman Empire. *Three hours a week.*

24. **Horace and Juvenal.**—Reading of selections from the great satirists; study of Roman satire and social life. *Three hours a week.*

Given in alternate years.
56. The Roman Elegaic Poets.—Selections from Catullus, Tibullus, Propertius, and Ovid; study of elegaic poetry. *Three hours a week.* Given in alternate years.

57, 58. Roman Philosophy.—Reading from Cicero's philosophical writings and from Lucretius; discussion of the leading schools of ancient philosophy. *Three hours a week.* Given in alternate years.

59, 60. Roman Rhetoric and Oratory.—Quintilian (selections from the Institutio Oratoria); Tacitus (Dialogus de Oratoribus); Cicero (selections from the Brutus, De Oratore, and Orator). Open to students who have taken Courses 1-4. *Three hours a week.* Given in alternate years.

103, 104. The Latin Language.—A discussion of the fundamental principles of linguistic growth and change and of the relationship of Latin to other languages; Latin phonetics; the development of inflectional forms in Latin. Lectures and recitations. *One hour a week.* Given in alternate years.

107. 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.

**MATHEMATICS**

Professor Hart; Professor Willard; Associate Professor Bryan; Assistant Professor Lucas; Mr. Beale; Mr. Jenness; Mr. Engstrom; Mr. Hadlock

Students electing mathematics as a major subject are expected to take Courses 1, 2, 3, 5, 6, 7, 8 and to elect other courses to a total of forty semester hours. Courses in Astronomy, 10, 11, 15, and 16, and Mechanics 51 and 52 may be taken as mathematics electives. Students majoring in mathematics and intending to teach are also advised to take several courses in physics.

1. Trigonometry.—The trigonometric functions; radian measure; functions of two or more angles; logarithms; solution of right and oblique triangles; trigonometric equations; inverse functions. *Three hours a week.*
   
   Mr. Hart, Mr. Willard, Mr. Jenness, Mr. Engstrom, Mr. Hadlock

2. Solid Geometry.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. *Three hours a week.* Open to all freshmen who did not offer solid geometry for admission.
   
   Mr. Engstrom, Mr. Hadlock

3. College Algebra.—A brief review of radicals, the theory of exponents, quadratic equations, and the binomial theorem; determinants; theory of equations. *Two hours a week.*

   Mr. Hart, Mr. Willard, Mr. Jenness, Mr. Engstrom, Mr. Hadlock
4. **Spherical Trigonometry.**—The elements of this subject with problems and applications to spherical astronomy. *Two hours a week.*

   **Mr. Beale**

5. **Advanced Algebra.**—Topics in college algebra not covered in Course 3. Open to students who have taken Courses 1, 2, and 3, and to freshmen with especially good high school preparation. *Three hours a week.*

   **Mr. Hart**

6. **Analytic Geometry.**—The point, line, circle, and conic sections; higher plane curves; elements of solid analytic geometry. Open to students who have had Courses 1 and 3 and the equivalent of Course 2. *Five hours a week.*

   **Mr. Hart, Mr. Willard, Mr. Jenness, Mr. Engstrom, Mr. Hadlock**

7. **Calculus.**—Differentiation of the elementary forms of algebraic and transcendental functions; successive differentiation; differentials; rates; maxima and minima. Open to students who have taken Courses 1, 2, 3, and 6. *Five hours a week.*

   **Mr. Willard, Mr. Bryan, Mr. Lucas, Mr. Beale, Mr. Hadlock**

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

   **Mr. Willard, Mr. Bryan, Mr. Lucas, Mr. Beale, Mr. Hadlock**

   (Courses 6, 7, 8 are being given during the college years 1923-24, 1924-25 as a combined course in analytical geometry and calculus.)

9. **Mathematics for Agricultural Students.**—*Three hours a week.*

   **Mr. Bryan, Mr. Beale**

10. **A Continuation of Course 11.**—*Two hours a week.*

    **Mr. Bryan, Mr. Beale**

11. **Differential and Integral Calculus.**—A course designed for students in chemistry and for those in the College of Arts and Sciences who desire only a brief course in this subject. *Three hours a week.*

    **Mr. Beale**

12. **Differential and Integral Calculus.**—A continuation of Course 13. *Two hours a week.*

    **Mr. Beale**

13. **Mathematical Theory of Investment.**—A study of the progressions and the binomial theorem, logarithms and the graphical representation of functions with a view to their application to the theory of investment. Also a study of interest, both simple and compound, present value, discount, and annuities. Thruout the course, numerous problems are solved to illustrate the theory and to fix the principles involved. *Two hours a week.* Not given in 1924-25.

14. **Mathematical Theory of Investment.**—A continuation of Course 17. A study of amortization, the valuation of bonds, sinking funds
and depreciation, building and loan associations; also the theory of probability and its application to life annuities and certain problems connected with life insurance. *Two hours a week.* Not given in 1924-25.

19, 20. **THE THEORY OF STATISTICS.**—A study of the theory of statistics and the application of statistical methods. *Two hours a week.* Given in 1924-25 and alternate years. **Mr. Bryan**

21. **SOLID GEOMETRY.**—The equivalent of Course 2 but given in the fall semester. **Mr. Engstrom**

51. **ADVANCED ANALYTIC GEOMETRY.**—A course for students who have completed Courses 5, 6, 7, and 8. *Three hours a week.* Given in 1924-25 and alternate years. **Mr. Lucas**

52. **SOLID ANALYTIC GEOMETRY.**—*Three hours a week.* Given in 1924-25 and alternate years. **Mr. Lucas**

53. **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 1925-26 and alternate years.

54. **ADVANCED INTEGRAL CALCULUS.**—A continuation of Course 53. *Three hours a week.* Given in 1925-26 and alternate years.

56. **DIFFERENTIAL EQUATIONS.**—Open to students who have taken Courses 7, 8. *Two hours a week.* **Mr. Willard**

61. **HISTORY OF MATHEMATICS.**—Lectures and recitations. This course is not only essential to students majoring in mathematics but also prospective teachers of mathematics need this course as a necessary part of their preparation. *Two hours a week.* Given in 1924-25 and alternate years. **Mr. Bryan**

63, 64. **TEACHERS’ COURSE IN MATHEMATICS.**—A critical study of the methods of teaching high-school mathematics, an investigation of fundamental principles, and directions for the selection and arrangement of the subject-matter of secondary-school mathematics in harmony with modern mathematics. Because of the great changes that have come into the field of secondary-school mathematics this course will be of value especially to superintendents, principals, and teachers of mathematics. Those interested in the teaching of college mathematics will be assigned investigations in that field. *Three hours a week.* **Mr. Bryan**

65. **THEORY OF EQUATIONS.**—*Three hours a week.* Not given in 1924-25.


68. **THEORY OF NUMBERS.**—A study of the elements of the theory of algebraic numbers. *Three hours a week.* Given in 1924-25 and alternate years. **Mr. Bryan**
71, 72. **Modern Higher Algebra.**—A study of the nature of a proof in algebra, training in rigorous demonstration, a study of matrices, invariants and co-variants, and quadratic forms. The course will aid those taking it in extending their knowledge of the language of mathematics as used in the theory of relativity and like subjects. *Three hours a week.* Given in 1925-26 and alternate years.

101. **Theory of Functions of a Complex Variable.**—An elementary course in the treatment of analytic functions. The course includes a consideration of infinite series, both single and double, infinite products, conformal representation, and a brief application of the theory to Fourier's series, the gamma, beta, and Bessel functions, and spherical harmonics. *Three hours a week.* Not given in 1924-25.


110. **Hydrodynamics.**—The subject is treated in such a way as not to require the use of spherical harmonics. The course includes a brief treatment of some of the problems of motion in a fluid, including wave motion and rectilinear vortex motion. *Three hours a week.* Not given in 1924-25.


116. **Theory of Aggregates and Selected Topics on Theory of Functions of Real Variables.**—Not given in 1924-25.


118. **Theory of Transformation Groups (Lie Theory).**—Not given in 1924-25.

119. **Differential Geometry.**—Metric theory of twisted curves and surfaces in space. Lectures and problems. Prerequisite, Solid analytical geometry. *Three hours a week.* Mr. Lucas

120. **Continuation of Course 119.**—*Three hours a week.* Mr. Lucas

**MUSIC**

**Director Sprague**

3, 4. **Music Appreciation.**—A study of the masterpieces of music from the standpoint of the listener. Analytical rather than historical.
The vital forces and personalities in the development of the art noted briefly, but the chief stress laid upon the music itself. The evolution of form traced from the folk-song to the symphony. Lectures, illustrations, prescribed readings, report. Two hours a week.

5, 6. Introductory Harmony.—The grammar of music, basic to an understanding of music structure. The foundation of the art of composition. A study of the conditions under which tones sound together and progress in combination. The invention and harmonization of melodies. A knowledge of notation required. Two hours a week.

7, 8. Advanced Harmony.—Supplementary to Course 5, 6 and designed to apply to the more advanced problems of tone combination the training already obtained. Emphasis placed upon harmonic analysis, melody writing, and composition in the simpler forms. Two hours a week.

9, 10. Counterpoint.—The art of combining melodies. A correlative with Harmony as the material of composition. Freedom and facility of expression in all the forms of music writing developed through its study and practice. Original work the chief aim of the course. Course 5, 6 a prerequisite. Two hours a week.

51. Interpretation and Conducting.—A consideration of the problems of organizing bodies of singers and players; of time-beating; of program building; and of interpretation as applied to the rehearsal and performance of choral and orchestral music. Membership in the university chorus, orchestra, or band a prerequisite. Open to juniors and seniors of sufficient talent. One hour a week.

PHILOSOPHY

Professor Taylor

1, 52. History of Philosophy.—Beginning with primitive thought, in the fall semester, the developments of philosophic conceptions are traced down into the Middle Ages. In the spring, the main trends are followed to the present, as a way to understanding current views. Lectures and discussions. Although continuity is urged, Courses 1 and 52 may be taken in different years; but 1 is prerequisite to 52, and (except by the instructor's special permission) junior standing is prerequisite to 1. Three hours a week.

3. Elementary Problems of Philosophy.—A systematic introduction to the outstanding philosophical problems, and to the principal types of solution that have been suggested for them. Lectures and discussions. Three hours a week.

4. Elementary Logic.—Starting from a biological evaluation of the different types of thinking, the standard modes of testing the results of
reasoning are studied. Lectures, discussions, exercises. *Three hours a week.*

6. **Ethics.**—A consideration of the important points of view in ethical theory, with a view to searching out the basic principles of morals in relation to living. Lectures and discussions. *Three hours a week.* Given in 1924-25 as Philosophy 5.

57, 58. **Modern Problems in Philosophy.**—Philosophy 1 and 52 are prerequisite to either or both of these courses. *Hours arranged.*

Other courses are listed under Psychology.

**PHYSICS**

**Professor Stevens; Professor Fitch; Associate Professor Farnsworth; Mr. Brown; Mr. Martin**

Students electing physics as a major subject are expected to take Courses 1, 2, or 5, 6, and 3, 4, 13, 14, 15, 16, 17, 18, and elect other courses making a total of 30 hours. Courses in mechanics may be taken as physics electives. Students majoring in physics are expected to take several courses in mathematics.

1, 2. **General Physics.**—A course covering mechanics, heat, sound, magnetism, and electricity. Lectures and recitations. *Four hours a week.*

Mr. Fitch, Mr. Farnsworth, Mr. Martin

3, 4. **Laboratory Physics.**—A course covering mechanics, heat, sound, light, and electricity. Special attention is given to the reduction of observations and the tabulation of results. Open to students taking either Courses 1 and 2 or Courses 5 and 6. *†Two hours a week.*

Mr. Brown, Mr. Martin, and Assistants

5, 6. **General Physics.**—A course covering the ground of Courses 1 and 2 with more attention to the experimental and historical aspects, and less to the mathematical. *Three hours a week.* Mr. Stevens

8. **Household Physics.**—A course planned to meet the needs of students in Home Economics. Recitations, *four hours a week*; laboratory work, *†two hours a week.*

Mr. Brown

10. **Meteorology.**—A course covering the essential principles of the subject including a study of instruments and weather predictions. *Three hours a week.*

Mr. Martin

11. **Meteorology.**—A continuation of Course 10 dealing with special topics. Recitations, *two hours a week*; laboratory work. *†two hours a week.*

Mr. Martin

13, 14. **Physics Problems.**—The solution of problems in General Physics. Open to and especially recommended for students in Courses 1 and 2, or 5 and 6. *One hour a week.*

Mr. Fitch
15. **Modern Physical Theories.**—A course dealing with radioactivity, X-rays, the vacuum tube and other electron phenomena which lead to the theory of matter. Ps 1, 2 or 5, 6 are prerequisites. *Three hours a week.*

Mr. Farnsworth

16. **History of Physics.**—A text-book course dealing with the lives of those men who have contributed most to the development of physics. *Two hours a week.*

Mr. Brown

17, 18. **Advanced Physics.**—A course dealing with certain chosen topics somewhat more in detail than the beginning courses. *Two hours a week.*

Mr. Fitch

50. **Optics.**—An advanced course in the subject. Lectures; recitations. Mathematics 8 is a prerequisite. Given in 1924-25 and alternate years. *Three hours a week.*

Mr. Stevens

51. **Optics Laboratory.**—An advanced laboratory course in light. *†Four hours a week.*

Mr. Stevens

52. **Mechanics and Heat Laboratory.**—An advanced laboratory course dealing more with the accuracy of results than Courses 3 and 4. *†Four hours a week.*

Mr. Farnsworth, Mr. Martin, Mr. Brown

53. **Electrical Measurements.**—An advanced laboratory course in the measurement of electrical quantities. Both direct and alternating currents are studied. *†Six hours a week.*

Mr. Farnsworth, Mr. Martin, Mr. Brown

55. **Electricity and Magnetism.**—Recitations on the mathematical theory of direct current phenomena. *Two hours a week.* Given in 1924-25 and alternate years.

Mr. Farnsworth

56. **Electricity and Magnetism.**—A continuation of Course 55, dealing with alternating current phenomena. *Two hours a week.* Given in 1924-25 and alternate years.

Mr. Farnsworth

58. **Mathematical Physics.**—The application of mathematical methods to the treatment of problems in physics. Given in 1924-25 and alternate years. *Two hours a week.*

Mr. Farnsworth

60. **Sound.**—Lectures and recitations. Given in 1923-24 and alternate years. *Two hours a week.*

Mr. Stevens


Mr. Fitch

63. **Theory of Measurements.**—This course is based upon the theory of least squares, and covers such topics as adjustment of observations, propagation of errors, empirical formulae, and graphic methods. *Two hours a week.* Given in 1925-26 and alternate years.

Mr. Stevens

65. **Vacuum Tubes.**—Lectures and recitations covering the theory of the vacuum tube as used in amplifiers, detectors, oscillators, etc. Course
2 and Mathematics 8 are prerequisites. *Two hours a week*. Given in 1925-26 and alternate years.

66. **Vacuum Tube Laboratory.**—Laboratory work with vacuum tubes covering the work of Course 65. ♤*Two hours a week*. Given in 1925-26 and alternate years.

70. **Radio-Activity and X-Rays.**—Laboratory work with X-rays and radioactive substances; the phenomena of ionization, absorption, and diffraction of X-rays; determination of the half life value of radio-active substances. ♤*Two hours a week*. 

71. **Thermodynamics.**—A study of the principles of thermodynamics and their application to problems in physics and chemistry. *Two hours a week*.

72. **Quantum Theory and Atomic Structure.**—This course is planned for those students who wish a more mathematical treatment of these subjects than course 15 provides. *Three hours a week*.

101, 102. **Special Laboratory Courses.**—A subject for investigation is assigned or some published research is repeated. Open only to graduate students. ♤*Four or more hours a week*.

**PSYCHOLOGY**

**Professor Halverson**

1, 2. **General Psychology.**—Introductory course presenting facts and laws of mental life. Psychology of elementary mental processes and higher mental processes, supplemented by class demonstrations. Laboratory work required. *Three hours a week*.


60. **Practical Psychology.**—A short practical course in psychology similar to 61 for students who feel that they cannot afford to give more time to psychology. For arts and science only. Given in 1924-25 and on alternate years. No prerequisites. *Three hours a week*.

61. **Applied Psychology.**—Psychology applied to business, industry, advertising and other fields. The application of psychological methods and tests in the selection and training of workers. For Technology students only. *Three hours a week*.

66. **Educational Psychology.**—Lectures and discussions dealing with the learning process, with special reference to native equipment, per-
ceptive power, progress of learning, and methods of study. Psychology 1, 2 are prerequisites. Three hours a week. Not given in 1924-25.

71. Qualitative Experimental Psychology.—A course designed to afford an understanding of scientific methods in observation as applied to mental material, and to acquaint the student at first hand with the fundamental laws of the psychophysical organism. Psychology 1, 2 are prerequisites. Three hours a week.

81. Abnormal Psychology and Mental Hygiene.—A study of mental abnormalities, for light upon psychological theory and upon problems of human adjustment; with some philosophical, sociological, and educational implications. Prerequisites, Psychology 1 and 2. Three hours a week. Given in 1924-25 as Course 82, second semester. Mr. Taylor

83, 84. Advanced Abnormal Psychology.—Further studies based upon Psychology 82, which is prerequisite to either or both of these courses. Hours arranged. Mr. Taylor

95, 96. Problems in Psychology.—For seniors and graduate students only. Hours arranged.

PUBLIC SPEAKING

Associate Professor Bailey; Mr. Eurich

Courses in Speaking

1, 2. Public Speaking.—This course is primarily for Technology students. It trains the student to organize material and to deliver short speeches from the platform. Extemporaneous speaking on various subjects is especially emphasized. One hour a week. Mr. Bailey, Mr. Eurich

1a, 2a. Public Speaking.—Similar in general character to courses 1 and 2 but primarily for students in Arts and Sciences. This course should be taken by all who can devote two hours to public speaking. Two hours a week. Mr. Bailey, Mr. Eurich

3, 4. Debating.—This course is primarily for Technology students. Public or technical questions of general interest are debated. The principles of argumentation and debate are given careful attention. Students in Technology who continue Public Speaking are generally expected to take this course. Prerequisite, Course 1, 2. One hour a week. Mr. Bailey, Mr. Eurich

5, 6. Argumentation and Debate.—This course in subject matter differs little from Course 3 and 4, but covers the ground more thoroughly. The written argument is especially stressed. Briefs and frequent debates
in class are required. Prerequisites, English 1, 2. Wherever possible
this course should be taken after Course 1a and 2a. Two hours a week.

Mr. Bailey

11. Parliamentary Drill.—After Courses 1, 2 and 3 or 5 and 6.
A drill in the usual house procedure. Speaking from the floor; bills pre­
sent ed by members; questions of the day considered. One hour a week.

Mr. Eurich

12. The Sales Talk.—A course considering the salesman’s problem
in presenting his proposition. Special study of preparation of the sales
talk and of qualities necessary in personality in order to make speech con­
vin cing. Practice in presentation. Prerequisites, Courses 1, 2 and 3 or 5
and 6. One hour a week.

Mr. Eurich

13, 14. Advanced Public Speaking.—After Courses 1, 2, 3, 4 or 5
and 6. A continuation of Public Speaking. Longer and more exact
speeches are expected; a study of representative orators; the structure of
the oration; and the rhetoric of oratory. Two hours a week. Mr. Bailey

20. Intercollegiate Debating.—The subject of this course is the
university debating question of the year. Only students who qualify as
university debaters are permitted to take this course. One hour’s credit is
given.

Mr. Ashworth, Mr. Bailey, Mr. Eurich

Courses in Expression

7, 8. Elocution (Oral Reading).—The reading and rendering of
various selections of merit form the basis of the course. It aims to create
the expressive and art side of speaking. One hour a week. Mr. Eurich

7a, 8a. Elocution.—Similar to Course 7, 8 but requires more out­
side preparation from the student. Two hours a week. Mr. Eurich

9. The One Act Play.—After Course 7, 8 or by written consent
of the instructor. The study and the presentation in class of several one
act plays. Two hours a week. Mr. Bailey

10. The Longer Play.—The study and presentation of two plays.
One modern play and one older play will probably form the basis of this
course. Two hours a week. Mr. Bailey

50, 51. Reading Seminar.—The working out of an entire play.
Open only to advanced students who have shown marked ability in expres­
sion and desire to do serious platform work. The consent of the head of
the Department is necessary for enrollment. Two hours a week.

Mr. Bailey, Mr. Eurich
Major students in Spanish are required to complete the courses in Advanced Composition and the History of Spanish Literature. The requirement of thirty semester hours for a master's degree in Spanish may be met in one year by completing a minimum of twelve hours of advanced work in that language, by writing a satisfactory thesis on some topic connected with Spanish for which six hours' credit will be allowed, by completing the remainder of the required work in not more than two minor subjects, and by passing an oral examination covering all the work of the year.

1, 2. **Elementary Spanish.**—In this course stress will be laid upon conversation as well as upon grammar, reading and composition. The instructor will insist upon careful pronunciation and accurate translation. During the second semester collateral reading may be assigned at the discretion of the instructor. *Five hours a week.*

Miss Arnold, Mr. Gomez-Duran

1a, 2a, 2b. **Elementary Spanish.**—Exactly the same as the preceding except that the course begins in the spring semester and is distributed over more time. The class completes work for four credits in the spring semester and three each semester of the following year. *Four or three hours a week.*

Mr. Peterson or Mr. Gomez-Duran

3, 4. **Intermediate Spanish.**—For second year students. The chief aim of these courses is to acquire sufficient facility in the use of the language so as to be able to read at sight ordinary prose, to gain some acquaintance with present day literature, and to prepare the way for the study of the classics. Collateral reading will be assigned. There will be constant oral practice based on the texts read and much attention will be given to the mastery of idioms. *Three hours a week.*

Mr. Peterson

5, 6. **Elementary Composition and Conversation.**—This course may be taken by second year students who are pursuing at the same time Courses 3 and 4. Stress will be laid on review of the grammar, dictation and composition. Students will be required to memorize selections in prose and verse. Attention will be given to the acquisition of a practical vocabulary. *Two hours a week.*

Miss Arnold, Mr. Peterson

7. **Commercial Spanish.**—For third year students. The object of this course is to acquaint the student with the forms of private and commercial correspondence and the vocabulary used in the business world.
Considerable reading of selections dealing with industrial and commercial life will be required. Given in alternate years; offered in 1925-26. Three hours a week.

Mr. Gomez-Duran

41, 42. The Spanish Novel.—Selections from representative novelists of the modern period such as Fernán Caballero, Valera, Pérez Galdós, Pardo Bazán and Palacio Valdés form the subject of study. Collateral reading, reports and lectures on the history of the novel. Open to students who have completed twenty hours of Spanish. These courses are given in alternate years. Two hours a week.

Miss Arnold

53, 54. Advanced Composition and Conversation.—A continuation of Courses 5 and 6 for third or fourth year students. Translation from English to Spanish, original compositions on assigned subjects, and oral work of different kinds to secure facility in expression form the basis of these courses. Two hours a week.

Mr. Gomez-Duran

57, 58. History of Spanish Literature.—The main facts and theories of the subject will be presented by means of lectures in Spanish. Works of representative Spanish authors and modern books of criticism will be assigned for reading. Some attention will be given at the end to Spanish American literature. Two hours a week.

Mr. Peterson

65. The Teaching of Spanish.—The course is devoted to a consideration of problems and methods of teaching Spanish in the secondary school and of the necessary equipment of the teacher for this work. It includes a study of the characteristic Spanish institutions and of the geography of Spain, a systematic presentation of the principles of Spanish phonetics, the examination of text books, and attention to bibliography. Lectures, investigations, and reports. Open to juniors and seniors. Given in alternate years. Three hours a week.

Mr. Peterson

67. Contemporary Literature.—This course consists of the rapid reading of selections from the best known writers of the present day especially the novelists and dramatists. Among the authors read are Benavente, Martínez Sierra, Baroja and Blasco Ibáñez. Offered in alternate years. Two hours a week.

Mr. Peterson

71. The Romantic Movement.—A study of the principal poets and dramatists of the first part of the nineteenth century such as Espronceda, Rivas, Hartzenbusch and Martínez de la Rosa. Open to students who have completed twenty hours of Spanish. Offered in alternate years. Three hours a week.

Miss Arnold

72. Spanish Classics.—A study of selections from the work of Cervantes, Lope de Vega, Calderón and other writers of the sixteenth and seventeenth centuries. Open to students who have completed twenty hours of Spanish. Offered in alternate years. Three hours a week.

Mr. Peterson
101. **Old Spanish.**—The student will study the laws governing the development of Spanish from popular Latin, and its growth from the beginning to the present day. As many selections will be read from early authors as time permits. Some acquaintance with Latin is presupposed. *Two hours a week.*

**Mr. Peterson**

### Italian

1, 2. **Elementary Italian.**—This is a course in Italian grammar, reading, and composition designed for those who wish to begin as soon as possible the study of the Italian classics. Students will not be permitted to elect Elementary Italian and Elementary Spanish in the same year. *Three hours a week.* **Mr. Peterson**

3. **Modern Italian Prose.**—Selections from representative authors will be studied in an endeavor to acquire as much facility in reading as possible. Review of the grammar, composition and collateral reading. Offered in alternate years. *Three hours a week.* **Mr. Peterson**

52. **Dante.**—The basis of the reading in this course will be the *Inferno.* The life and times of Dante and his influence in literature will be treated by means of lectures and reports. Open to students who have taken Course 3 or an equivalent. Given in alternate years. *Three hours a week.* **Mr. Peterson**
College of Technology

FACULTY OF INSTRUCTION

Harold Sherburne Boardman, C.E., D. Eng., Dean of the College of Technology and Professor of Civil Engineering
Charles Partridge Weston, C.E., M.A., Professor of Mechanics
William Edward Barrows, E.E., Professor of Electrical Engineering
William Jordan Sweetser, B.S., Professor of Mechanical Engineering
Charles Andrew Brautlecht, Ph.D., Professor of Chemistry
Archer Lewis Grover, B.M.E., B.S., Professor of Engineering Drawing
Embert Hiram Sprague, B.S., Professor of Civil Engineering
Benjamin Calvin Kent, B.S., Associate Professor of Mechanical Engineering
Arthur St. John Hill, E.E., Associate Professor of Electrical Engineering
Alpheus Crosby Lyon, B.S., C.E., Associate Professor of Civil Engineering
Bertrand French Brann, M.S., Associate Professor of Chemistry
Harold Walter Leavitt, M.S., Associate Professor of Civil Engineering
Walter Joseph Creamer, E.E., Associate Professor of Electrical Engineering, and Assistant to the Dean of the College of Technology
Paul DeCosta Bray, B.S., Ch.E., Associate Professor of Chemistry
James Strothard Brooks, Assistant Professor of Engineering Drawing
Weston Sumner Evans, M.S., Assistant Professor of Civil Engineering
Harry Dexter Watson, B.S., Assistant Professor of Mechanical Engineering
Harold Chandler White, B.S., Assistant Professor of Chemistry
Charles Mortimer Daniel, B.S., M.E., Assistant Professor of Mechanical Engineering
Carl Everett Otto, Ph.D., Assistant Professor of Chemistry
Everett Willard Davee, Instructor in Mechanical Engineering
Everett Joshua Felker, Instructor in Civil Engineering
Harry Roy Perkins, Instructor in Mechanical Engineering
Everett Louis Roberts, B.S., Instructor in Electrical Engineering
Stanley Gilbert Hall, B.S., Instructor in Engineering Drawing
Rudolph Macy, Ph.D., Instructor in Chemistry
Jeremiah Francis Goggin, M.S., Instructor in Chemistry
Guy Eben Griffin, B.S., Instructor in Civil Engineering
Willard N. Greer, Ph.D., Instructor in Chemistry
GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, and in various branches of engineering. In such technical curricula 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 curricula described below is given a tabulated statement of the subjects pursued and the amount of work required. The college comprises:

Chemical Engineering Curriculum
Chemistry Curriculum
Civil Engineering Curriculum
Electrical Engineering Curriculum
Mechanical Engineering Curriculum

The following requirements for graduation are common to all curricula in this college:

1. A total of 140 semester hours exclusive of military drill and physical training.
2. Mathematics, the equivalent of two years, five hours a week except in Chemistry and Chemical Engineering, where one and two-fifths years are required.
3. Science (chemistry, physics, or biology), the equivalent of one year, five hours a week, of which time an important part must be occupied with laboratory work.
4. Language: English, the equivalent of one year, six hours a week; foreign language, if entrance conditions are fully satisfied students in Civil, Electrical and Mechanical Engineering are not required to take foreign language in college. Students in Chemistry and Chemical Engineering are expected to have a reading knowledge of both French and German. For specific requirements in these languages see the Chemical Engineering Curriculum.

At graduation in any of these curricula 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 may receive the degree of Master of Science. Three or more years after graduation, upon the
presentation of a satisfactory thesis and proofs of professional work, he may receive a professional degree.

Maine Technology Experiment Station

By action of the Board of Trustees, June, 1915, the establishment of a Maine Technology Experiment Station was authorized. This station is under the direct control of the President of the University, the Dean of the College of Technology, and the heads of the Departments of Chemistry and Engineering. The Station carries on practical research in engineering subjects, makes investigations for State Boards and municipal authorities, furnishes scientific information to the industries of the State, and distributes accurate scientific knowledge to the people. Bulletins are issued during the college year.

Chemical Engineering Curriculum

This curriculum is offered to furnish training in engineering and chemistry. The first two years are almost identical with those under the chemistry curriculum, but in the junior and senior years the students enrolled take in part fundamental courses in mechanical and electrical engineering, while in the chemistry curriculum, the student takes subjects having a chemical and biological aspect. Chemical engineering graduates will be prepared to enter the profession of chemical engineering and to occupy positions as chief analysts, production foremen, research chemists, and superintendents' assistants in metallurgical works, bleacheries, dye houses, chemical plants, rubber works, gas works, sugar refineries, pulp and paper mills, etc.

Option I. Regular Curriculum

FRESHMAN YEAR

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<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>Chemistry 1 or 3</td>
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<tr>
<td>Drawing 1, †4</td>
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<tr>
<td>English 1</td>
<td>3</td>
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<tr>
<td>Modern Foreign Language or U.S. History &amp; Government</td>
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<tr>
<td>Mathematics 1 and 3</td>
<td>5</td>
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<tr>
<td>Military 1, †3</td>
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### Sophomore Year

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<tr>
<td>Chemistry 37</td>
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<td>Modern Foreign Language or</td>
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<td>Economics</td>
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<tr>
<td>Mathematics 13</td>
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<tr>
<td>Physics 1-3</td>
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<tr>
<td>Public Speaking</td>
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<td>Military 3</td>
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<td>Chemistry 40</td>
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<td>Mathematics 14</td>
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<tr>
<td>Public Speaking</td>
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<td>Military 4</td>
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<td>Physical Training</td>
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### Junior Year

#### Fall Semester

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<td>Chemistry 71</td>
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<td>German 15 or Biochemistry 3</td>
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<tr>
<td>Mechanical Eng. 83</td>
<td>3</td>
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<tr>
<td>Physics 53, 1+6</td>
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<tr>
<td>Physical Training</td>
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#### Spring Semester

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<td>Chemistry 72</td>
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<td>Chemistry 74, 1+4</td>
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<td>Electrical Eng. 30</td>
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### Senior Year

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<td>Chemistry 95</td>
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<tr>
<td>English 5</td>
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<td>English 9</td>
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<td>Mechanical Eng. 75</td>
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<tr>
<td>Chemistry 78</td>
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<td>Chemistry 80</td>
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<td>Chemistry 100</td>
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<tr>
<td>English 10</td>
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<td>Mechanics 2</td>
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<td>Chemistry 96</td>
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<tr>
<td>Mechanical Eng. 98</td>
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**Note.** Students in Chemistry and Chemical Engineering are expected to demonstrate that they have a reading knowledge of French and German. Students who receive entrance credit in both elementary and intermediate German are expected to take elementary and intermediate French and Scientific German. Students who receive entrance credit in elementary and intermediate French are expected to take elementary, intermediate, and Scientific German. Students receiving entrance credit in both elementary French and German are expected to take intermediate and Scientific German. Students receiving entrance credit for two, three, or four years of
Latin as their only foreign language credit and all others will be treated as special cases.

**Option II**

**Paper and Pulp Curriculum**

**Freshman Year** *Same as Option I*

**Sophomore Year**

<table>
<thead>
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<th>Subject</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Chemistry 31</td>
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<td>Chemistry 37</td>
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<tr>
<td>Biology 17</td>
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<td>German, French, or Economics</td>
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**Junior Year**

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# Chemistry Curriculum

This curriculum is designed to give the student not only a thorough technical training, but also a breadth of education which will enable him readily to undertake the great variety of problems which naturally present themselves to a chemist. It differs from the Chemical Engineering curriculum in that the student takes some courses having a biological aspect, such as bacteriology, biological chemistry, instead of those of an engineering type. The curriculum is a broad one and prepares the student to teach, or for the profession of analytical research chemist in experiment stations, food laboratories, dye, chemical, fertilizer, and tanning plants; metallurgical, rubber, and electric machinery manufactories; and the general consulting and analytical work of a professional chemist.

**Freshman Year  Same as in Chemical Engineering**

**Sophomore Year**

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**Junior Year**

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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 curriculum 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 endeavor is made to impress upon the mind of the student that the granting of his bachelor's degree does not create him an engineer, and to make him see that he has only received the basic 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 a successful engineer.

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 by those engaged only in practical work. These lectures tend to increase the interest of the student and to bring him in touch with men from outside his own institution. During the spring semester of the senior year an inspection trip of about a week's duration is required. The students, under the guidance of their instructors, visit large industrial plants and come in contact with the actual work in many lines of engineering.

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 senior year when it is nearly all professional. At the beginning of the senior year an opportunity is offered to specialize slightly along one of four lines. The first, called Option 1, consists of work in hydraulic engineering and electrical transmission; the second, Option 2, consists of work in railroad engineering; the third, Option 3, consists of work in highway engineering; while Option 4 is specialized along the lines of sanitary engineering.

**FRESHMAN YEAR**

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<tr>
<th>Subject</th>
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**SOPHOMORE YEAR**

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**JUNIOR YEAR**

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Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thorough understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

Courses in Telephone and Radio Engineering are offered to those wishing to continue work in communication engineering after graduation.

It is the endeavor of the curriculum to acquaint the student with contemporary engineering practice, and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.
In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, shop, drawing, and allied engineering courses, together with the cultural subjects enumerated below.

**FRESHMAN YEAR**

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Fall Semester

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Spring Semester

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SOPHOMORE YEAR

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JUNIOR YEAR

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SENIOR YEAR

Fall Semester

Electrical Eng. 51 ....................... 3
Electrical Eng. 75 ....................... 1
Electrical Eng. 75, †3 ............ 1½
Civil Eng. 33 .......................... 1
English 5 ................................ 2
Mechanical Eng. 85 ..................... 3
Options
Electrical Eng. 61 ....................... 2
Electrical Eng. 63 ....................... 2
Civil Eng. 33 .......................... 2
Mechanical Eng. 77, †3 ............ 1½
or
Electrical Eng. 65 ....................... 2
Electrical Eng. 67, †3 ............ 1½
Electrical Eng. 69 ....................... 2
Electrical Eng. 77 ....................... 1

Spring Semester

Electrical Eng. 52 ....................... 2
Electrical Eng. 54, †2 ............ 1
Electrical Eng. 76 ....................... 1
Electrical Eng. 76, †3 ............ 1½
Inspection Trip 78 ..................
Thesis 80 ............................
Options
Electrical Eng. 56 ....................... 3
Electrical Eng. 58 ....................... 2
Electrical Eng. 60 ....................... 2
or
Electrical Eng. 66 ....................... 2
Electrical Eng. 70 ....................... 1
Electrical Eng. 70, †3 ............ 1½
Economics 12 .......................... 3
or
Mechanical Eng. 98 ..................... 2

Mechanical Engineering Curriculum

The field of the mechanical engineer embraces all work 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; the equipment of railways, and similar work.

The Mechanical Engineering Curriculum is arranged to equip 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 by lectures and recitations. The texts are carefully chosen and are supplemented, where necessary to illustrate
more recent practice, by explanation and examples given by 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 are taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thoro instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice 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.

Requirements for Graduation

Freshman Year

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<th>Subject</th>
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<th>Subject</th>
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Sophomore Year

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### JUNIOR YEAR

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### SENIOR YEAR

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<td>English 5</td>
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<td>*Psychology 61</td>
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<td>Electrical Eng. 36</td>
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<td>†Mechanical Eng. 94</td>
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*Substitution may be offered for this course if approved by the major instructor.

†Not required. This course may be substituted for thesis if approved by major instructor.
Departments of Instruction

Note. A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

Courses numbered 1-50 are for undergraduates only; courses numbered 50-100 are for graduates and undergraduates; courses numbered 100 and above are for graduates.

CHEMISTRY AND CHEMICAL ENGINEERING

Professor Brautlecht; Associate Professor Brann; Associate Professor Bray; Assistant Professor Otto; Assistant Professor White; Dr. Macy; Dr. Greer; Mr. Goggin; Mr. Cutler; Miss Perkins

1, 2. General Chemistry.—This course deals with the general principals of the science. Lecture, one hour a week; recitation, one hour a week; laboratory, †four hours a week. Courses 1-2 or 3-4 constitute the first year’s work in chemistry.

Mr. Brautlecht and members of the department staff

3, 4. Advanced General Chemistry.—A course similar to Courses 1, 2, but for students who have had a thorough course in elementary chemistry. Lectures and recitations, two hours a week; laboratory, four hours a week in inorganic preparations. Mr. Brann, Mr. Otto, Mr. Greer

(To enroll in Courses 3 and 4 a student must, at time of registration, present his original laboratory note book in elementary chemistry, approved by and having the signature of his previous instructor and show fitness to pursue the work planned.)

31. Qualitative Analysis.—This course includes the general reactions of substances with their qualitative separation and identification and the examination of industrial and commercial products. Lectures and recitations, two hours a week; laboratory work, *nine hours a week. Mr. Otto

37. History of Chemistry.—One hour a week. Mr. Goggin

40. Elementary Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and
42. **General Applications of Chemistry**.—Lecture course. Not given during semester when the department gives the General Lecture Course. One hour a week. **Staff and outside lecturers**

48. **Mineralogy and Crystallography**.—Prerequisite, Ch 31. 

51, 52. **Organic Chemistry**.—Lectures, recitations, and laboratory work. Course 31 is prerequisite. For juniors. Class room, three hours a week; laboratory, **†Four hours a week**. **Mr. Brautlecht**

56. **Metallurgy**.—An introductory study dealing with iron, steel, and the common metals. Three hours a week. **Mr. White**

61. **Advanced Quantitative Analysis**.—A study of calibration methods, the further application of volumetric methods, etc. Course 40 is a prerequisite. Class room, one hour a week; laboratory, ***nine hours a week**. **Mr. Brann, Mr. Goggin**

62. **Elementary Technical Analysis**.—Application of gravimetric and volumetric methods of analysis to some of the more difficult problems of separation and determination, and to technical products, such as fuels, gases, and alloys. Course 61 is a prerequisite. Class room, one hour a week; laboratory, ***nine hours a week**. **Mr. Brann, Mr. Goggin**

65. **Paper Technology**.—A lecture course on the manufacture of paper and the chemical engineering involved in present day paper making. Course 40 is prerequisite. Two hours a week. **Mr. Bray**

66. **Pulp Technology**.—A lecture course on the processes of manufacturing pulp. Course 65 is a prerequisite. Two hours a week. **Mr. Bray**

67. **Paper Manufacture**.—Laboratory work. Semi-commercial scale production of papers, analysis of paper makers supplies, etc. Course 65 must be taken in conjunction. **†Four hours a week**. **Mr. Bray, Mr. Cutler**

68. **Pulp Manufacture**.—A laboratory course in which pulps of various kinds are made. **†Four hours a week**. **Mr. Bray, Mr. Cutler**

71, 72. **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. Open to students who have completed Chemistry 40, Mathematics 13, and Physics 1-3 and 2-4. Three hours a week. **Mr. Brann, Mr. Macy**

74. **Physico-Chemical Methods**.—The purpose of this course is to illustrate the topics considered in Course 71 and 72, as well as to furnish training in physico-chemical laboratory procedure. Determination of molecular weights; the study of solutions thru conductivity and other methods; rate of reaction and chemical equilibrium; potential and electro-
motive force; colorimetry; the use of the more important instruments, such as the refractometer, polariscope, and spectroscope. †Four hours a week.

Mr. Brann

75. Cellulose.—A course in which cellulose is studied including laboratory work dealing with the characteristics and derivations of cellulose. †Four hours a week.

Mr. Macy

77, 78. Industrial and Engineering Chemistry and Chemical Literature.—General processes of technical chemistry and selected topics, including the principal manufactured products together with general equipment, and the engineering procedure employed, economic factors. Reviews and discussions of important general articles in current American, English, German and French chemical literature. Lectures and recitations. Courses 51, 52, and 61 are prerequisites. Three hours a week. Mr. White.

80. Inspection Trip.—Local trips to manufacturing plants of a chemical nature are taken; also about a week's trip in and about Boston during the spring, when about twenty industrial and chemical plants are visited. A report of this trip is required. The cost of these trips for the past few years was from $35 to $45. Mr. Brautlecht.

82. Paper Coloring.—Course 75 is prerequisite. †Eight hours a week for first half semester. Mr. Bray, Mr. Cutler.

86. Bleaching of Pulp.—A laboratory course dealing with the methods of bleaching various kinds of pulp including use of bleaching powder, chlorine directly, electrolytic bleach production, and efficiency testing. Course 66 is a prerequisite. †Eight hours a week for second half of semester. Mr. Bray, Mr. Cutler.

87. Paper Testing and Analysis.—A laboratory course involving physical, microscopical, and chemical work. The work taken up is that ordinarily assigned to the chemist in a paper mill. It includes the testing of papers for bursting, tensile, folding and tearing strength, stretch, etc. Methods for estimating the quality and quantity of different fibres are also studied in the laboratory. Course 61 is prerequisite. †Four hours a week. Mr. Bray, Mr. Cutler.

88. Paper Testing and Analysis.—Duplicate of Ch 87.

89. Organic Analysis.—Qualitative and quantitative determination in organic compounds of carbon, hydrogen, oxygen, nitrogen, sulphur, phosphorus, the halogens, etc. Courses 51, 52, and 61 are prerequisites. †Four hours a week. Mr. Brautlecht.
90. **Organic Preparations.**—The preparation of a large number of typical organic compounds. Courses 51, 52 are prerequisites.  †*Four hours a week.*  
Mr. Brautlecht

91, 92. **Advanced Organic Chemistry.**—A course involving the general and also special topics of organic chemistry. Prerequisite, Courses 51, 52.  *Three hours a week.*  
Mr. Greer

94. **Dyeing.**—The practical application of dyes, with and without mordants, to the important textile fibres and filaments. Course 75 is a prerequisite.  †*Four hours a week.*  
Mr. Brautlecht

95, 96. **Electrochemistry.**—A lecture and textbook course on the theory and general principles of the subject and its application in industrial work, including electrolytic bleach. Courses 71 and 72 are prerequisites.  *Three hours a week.*  
Mr. White

100. **Thesis.**—The thesis will embody the result of the study of a special problem in the laboratory. It will partake of the nature of original investigation, and will ordinarily require not less than †*four hours a week.* This requirement, as throughout the College of Technology is in addition to the 150 hours required for graduation.  
Staff Members

101, 102. **Investigations in Organic Chemistry.**—Time and credit hours arranged.  
Mr. Brautlecht

103, 104. **Investigations in Physical Chemistry.**  
Mr. Brann

105, 106. **Investigations in Pulp and Paper Chemistry and Technology.**  
Mr. Bray

111, 112. **Methods of Teaching Chemistry.**—*One hour a week.*  
Time arranged.  
Mr. Brautlecht

Equipment obtained and receipted for by a student and not returned at the end of a course in good condition, as well as a few non-returnable supplies and a few special chemicals, will be charged to the student at cost. The supply room will be open during all laboratory periods for the obtaining of special equipment on charge slips and for replacing broken articles or obtaining permanent equipment and special chemicals and supplies on charge slips or breakage cards. Breakage cards may be obtained only at the Treasurer's office and all students are required to have one. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the storeroom.

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

For chemistry courses in the summer session, see the Summer Session Bulletin and special folder.

For chemistry curriculum leading to the degree of bachelor of arts in chemistry, see College of Arts and Sciences.
CIVIL ENGINEERING

Professor Boardman; Professor Sprague; Associate Professor Lyon; Associate Professor Leavitt; Assistant Professor Evans; Mr. Felker; Mr. Griffin

1. **Plane Surveying. Field Work.**—This course consists of practice in the use of the chain, tape, compass, transit, level, and other surveying equipment. Required of all students in the Departments of Civil Engineering and Forestry. *Twelve hours a week.* First nine weeks.

Mr. Evans, Mr. Felker

2. **Plotting.**—This course consists chiefly of map drawing from fields notes, by the different methods in common use. Courses 1 and 7 are prerequisite. *Eight hours a week.* First twelve weeks.

Mr. Evans, Mr. Felker

3. **Plane Surveying.**—A course similar to Course 7. Given to students in the Departments of Mechanical and Electrical Engineering. *One hour a week.* Last twelve weeks.

Mr. Leavitt

4. **Field Work in Surveying.**—A continuation of Course 1. This course consists of original surveys, problem work, note keeping, etc. Course 1 is prerequisite. *Nine hours a week.* Last six weeks.

Mr. Evans, Mr. Felker

5. **Field Work in Surveying.**—The use of the chain, compass, transit, and level. Required of all students in the Departments of Mechanical Engineering and Electrical Engineering. Given in connection with Course 3 but not with Course 7. *Three hours a week.* First six weeks.

Mr. Leavitt

6. **Plane Surveying.**—Recitations and lectures covering the general theory of plane surveying, and other surveying operations; description of surveying equipment, and adjustment of instruments; use of chain, tape, compass, transit, and level. Required of all students in the Departments of Civil Engineering and Forestry. *Three hours a week.* Last nine weeks.

Mr. Felker, Mr. Evans

7. **Railroad Curves and Earthwork.**—A course of recitations and lectures investigating the geometry of railroad curves, switches, and turnouts. Also the field and office practice of staking out and computing earthwork, and the methods and materials of railroad construction, subgrade, roadbed, track and track work. Course 7 or 3 is prerequisite. *Three hours a week.*

Mr. Lyon, Mr. Griffin

8. **Masonry Construction.**—A course including the discussion of stone and brick masonry; cement and cement testing; mortar; plain and reinforced concrete; foundations; pneumatic caissons; culverts, bridge piers, and abutments. *Two hours a week.*

Mr. Griffin
21. **Railroad Field Work.**—The survey for a railroad about two 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 4, 9, or Courses 4, 27 are prerequisites. *Six hours a week.* First nine weeks. **MR. LYON, MR. GRIFFIN**

22. **Advanced Surveying.**—This course consists of lectures, readings, and recitations on the theory and practice of base line measurement, triangulation, precise leveling, topographical surveying, the use of the plane table, the theory and application of least squares and map projection. It is a preparation for Course 24. Course 21 is prerequisite. **One hour a week.** **MR. LYON, MR. GRIFFIN**

23. **Railroad Office Work.**—The office work of mapping the notes taken in Course 21, including the calculation of the earth work. Courses 2, 21 are prerequisites. *Six hours a week.* Last nine weeks. **MR. LYON, MR. GRIFFIN**

24. **Junior Field Work.**—This course consists of the practical application in the field and in the office of the principles given in Course 22. Course 22 is prerequisite. Time arranged. Credit, **one hour.**

**All the Staff**

26. **Hydraulics.**—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow thru orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. **Three hours a week.** **MR. LYON**

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 21 and 23. Courses 1, 4, or Courses 3, 5 are prerequisites. **One hour a week.** **MR. LEAVITT**

28. **Structures.**—The theory of the simple beam; loads and reactions; vertical 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 apply the same to the design of simple beams, also to familiarize him with the use of steel hand books, various tables, and the slide rule. **Class room, two hours a week; drawing room, two hours a week.** **MR. SPRAGUE**

29. **Sanitary Engineering.**—The general principles of sewer design and construction, and sewage disposal; a study of city sanitation. Course 1 or 3 is prerequisite. **Two hours a week.** **MR. SPRAGUE**

30. **Highway Construction.**—The construction and maintenance of city pavements and country roads under various conditions of traffic, climate, soil, etc. Course 1 or 3 is prerequisite. **Two hours a week.** **MR. LEAVITT**
33. **Foundations.**—A short course in the fundamentals of design for different classes of foundations; bearing power of soils, manufacture of cement, mixing and testing of cement and concrete, cofferdams, pneumatic caissons. Required of students in Mechanical and Electrical Engineering. *One hour a week.*

Mr. Felker

35. **Hydraulics.**—A short course which includes the main principles given in Course 26. Given to students in the Departments of Mechanical and Electrical Engineering. *Two hours a week.*

Mr. Lyon

51. **Hydraulic Field Work.**—The measurement of the flow of rivers is illustrated by the use of the current meter. The data thus obtained is used to plot the rating curves, etc. The measurements taken are reported to the U. S. G. Survey. The expenses of this course are paid by the students. Required of students taking Options 1 and 4. Course 26 is prerequisite. *‡Four hours a week.*

Mr. Lyon, Mr. Griffin

52. **Hydraulic Engineering.**—A continuation of Course 55. The development and utilization of water power; the modern turbine; inspection of hydro-electric plants. *Two hours a week.*

Mr. Lyon

53. **Hydraulic Field Work.**—A short course similar to Course 51. Required for students taking Options 2 and 3. Course 26 is prerequisite. *‡Two hours a week.*

Mr. Lyon, Mr. Griffin

54. **Cement Laboratory.**—This course consists of making the regulation commercial tests upon different samples of cement. Required of students in Civil Engineering. Course 20 is prerequisite. *The time varies.*

Mr. Leavitt, Mr. Felker

55. **Hydrology.**—A study of stream-flow as applied to water power development; rainfall; evaporation; run-off; methods of obtaining data with a study of their use. Required of students electing Options 1 and 4. Course 26 is prerequisite. *Two hours a week.*

Mr. Lyon

57. **Structures.**—A continuation of Course 28. 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.*

Mr. Boardman, Mr. Sprague

58. **Structures.**—A continuation of Course 57. This course includes a study of the higher types of structures. *Three hours a week.*

Mr. Boardman

59. **Designing.**—This course takes up the design for some of the common types of steel structures, and the preparation of the shop drawings. Course 28 is prerequisite. *‡Nine hours a week.*

Mr. Sprague
60. Graphic Statics.—Class and drawing room work in the graphical determination of shear and bending moment, and the analysis of bridge and roof trusses by graphical methods. Course 57 is prerequisite. Two hours a week.  
Mr. Evans

61. Road Materials Laboratory.—Physical and chemical tests of sand, gravel, stone, bituminous compounds, corrugated steel culverts, asphalt, tar, and other road materials. Course 30 and Chemistry 1 or 3, 2 or 4, 5, 6 are prerequisites. †Two hours a week.  
Mr. Leavitt, Mr. Evans

62. Designing.—A continuation of Course 59. Course 57 is prerequisite. †Six hours a week.  
Mr. Sprague

63. Highway and Railroad Engineering.—One half of the semester is devoted to the economics of railroad location and operation; the railroad corporation, its rights and limitations; traffic; operating expenses; the locomotive and its work; distance; curves; grades; etc. The other half semester is devoted to highway management and economics; state highway commissions, their functions and divisions; highway organization, management, and legislation; economic factors of highway location and design. Required of students electing Option 2 and 3. Courses 25 and 30 are prerequisite. Three hours a week.  
Mr. Sprague, Mr. Leavitt

64. 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 63. 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. Required of students electing Option 2. Courses 23, 63 are prerequisites. †Four hours a week.  
Mr. Evans

66. Railroad Engineering.—A course of lectures and recitations studying various railroad problems; structures, grade crossings and elimination; yards and terminals; signals and interlocking; maintenance and betterment work as discussed in engineering periodicals; Required of students electing Option 2. Course 63 is prerequisite. Two hours a week.  
Mr. Evans

67. Graphic Statics.—Class and drawing-room work in the graphical determination of shear and bending moment, and the analysis of roof trusses by graphical methods. Required of students in Mechanical Engineering. Two hours a week.  
Mr. Evans

68. Highway Design.—Drawing room study of highway location and relocation including plans of proposed improvement and construction of about five miles of highway with detailed estimates and specifications for the same. Also design of street intersections. Required of students electing Option 3. Course 63 is prerequisite.  
Mr. Leavitt

72. Highway Engineering.—An advanced course of lectures and recitations on various highway problems; general survey of higher types
of pavements; city planning; specifications; cost keeping; maintenance and repair work as discussed in Engineering periodicals. Required of students electing Option 3. Course 63 is prerequisite. *Two hours a week.*

**Mr. Leavitt**

### 74. Sanitary Engineering

-Lectures and recitations dealing with the design and operation of treatment plants for sewage disposal. A study of water supply for domestic uses. Ce. 29 is prerequisite. Required of students electing Option 4. *Two hours a week.*

**Mr. Sprague**

### 80. Inspection Trip

-A visiting trip of about one week's duration to various manufacturing and power plants. Required of seniors.

97 and 98. Thesis Work.—The study of and report upon some original investigation, or design. *Time to be arranged.* See regulations regarding degrees.

**Mr. Sprague, Mr. Lyon, Mr. Leavitt**

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### Electrical Engineering

**Professor Barrows; Associate Professor Hill; Associate Professor Creamer; Mr. Roberts; Mr. Meserve**

1, 2. Elements of Electrical Engineering.—Fundamental laws and principles of electricity; series and parallel circuits; the magnetic circuit; dielectric circuit; conduction thru electrolytes and gases; thermionics; electrical instruments; electrical measurements. Recitations and problems. *Three hours a week.*

**Mr. Hill; Mr. Creamer**

5. Electrical Machinery.—Application of the laws studied in Courses 1 and 2 to fundamental design problems common to all types of electrical machinery. Theory, construction, and application of direct-current generators and motors. Lectures, recitations, and problems. Course 2 is prerequisite. *Three hours a week.*

**Mr. Hill**

6. Alternating Current Circuits.—Graphical and analytical methods of dealing with alternating voltages, currents, and fluxes. Theory of circuits containing resistance, inductance, and capacitance. Introduction to polyphase systems and the measurement of three-phase power. Lectures, recitations, and problems. Course 5 is prerequisite. *Three hours a week.*

**Mr. Hill**

7, 8. Electrical Laboratory.—Electrical measurements; operation and testing of direct-current generators and motors. Introductory experiments of alternating-current circuits and machines. Application of the work of Courses 1, 2, 5, 6. Course 2 is prerequisite; Courses 5 and 6 are concurrent. *One hour a week class room; three hours a week laboratory.*

**Mr. Meserve**
22. **Elementary Telephony.**—Principles of telephone apparatus; the subscribers' set; common battery and local battery circuits; central office equipment and circuits. The work is descriptive and non-mathematical. Lectures and recitations. Course 2 is prerequisite. *Two hours a week.*

Mr. Meserve

30, 35. **Direct Current Machinery.**—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the mechanical and chemical engineer. Recitations and problems. *Two hours a week.*

Mr. Roberts, Mr. Meserve

31, 36. **Alternating Currents.**—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations and problems. Courses 30 or 35 prerequisite. *Two hours a week.*

Mr. Barrows, Mr. Meserve

33, 38. **Electrical Laboratory.**—These courses are based on Courses 30, 31, 35 and 36. Operation of direct current and alternating current generators and motors; electrical power measurements. Courses 30 or 35 prerequisite. *Three hours a week.*

Mr. Roberts

42. **Electrical Power.**—Electrical measurements; the generation, transmission, and utilization of electrical power. Lectures, recitations, and problems. *Two hours a week.*

Mr. Meserve


Mr. Barrows

52. **Advanced Electrical Engineering.**—Advanced electrical theory and operation of alternating current systems. Problems involving previous courses of the curriculum. Lectures, recitations, and problems. Course 51 is prerequisite. *Two hours a week.*

Mr. Barrows

54. **Technical Reviews.**—A study of some special phase of electrical engineering and the presentation of it to the class. Course 51 is prerequisite. *Two hours a week.*

Mr. Barrows

56. **Electrical Power Plants.**—Electrical equipment of power plants, methods of control, switching, protection, lighting arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. Courses 5, 6, and 51 are prerequisites. *Three hours a week.*

Mr. Barrows

58. **Electrical Power Transmission.**—Comparison of transmission systems: direct current, single phase, two phase, three phase; economic principles, solutions by graphical methods and by nominal and equivalent Pi and T circuits; hyperbolic functions; protection; insulation; pole line construction. Lectures, recitations, and problems. Course 51 is prerequisite. *Two hours a week.*

Mr. Hill
60. Advanced Electrical Machinery.—An advanced study of the theory of electrical machinery and its application to the analysis of some of the more difficult problems of operation and design. General methods of procedure in design calculations. Typical examples of modern practice in specification and construction. Lectures, recitations, and problems. Course 6 is prerequisite; Course 51 is prerequisite. Two hours a week. Mr. Hill

61. Illuminating Engineering.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. Course 6 is prerequisite. Two hours a week. Mr. Barrows

63. Electric Railway Engineering.—Preliminary considerations in electric railway engineering; principles governing selection of equipment and design of systems for urban, interurban, and trunk-line roads; engineering and economic problems involved in steam railway electrification. Lectures, recitations, and problems. Course 51 is concurrent. Two hours a week. Mr. Hill

65. Advanced Telephone Engineering.—Theory of apparatus; modern laboratory tests; recent developments. Lectures, and quizzes. Course 22 is prerequisite. Two hours a week. Mr. Creamer

66. Telephone Transmission.—Application of hyperbolic functions to transmission line problems; transmission of speech over cable and open wire circuits; loaded lines; design of artificial lines. Recitations, and problems. Course 65 is prerequisite. Two hours a week. Mr. Creamer

67. Telephone Laboratory.—Efficiency of telephone apparatus; use of the standard cable; local and common battery sets; phantom circuits; filters; speech transmission tests. Course 22 is prerequisite. Course 65 is concurrent. Three hours a week. Mr. Creamer

69. Radio Communication.—Elementary theory of oscillatory circuits; antenna systems; damped wave telegraphy; continuous wave telegraphy; applications of the vacuum tube; elements of radio telephony; reception of damped and continuous waves; radio goniometry. Recitations, problems, and reports on current developments. Course 6 is prerequisite. Two hours a week. Mr. Creamer

70. Radio Engineering.—Detailed study of inductance coils, condensers, and resistors for radio frequencies; vacuum tube theory; extended analysis of oscillatory circuits and methods of excitation; radiation and transmission phenomena; comparisons of methods of transmission and reception; theory of modulation; radio measurements. Lectures, recitations, design problems, and laboratory tests. Course 23 is prerequisite. One hour a week class room; three hours a week laboratory. Mr. Creamer

75, 76. Electrical Laboratory.—Alternating-current instruments and measurements; experimental work on single-phase circuits and polyphase systems. Operation and testing of alternating-current generators, motors,
transformers and converters. Courses 5, 6, 7, and 8 are prerequisites. Courses 51 and 52 are concurrent. One hour a week class room; three hours a week laboratory.

77. Engineering Economics.—A study of the economic features of engineering projects including first cost, salvage values, operating cost, estimating and economic selection. One hour a week.  Mr. Roberts

78. Inspection Trip.—About a week's trip visiting some of the electrical and industrial plants of New England.  Mr. Barrows

80. Thesis Work.—The study of and report upon some original investigation or design. Time to be arranged. See regulations regarding degrees.  Mr. Barrows, Mr. Hill, Mr. Creamer

ENGINEERING DRAWING

Professor Grover; Assistant Professor Brooks; Mr. Hall

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, irregular curves, and orthographic projections. †Four hours a week.  Mr. Grover, Mr. Brooks, Mr. Hall

2. Drawing.—A continued study of the methods of orthographic projection, isometric projection, and oblique projection, accompanied by instruction and practice in the making of working drawings and tracings. †Four hours a week.  Mr. Grover, Mr. Brooks, Mr. Hall

3. Drawing.—The elementary principles and problems of descriptive geometry, including intersections and developments. Two hours a week.  Mr. Grover, Mr. Brooks, Mr. Hall

4. Drawing.—A continued study of the making of working drawings of simple machines, together with instruction and practice in blueprinting. *Six hours a week.  Mr. Brooks, Mr. Hall

9, 10. Drawing.—A course designed especially for students in Agriculture and for non-engineers. It combines the fundamental principles of Course 1 and Course 2. *Three hours a week.  Mr. Brooks

MECHANICAL ENGINEERING

Professor Sweetser; Associate Professor Kent; Assistant Professor Watson; Assistant Professor Daniel; Mr. Davee; Mr. Perkins; Mr. Steward; Mr. Abbott

1. Foundry Work.—Foundry instruction is given in bench and floor molding, mixing of materials, core making, operation of cupolas, etc. *Three hours a week.  Mr. Davee
2. **Woodworking.**—Graded exercises in woodworking designed to make the student familiar with tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of the making of complete patterns and core boxes from drawings. *Six hours a week.*  

Mr. Davee

3. **Forge Work.**—Forging; welding; tool dressing. *Three hours a week.*  

Mr. Davee

4. **Woodworking.**—A shorter course than Course 2, arranged for students in Chemical Engineering. *Four hours a week.*  

Mr. Davee

5, 6. **Shop Work.**—A special course for Agricultural students, covering metal and woodworking with hand tools mostly, belt lacing, and tool sharpening.  

Mr. Davee

7, 8. **Machine Work.**—Lathe work; exercises on planer, shaper, and milling machines; making cut gears, machinists' taps, etc. Course 3 is a prerequisite. *Six hours a week.*  

Mr. Perkins

9, 10. **Machine Work.**—A shorter course than 7, 8, for electrical engineers. *Four hours a week.*  

Mr. Perkins

23. **Elements of Mechanical Engineering.**—A course of lectures, designed to familiarize the student with the mechanical apparatus of manufacturing and power plants. *One hour a week.*  

Mr. Sweetser

24. **Engineering Calculations.**—A course for sophomores only, designed to familiarize them with the use of the slide rule and mathematical tables. Numerous problems are introduced involving the knowledge of elementary formulae and constants used in engineering practice.  

Mr. Watson

25. **Kinematics.**—A study of motion, velocity, and acceleration of machine parts, supplemented by drawings of cams, gear teeth, and graphical studies of kinematical problems. Class room, three hours a week; drawing room, *three hours a week.*  

Mr. Kent

27. **Kinematics.**—A shorter course than 25, arranged for Electrical Engineers. *Three hours a week.*  

Mr. Steward

28. **Kinematics.**—A shorter course than 27, given to Chemical Engineers. *Two hours a week.*  

Mr. Steward

31. **Materials of Engineering.**—Properties of the metals; timber, rope; protective coatings and preservatives. *Two hours a week.*  

Mr. Kent

66. **Machine Design.**—A study of the designing of machines; proportioning of parts for strength, rigidity, etc. Mechanics 51 is prerequisite. *Three hours a week.*  

Mr. Daniel

67. **Machine Design.**—A continuation of Course 66, including the execution of the design of some typical machines. Courses 25 and 66 are prerequisites. *Six hours a week.*  

Mr. Daniel
68. Valve Gears.—A study of the principal steam engine valve motions; construction and use of valve diagrams; solution of practical problems in the drawing room. Class work, two hours a week; drawing room, *three hours a week.

Mr. Kent

69. Mechanical Laboratory.—Elementary experimental work such as calibration of instruments, use of steam and gas engine indicators, mechanical efficiency tests, etc. †Two hours a week.

Mr. Daniel, Mr. Steward

70. Mechanical Laboratory.—Thermal efficiency and economy tests of steam engines, steam turbines and gasoline engines; valve setting, steam calorimetry, etc. †Three hours a week.

Mr. Daniel, Mr. Steward

71. Mechanical Laboratory.—Tests of materials, heating value of liquid fuels, heat balance tests of steam and gasoline engines. †Three hours a week.

Mr. Watson, Mr. Daniel

72. Mechanical Laboratory.—Tests of condensers, boilers, air compressors, fans, hydraulic testing. †Three hours a week.

Mr. Watson, Mr. Daniel

74. Mechanical Laboratory.—A course arranged for students in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs, thru orifices and nozzles; calibration of venturi meters. †Two hours a week.

Mr. Watson, Mr. Steward

75. Mechanical Laboratory.—A course arranged for students in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Course 83 is prerequisite. †Three hours a week.

Mr. Watson, Mr. Steward

77. Mechanical Laboratory.—A course arranged for students in Electrical Engineering. Calibration of instruments; testing of strength of materials; testing of steam engines, gas engines, hydraulic testing. Course 84 is prerequisite. †Three hours a week.

Mr. Watson, Mr. Steward

79. Heat Engineering.—Laws of thermodynamics; laws of gases, saturated and superheated vapors; Carnot's, Rankine's, and actual steam engine cycles; use of steam tables; steam calorimetry; with illustrative practical problems. Mathematics 8 and Physics 1 and 2 are prerequisites. Three hours a week.

Mr. Watson

80. Heat Engineering.—Simple and compound steam engines; flow of steam; air compressors; flow of air; refrigeration. Course 79 is a prerequisite. Three hours a week.

Mr. Watson

81. Heat Engineering.—A continuation of Courses 79 and 80 dealing with steam turbines; considerations affecting the design and efficiency of operation of the various types. Three hours a week.

Mr. Sweetser
82. Gas Engines.—Types, operation, fuels and combustion, carburetion, governing, determination of cylinder sizes for given fuel and horsepower and of flywheel weights for given regulation. Courses 79 and 66 are prerequisite. *Two hours a week.* Mr. Sweetser

83. Heat Engineering.—A short course for chemical engineers covering the laws of thermodynamics and their application to heat motors, air compressors, refrigerating machinery and power plant equipment. *Three hours a week.* Mr. Daniel

84. Heat Engineering.—A course similar to Course 79, given to Electrical Engineers. *Three hours a week.* Mr. Daniel

85. Heat Engineering.—Simple and compound steam engines; steam turbines; gas engines; gas producers; fuels and combustion; steam and gas plant power equipment and operation. For students in Electrical Engineering. Course 84 is prerequisite. *Three hours a week.* Mr. Watson

86. Power Plants.—Fuels and combustion; types, operations, and arrangement of power plant equipment; design, costs, operating expenses, and economics of steam and gas power plants. Course 81 is a prerequisite. *Two hours a week.* Mr. Watson

88. Design.—A drawing room course covering problems on design of heat motors and power plants. Courses 67 and 81 are prerequisite and Courses 82 and 86 must accompany this course. *Six hours a week.* Mr. Daniel

91. Heating and Ventilation.—Heat resistance of building materials, calculation of heat losses thru various types of walls, windows, etc., heating systems, ventilating systems, humidification. *Two hours a week.* Mr. Sweetser

94. Hydraulic Machinery.—Hydraulic turbine; water wheels; various features of hydraulic power plant development. *Two hours a week.* Mr. Sweetser

96. Seminar.—Preparation, presentation, and discussion of papers on leading engineering topics. *One hour a week.* Mr. Sweetser

98. Factory Organization and Management.—Lectures and assigned reading bearing upon various types of organization for industrial enterprises; planning and equipping of factory plants; systems of management; factory design and construction. *Two hours a week.* Mr. Kent

Inspection Trip.—A visiting trip of one week's duration to various manufacturing and power plants. This trip is open only to seniors who are eligible for graduation. The expense to each student is in the neighborhood of fifty dollars. A complete schedule of the trip is prearranged and a member of the department staff is in charge of the party.

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.
2. **Mechanics.**—An elementary course in the fundamental principles of statics, kinematics, and kinetics, with application to practical problems involving frictional resistance, the transmission of power by belts, and the stresses and strains in beams, trusses, shafts, and columns. For students in Chemical Engineering. *Five hours a week.*

51, 52. **Mechanics.**—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding center 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 curves; torsional stresses and theories of stress in long columns. *Five hours a week.*

101. **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. *Three hours a week.*
Required Courses

MILITARY SCIENCE AND TACTICS

Major Glover; Captain Adams; Captain Ready; Lieut. Nichols; Mr. Kidney; Sergeant Ashley; Sergeant Bays; Sergeant Donchez

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, as Professor of Military Science and Tactics. The course maintained is that of an Infantry Unit of the Reserve Officers' Training Corps, the purpose of which is to train officers for infantry. Graduates fulfilling the requirements of law are eligible for commission in the Infantry Officers' Reserve Corps of the Army. The students are organized into an infantry regiment, including band, officered by cadets selected for character, soldierly bearing, and military efficiency. Instruction is carried on under rules and regulations prescribed by the Secretary of War in accordance with law.

Uniforms, (except shoes) arms, and equipment of the latest model of the U. S. Army, are furnished by the Government.

Each student is required to have a pair of regulation shoes, and to insure uniformity, as well as reduce the cost to the minimum, he is required to secure these from the University. They are issued with the uniform, become the student's property, and the cost is deducted from his military deposit. These shoes are purchased direct from the manufacturers and are charged to the student at cost.

The uniform prescribed is as follows:

For cadet commissioned officers, the olive-drab service uniform prescribed for infantry officers of the United States Army, except that "R. O. T. C." and "Maine" insignia are used; for other than commissioned officers, the olive-drab service uniform prescribed for enlisted men of the United States Army, except that "R. O. T. C." and "Maine" insignia are used.

Cadets are required to wear the uniform when on military duty.

In the following schedule of courses, numbers 1 to 4, inclusive, are required of all physically fit male freshmen and sophomores, except students in the School Course in Agriculture. Courses 5 and 6 are elective for juniors; and Courses 7 and 8 are elective for seniors. The required courses cover two years' instruction as laid down in War Department
regulations. The elective courses also cover two years, and once entered upon become a prerequisite for graduation. Having completed Courses 1 to 4, inclusive, students electing to continue their military training who comply with the requirements of law and regulations are entitled to money commutation of subsistence at a rate fixed by the Secretary of War.

One honor graduate each year is eligible for commission as 2nd Lieutenant of Infantry in the Regular Army without examination, providing such student attains honor grades also in the Advanced Military Course.

The courses are so arranged that the standard required will be that for a platoon leader in an infantry company.

A period of six days field training in camp during the week preceding commencement, completes the year's work for all classes.

The program of training prescribes graded courses, covering a period of four years, as follows:

**BASIC COURSE**

Freshman year, Courses 1 and 2; sophomore year, Courses 3 and 4.

**ADVANCED COURSE**

Junior year, Courses 5 and 6; senior year, Courses 7 and 8.

**BASIC COURSE—THREE HOURS A WEEK**

1. **Military Training**—
   
   (a) **Theoretical Instruction**:
      
      *Infantry Drill Regulations*: Principles and methods of instruction in close and extended order, to include the schools of the soldier, squad, and platoon.
      
      *Military courtesy*: (1) Lectures on fundamental principles of military discipline.
      (2) Relation of courtesy to discipline and efficiency.
      (3) The Military Courtesies of the Army of the United States.
      (4) Demonstrations of correct and incorrect manner of rendering courtesies.

   (b) **Practical Instruction**:
      
      *Infantry Drill*: (1) Close and extended order drills.
      (2) Participation in military ceremonies.
      
      *Physical Training*: (1) Recruit instruction in the setting-up exercises.
      (2) Talks on the need for and object of physical training.
      (3) Mass games and athletics.
2. Military Training—

(a) Theoretical Instruction:

*Infantry Drill Regulations:* Principles and methods of instruction, to include the schools of the platoon and company.

*Rifle marksmanship:* Lectures and talks explanatory of the general scheme and principles of the subject.

*Scouting and Patrolling:* Principles governing the composition, formation, and operations of reconnoitering patrols by day and at night. Differences in methods of operating in open warfare and warfare of position.

(b) Practical Instruction:

*Infantry Drill:* Continuation of Course 1 (b) (1) and (2).

*Rifle marksmanship:* (1) Various steps in rifle marksmanship.
(2) Nomenclature and care of the rifle.
(3) Effect of weather conditions, etc.
(4) Gallery practice.
(5) Methods of coaching.
(6) General rules of definitions.

*Scouting and Patrolling:* Problems and exercises in scouting and patrolling on sand table and terrain.

*Physical Training:* Continuation of Course 1 (b) (1) to (3).

3. Military Training—

(a) Theoretical Instruction:

*Map Reading and Military Sketching:* The instruction necessary to enable the student to read military maps with facility and to make road, out-post, and position sketches.

*Infantry Weapons:* (1) The bayonet—Lessons on the bayonet as an offensive weapon. The spirit of the bayonet. Team work.
(2) The automatic rifle—Lessons on the history, characteristics, and marksmanship of the weapon and the organization and equipment of auto-riflemen.
(3) Hand and rifle grenades—Lessons on the construction and handling of the weapons, including explosives.

(b) Practical Instruction:

*Map reading and Military Sketching:* Problems in map reading. Visibility of points, areas, etc. Route sketching.
REQUIRED COURSES

**Infantry Weapons:** (1) The bayonet—Bayonet training to include the assault course.
(2) Automatic Rifle—Mechanics (stripping, assembling, and functioning). Immediate action. Marksman­ship to include instruction up to range practice.
(3) Hand and Rifle Grenades—Individual instruction with dummy and improvised grenades.

**Command and Leadership:** Exercise of command appro­priate to various grades of non-commissioned officers of an infantry platoon.

4. **Military Training**—

(a) **Theoretical Instruction:**

*Map Reading and Military Sketching:* Continuation of Course 3 (a).

*Musketry:* Weapons of the infantry squad. The theory of fire. Range estimation, target designation, and fire dis­tribution. Fire discipline. Fire control. Control of movement. Conduct of fire in the attack and duties of leaders to include the section. Conduct of fire in the defense and duties of leaders to include the section. Combat practice (use of landscape targets, etc.).


(b) **Practical Instruction:**

*Map Reading and Military Sketching:* Out-post and position sketching. Combined sketching.

*Musketry:* Exercises, demonstrations and tests, using sand table, landscape target, and terrain.

*Military Hygiene, Sanitation, and First Aid:* Sand table demonstrations and problems in camp sanitation. Con-
struction of miniature models of sanitary appliances, camp sites, expedients, etc. Demonstrations and exercises in First Aid to the injured.

Command and Leadership: Continuation of Course 3 (b).

ADVANCED COURSE—FIVE HOURS A WEEK

5. Military Art—

(a) Theoretical Instruction:

Elements of Field Engineering: Instruction to include the principles and methods of military field engineering in the various types of trenches, obstacles, shelters, machine-gun emplacements, observation posts, etc. Organization of working parties and tasks. Selection of location for works of defense. Concealment and camouflage.

(b) Practical Instruction:

Field Engineering: Solution of Military Engineering problems based on (a), above. Demonstrations on sand table. Construction on sand table of miniature models of types of trenches, obstacles, and other defensive works. Reconnaissance, location, and laying out of works on the ground.

Command and Leadership: Exercise of command and leadership appropriate to grades of sergeant and lieutenant.

6. Military Art—

(a) Theoretical Instruction:


REQUIRED COURSES

(2) Rules of Land Warfare—Lectures on general principles.

(b) Practical Instruction:

(2) The 37 mm. Gun (One-pounder)—Mechanics (stripping, assembling, and functioning). Construction, care, and operation of the gun. Types of ammunition. School of the one-pounder section. Exercises and demonstrations in direct and indirect fire.

Military Law: Kinds; sources; jurisdiction; court; procedure; rules of evidence.

Command and Leadership: Continuation of 5 (b).

7. Military Art—

(a) Theoretical Instruction:

Tactics: (1) General view of the organization and conduct of the battalion and higher units.
(2) Principles governing the organization, armament, equipment, and conduct of the rifle, machine gun, howitzer, and headquarters companies, in offensive and defensive combat.
(3) Tactical principles governing the conduct of the platoon and smaller units in offensive and defensive combat. Details of organization, equipment, and tactical employment of the rifle company, machine-gun company, and howitzer company platoons. Combined action.

(b) Practical Instruction:

Tactics: Demonstrations, exercises, and problems on sand table, map, and terrain in subjects covered in (a) (1) to (3), above.
Command and Leadership: Exercise of command and leadership appropriate to grades of sergeant and lieutenant.

8. Military Art—

(a) Theoretical Instruction:

Tactics: Principles governing the employment and details of conduct of covering detachments in open and position warfare.

Military History: Facts of American Military History, including the World War, as to: (1) The sources of authority for our Military Establishment; (2) the development of the military resources and the military strength of the United States; (3) the state of national preparedness for war at critical periods in the History of the United States; (4) the cost of American wars in relation to national unpreparedness.

Lessons from American Military History, as to: (1) The traditional military policy of the United States; (2) the need for national organization for the military defense of the nation.

Administration: Lectures on the practical administration of a company, including the interior economy and the management of the soldier.

(b) Practical Instruction:

Tactics: Demonstrations, exercises, and problems on sand table, map, and terrain in subject as outlined in 8 (a).

Administration: Practical work in the preparation of papers pertaining to the administration of a company. So much as a lieutenant should know concerning military correspondence, preparation and application of War Department forms, use, and disposition of orders, bulletins, and circulars.

Command and Leadership: Continuation of Course 7 (b).

In addition to the above courses, Military Art 9 and Military Art 10 have been established and reserved for selected seniors and juniors and ex-service men, who, being unable for various reasons to register for the Advanced Course, desire to continue their military work as instructors. These students are not members of the R. O. T. C. and are not entitled to draw uniforms from the Government. Their work consists entirely in theoretical and practical instruction of students in the Basic Course.
Required Courses

Physical Education and Athletics

Men’s Division

Professor Kent; Professor Kanaly; Professor Brice; Assistant Professor Wallace; Assistant Professor Murphy

The organization of this department has been planned to give the student such experience and instruction as will enable him to establish habits of recreation which will serve to promote healthful physical activity while in college and in his life after graduation. Because of the fact that methods and type of work for this purpose may change from time to time, no detailed statement of what is expected from the student is deemed advisable. Especial emphasis will be placed upon athletics and out-of-door recreational exercises rather than routine work in the gymnasium, although the latter will undoubtedly have to be utilized as a method of secondary importance.

In addition to these viewpoints, that of individual instruction in hygiene will be continually kept in mind. It seems probable that before the close of the current year physical training in this new and broader sense will be adopted as a general rule for all undergraduates whether freshmen or upperclassmen. As an additional piece of information the following statement concerning athletics may be valuable.

1. Athletics for Men. Student athletics for men are under the supervision of the Athletic Board, composed of members of the faculty, alumni, trustees, and students; and students paying the regular tuition fee are admitted to all contests held on Alumni Field. Teams are maintained in football, cross-country, relay, basketball, track, tennis, and baseball. The management of athletics is in the hands of a graduate manager who carries out the policies of the Athletic Board.

Women’s Division

Director Lengyel

It is the purpose of this department to promote bodily health and strength and to give opportunity for relaxation and recreation.

A medical examination by a woman physician and a physical examination by the director of physical education is given each entering student to ascertain her abilities and limitations. Medical examinations given to all students who are eligible for varsity teams.

Physical Education 1-2.—Required of all freshmen. This consists of two hours of practical class work. In the fall there is a choice of field hockey, tennis, volley ball, or baseball; in the winter, gymnastics, basket-
ball, or winter sports; in the spring track, field hockey, tennis, volley ball, and baseball.

Physical Education 3-4.—Required of all sophomores. As above.

Physical Education 5-6.—Required of all juniors. As above.

Physical Education 9-10.—Elective for upper classmen. This course is especially adapted for those wishing to supplement the teaching of other subjects with gymnastics and coaching sports.

Athletics for Women.—At present, teams are maintained in basketball and field hockey and it is under consideration to schedule some track and baseball.
Maine Agricultural Experiment Station Council

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William George Hunton, Portland
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John Whittemore Gowen, Ph.D.
Elmer Robert Tobey, Ch.E.
Donald Folsom, Ph.D.
Karl Sax, Sc.D.

Dean of the College of Agriculture
Commissioner of Agriculture
State Grange
State Pomological Society
State Dairymen's Association
Maine Seed Improvement Association
Maine Livestock Breeders' Association

Members of the Station Staff
Faculty of Investigation

(The Maine Agricultural Experiment Station)

Warner Jackson Morse, Director.
B.S., Vermont, 1898; M.S., 1903; Sc.D., 1923; Ph.D., Wisconsin, 1912

Alice Woods Averill, Laboratory Assistant.

Louise Mary Baker, Laboratory Assistant.

James Monroe Bartlett, Chemist.
B.S., Maine, 1880; M.S., 1883

Reiner Bonde, Assistant Plant Pathologist.
B.S., Minnesota, 1922

Mildred Rebecca Covell, Assistant in Biology.

Perley Downing, Superintendent of Aroostook Farm.

Donald Folsom, Plant Pathologist.
B.A., Nebraska, 1912; M.A., Minnesota, 1914; Ph.D., 1917

Marjorie Eunice Gooch, Assistant in Biology.
B.S., Maine, 1919; M.S., 1922

John Whittemore Gowan, Biologist.
B.S., Maine, 1914; M.S., 1915; Ph.D., Columbia, 1917

Margaret Martha Honey, Clerk.

Charles Clyde Inman, Clerk.

Iva Angerona Merchant, Scientific Aid.
B.S., Maine, 1923

Mary Leonice Norton, Clerk.

Edith Marion Patch, Entomologist.
B.S., Minnesota, 1901; M.S., Maine, 1910; Ph.D., Cornell, 1911

Karl Sax, Biologist.

Wellington Sinclair, Superintendent of Highmoor Farm.

Hugh Burnice Smith, Assistant Biologist.
B.S., Colorado Agricultural, 1919; M.S., Michigan Agricultural, 1921

Elmer Robert Tobey, Associate Chemist.
B.S., Maine, 1911; M.S., 1917; Ch.E., 1920

Charles Harry White, Assistant Chemist.
Ph.C., Maine, 1897

Emmeline Des-Neige Wilson, Laboratory Assistant.

GOVERNMENT OF THE STATION

By authority of the trustees the affairs of the Station are considered by the Station Council, composed of the President of the University, three
members of the Board of Trustees, the Director of the Station, the heads
and associates of the various departments of the station, the Dean of the
College of Agriculture, the Commissioner of Agriculture, and one mem­
ber each from the State Pomological Society, the State Grange, the State
Dairyman’s Association, the Maine Live Stock Breeders’ Association, and
the Maine Seed Improvement 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 is derived from the following sources: Federal and State appropriations, payments for inspection analyses made
for the Commissioner of Agriculture and from the sale of farm produce.
The Federal income, known as the Hatch and Adams Funds, totals $30,000
annually. The State appropriations for animal husbandry investigations,
investigations upon Aroostook Farm, and upon Highmoor Farm are $5,000
each, for general maintenance $10,000. Through appropriations to the
University the State provides for the cost of printing Station publications.

OBJECT

The purpose of the agricultural experiment stations is defined in the
Act of Congress establishing them as follows:

“It shall be the object and duty of said experiment stations to con­
duct 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 the 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 or 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 and territories.”

The work that the Station can undertake from the Adams Act fund
is more restricted, as the fund can “be applied only to paying the neces­
sary expenses of conducting original researches or experiments bearing
directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states or territories.”

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on Page 23. The station is well equipped in laboratories and apparatus, particularly in the lines of biological, chemical, entomological, horticultural, pomological, plant pathological, and poultry investigations. It has extensive collections illustrating the botany and entomology of the State. It has a library of over 5000 volumes comprising 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 counties of Kennebec and Androscoggin, 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. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar farm crops. The house has two stories with a small wing, and contains about fifteen rooms. It is well arranged for the station offices and for the home of the farm superintendent. The barns are large, affording storage for hay and grain.

AROOSTOOK FARM

By action of the Legislatures of 1913 and 1915 a farm was purchased in Aroostook County for scientific investigations in agriculture to be under “the general supervision, management and control” of the Maine Agricultural Experiment Station. The farm is in the town of Presque Isle, about two miles south of the village, on the main road to Houlton. The Bangor and Aroostook railroad crosses the farm.

The farm contains about 275 acres, about half of which is cleared. The eight room house provides an office, and a home for the farm superintendent. The large barn affords storage for hay and grain and has a potato storage house in the basement.
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 plant and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, and entomological research.

INSPECTIONS

The Commissioner of Agriculture is the executive of the laws regulating the sale of agricultural seeds, commercial feeding stuffs, commercial fertilizers, dairy products, drugs, foods, fungicides, and insecticides. The law requires the Commissioner to collect samples and have them analyzed at the Station. The law also requires the Director of the Station to make the analyses and publish the results.

PUBLICATIONS

The Station issues three series of publications: Bulletins, Official Inspections, and Miscellaneous Publications.

The results of the work of investigation are published in part in scientific journals at home and abroad, in U. S. Department of Agriculture publications, and in bulletins of the Station. All of the more important and immediately practical studies are published in the Station Bulletins. The Bulletins for a year 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 free to residents of Maine 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. 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. These 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.
Graduate Studies

FACULTY OF GRADUATE STUDIES

GEORGE DAVIS CHASE, Ph.D., Dean of Graduate Students and Professor of Latin
LUCIUS HERBERT MERRILL, Sc.D., Professor of Biological and Agricultural Chemistry
JAMES NORRIS HART, Ph.D., Sc.D., Professor of Mathematics
JAMES STACY STEVENS, LL.D., Litt.D., Professor of Physics
JACOB BERNARD SEGALL, Ph.D., Professor of French
HAROLD SHERBURNE BOARDMAN, D.Eng., Professor of Civil Engineering
*CAROLINE COLVIN, Ph.D., Professor of History
WARNER JACKSON MORSE, Ph.D., Sc.D., Director, Experiment Station
CHARLES PARTRIDGE WESTON, C.E., M.A., Professor of Mechanics
WILLIAM EDWARD BARROWS, E.E., Professor of Electrical Engineering
EDITH MARION PATCH, Ph.D., Entomologist, Experiment Station
*LAMERT SEYMOUR CORBETT, M.S., Professor of Animal Industry
*WILLIAM JORDAN SWEETSER, B.S., Professor of Mechanical Engineering
*JOHN WHITTEMORE GOWEN, Ph.D., Biologist, Experiment Station
*ROY MERLE PETERSON, Ph.D., Secretary of the Faculty and Professor of Spanish and Italian
ROBERT RUTHERFORD DRUMMOND, Ph.D., Professor of German
HARLEY RICHARD WILLARD, Ph.D., Professor of Mathematics
JOHN H ASHWORTH, Ph.D., Professor of Economics and Sociology
*CHARLES ANDREW BRAUTLECHT, Ph.D., Professor of Chemistry
HAROLD MILTON ELLIS, Ph.D., Professor of English
EMBERT HIRAM SPRAGUE, B.S., Professor of Civil Engineering
ALBERT LEWIS FITCH, Ph.D., Professor of Physics
KARL SAX, Sc.D., Biologist, Experiment Station
HENRY MARC HALVORSON, Ph.D., Professor of Psychology
CLARENCE COOK LITTLE, S.D., LL.D., Acting for the Department of Education

DONALD FOLSOM, Ph.D., Plant Pathologist, Experiment Station
WILLIAM SENTRY TAYLOR, Ph.D., Professor of Philosophy
PHINEAS WESCOTT WHITING, Ph.D., Professor of Biology
FRANCOIS JOSEPH KUENY, L. és L., Professor of French
JOHN WILLIAM DRAPER, Ph.D., Professor of English
WILLIAM HENRY EYSTER, Ph.D., Associate Professor of Biology

*Members of the Executive Committee for 1924-25.
ADMINISTRATION

Graduate work is administered by the faculty of graduate studies and the dean of graduate students. The details of administration are in the hands of an executive committee consisting of the dean and two members from each of the three general divisions of the university,—Agriculture, Arts and Sciences, and Technology.

ADMISSION

Students who hold a bachelor's degree from the University of Maine, or from an institution granting a fully equivalent degree, and who desire to pursue advanced studies, are admitted as graduate students and are under the direction of the faculty of graduate studies, whether they are candidates for a degree or not.

REGISTRATION

All graduate students, whether candidates for degrees or not, are required to register at the office of the university at the beginning of each semester or summer session.

DEGREES

The degrees of Master of Arts and Master of Science are granted to candidates who hold corresponding bachelor's degrees and fulfill the requirements of residence and scholarship.

The degree of Doctor of Philosophy is granted to candidates who hold a Master's degree and fulfill the requirements of residence and scholarship. At present graduate work for the Doctor's degree is limited to the Department of Biology.

CANDIDATES FOR DEGREES

A candidate for an advanced degree must give evidence by his previous record that he is qualified to do graduate work of a satisfactory grade.

If he is a graduate of another institution he is required to submit, with his plan of study, credentials covering the courses pursued and the standing attained.

APPROVAL OF COURSES

The general course of study of each candidate for a degree must be planned with the advice of the major instructor and approved by the Executive Committee at the beginning of the course.
REQUIREMENTS FOR THE MASTER'S DEGREE

A candidate for the master's degree is required to devote at least one year to graduate resident study and to complete work amounting to fifteen hours per week throughout the college year (thirty semester hours).

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

In the case of summer session students, four sessions, or the equivalent, are normally accepted as equivalent to a continuous year of residence.

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

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

In special cases all of 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.

Courses of study intended primarily for graduates are numbered above 100 in the catalog. Courses numbered under 50 may not be counted for graduate credit. Courses numbered between 50 and 100 may be counted upon approval.

The candidate shall prepare as a part of his curriculum a satisfactory thesis on some topic connected with his major subject. The subject of the thesis must be submitted by the end of the first semester of study. The thesis must be deposited in completed form with the dean of graduate students on or before May 15 of the final year of study, or in the summer session at a date assigned.

Detailed requirements for the form and arrangement of theses may be found under the appropriate heading.

At the end of the course of study for the master's degree, the candidate will be required to pass an oral examination covering his work, including the thesis. This examination shall be open to all voting members of the faculty of the university. The time for such examinations will be arranged by the dean to accord, so far as possible, with the convenience of the candidate and the major instructor, between the dates of May 15 and June 1; but no student will be admitted to an oral examination until his thesis has been accepted by his major instructor. On May 15, the dean will notify the heads of all departments of the university of the dates set for the public oral examinations of all candidates of the year. While the examination will in each case, as a matter of course, be conducted chiefly by the members of the department in which the work has been done, any member of the faculty present at the examination has the privilege of questioning the candidate.
REQUIREMENTS FOR THE DOCTOR'S DEGREE

For each candidate for the degree of Doctor of Philosophy the dean shall appoint an advisory committee of three members of the faculty of graduate studies which shall have general direction of the student's course of study, his thesis, and examination.

At the end of his course of study the candidate shall be given an oral examination, open to voting members of the university faculty and such other persons as may be especially invited by the dean. It shall include, in addition to the defense of the thesis, the general subject of his field of study. This examination shall be held at least two weeks before commencement. The candidate shall also be required to pass such written examinations during his final year of study as his advisory committee may determine.

A candidate for the degree of Doctor of Philosophy shall pursue not less than three years of graduate study in approved institutions the last year of which must be spent in residence at the University of Maine.

The candidate shall prepare a satisfactory thesis which must be completed and submitted to his advisory committee by the first of May of the final year of study, and must be approved by this committee before he is admitted to the oral examination. A copy of the thesis, in printed or typewritten form, shall be deposited in the university library.

Each candidate for the degree of Doctor of Philosophy, before his final year of study, shall be required to show to the satisfaction of his advisory committee a working knowledge of such foreign languages as this committee shall deem necessary.

PASS BOOKS

Each candidate for a degree is furnished with a pass book containing the names and number of the courses which have been approved for his degree, and spaces for entering the date of beginning and completing each course, to be filled in by the instructor. This book is the student's official record of his course and should be carefully preserved and presented at the time of his final examination.

PROFESSIONAL DEGREES

The professional degrees of Chemical Engineer (Ch.E.), Civil Engineer (C.E.), Electrical Engineer (E.E.), and Mechanical Engineer (M.E.) may be conferred upon graduates in the curricula in Chemistry, Chemical Engineering, Electrical Engineering, and Mechanical Engineering, respectively, upon the presentation of satisfactory theses, after at least three years of professional work subsequent to graduation. During at least two
of the years after graduation the candidate must have occupied a position of responsibility. Candidates are expected to be present in person to receive their degrees.

TUITION AND FEES

The tuition charges for graduate students are the same as for undergraduates.
Candidates for professional degrees are required to pay a fee of $5.00 at the time of registration, and a fee of $10.00 upon the presentation of the thesis.

SCHOLARSHIPS

The trustees have established three competitive graduate scholarships, one for each college, of the value of a year's tuition, open to members of the senior class.

UNIVERSITY OF MAINE STUDIES

The University of Maine Studies, Second Series, are issued quarterly, under the direction of the Faculty of Graduate Studies, for the purpose of publishing notable articles of research produced by graduate students and members of the University faculty. The first volume in the new series is The Life and Work of John Davis (1774-1853), by Thelma Louise Kellogg, M.A. (English), 1923. Other forthcoming studies are Economic Feminism in American Literature prior to 1848 (in press), by Augusta Genevieve Violette, M.A. (English), 1924; and the Life of Thomas Green Fessenden, by Porter Gale Perrin, M.A. (English), 1921.

Copies of the Studies may be obtained from the University Press at fifty cents each.

List of University of Maine Studies—First Series

No. 1 Effect of Magnetization upon the Elasticity of Rods
   By James S. Stevens                        Oct. 1900
No. 2 The Life History of Nucula delphenodonta (Mighels)
   By Gilman A. Drew                         Nov. 1901
No. 3 The Preliminary List of Maine Fungi
   By Percy LeRoy Ricker, M.S.               Apr. 1902
No. 4 Catalog and Bibliography of the Odonata (Dragon Flies of Maine)
   By F. L. Harvey                          1906
No. 5 Study of the Physiographic Ecology of Mt. Katahdin, Maine
   By L. H. Harvey
No. 6  The Habits, Anatomy and Embryology of the Giant Scallop
(Pecten tenuicostatus Mighels)
By Gilman A. Drew  Sept. 1906

No. 7  Meteorological Conditions
By James S. Stevens  Feb. 1907
Since 1902, with the exception of the years 1919 and 1920, the University has conducted an annual summer session of six weeks, beginning usually in the last week in June and ending early in August. The registration has steadily increased to three hundred in the 1922 session, and the number and range of courses have increased correspondingly. Instruction is given in nearly all departments of the College of Arts and Sciences, principally by heads of departments and other teachers of professorial rank in that college. Courses are also offered in Physical Education, and Pulp and Paper Making.

The Summer Session is primarily for the benefit of teachers and superintendents in Maine and from other states who desire to improve themselves by taking professional courses required by the State Department of Education, or by pursuing subjects which may be helpful to them in connection with their work; and for students in the University or other colleges who desire advanced credit toward graduation. Especial attention is given to teachers' courses in the various subjects offered. Normal school graduates who are admitted to advanced standing in the University as candidates for a bachelor's degree may do a part of their work in the Summer Session. Properly qualified graduates of colleges or universities may complete graduate work in certain departments leading to the degree of Master of Arts by attendance at four summer sessions, or preferably at two summer sessions and during one regular semester.

Under ordinary circumstances the summer session student is expected to carry not more than three courses, each of which in most cases gives two hours of University credit. Students who are planning to attend the Summer Session should send for the Summer Session Bulletin, to be issued about February 1, 1925, and should plan their courses in advance, if possible consulting the instructors concerned. For any additional information address Dean J. S. Stevens, Director of the Summer Session, Orono, Maine.
Alumni Associations

GENERAL ASSOCIATION

President, Harry E. Sutton, 1909, 161 Devonshire St., Boston, Mass.
Vice President, Norman H. Mayo, 1909, 3 Simmons & Hammond Co., Portland
Clerk, Herman P. Sweetser, 1910, Orono
Executive Secretary, Robert P. Clark, 1915, Fernald Hall, 13 Pond St., Orono
Treasurer, Charles E. Crossland, 1917, Orono

ALUMNI COUNCIL

Members at Large

Term expires

Allen W. Stephens, 1899, 6 No. Michigan Ave., Chicago .......................... 1925
George H. Hamlin, 1873, Orono .......................................................... 1925
E. E. Palmer, 1899, 84 State St., Boston, Mass .................................. 1925
William McC. Sawyer, 1901, 61 Main Street, Bangor ...................... 1926
W. H. Jordan, 1875, Orono ................................................................. 1926
E. E. Chase, 1913, 208 Middle St., Portland .................................. 1926
E. H. Kelley, 1890, Orono .................................................................. 1927
C. Parker Crowell, 1898, 60 Elm St., Bangor .................................. 1927
Mrs. Mildred Prentiss Wright, 1911, 188 Elm St., Bangor ....... 1927
(Fills unexpired term of Miss Joanna C. Colcord, 1906)
Harold P. Marsh, 1909, 15 State St., Bangor ................................. 1927
Wayland D. Towner, 1914, 51 Winsor Ave., Watertown, Mass .... 1927

College of Arts and Sciences

Mrs. Elizabeth Estabrooke Farwell, 1908, 9 Bullock St., Brattleboro, Vt .................................................................................. 1927

College of Agriculture

Arthur L. Deering, 1912, Orono ......................................................... 1926
College of Technology

E. R. Berry, 1904, General Electric Co., W. Lynn, Mass...... 1926

Alumni Representative to Board of Trustees

Hosea B. Buck, 1893, 1 Columbia Bldg., Bangor............. 1927

Ex-Officio Members

Harry E. Sutton, 1909, 161 Devonshire St., Boston, Mass.  
President of the General Alumni Association

Norman H. Mayo, 1909, % Simmons & Hammond Co., Portland

Executive Committee

Norman H. Mayo, (Chairman), E. R. Berry, George H. Hamlin, C. Parker  
Crowell, and Allen W. Stephens

SPECIAL ASSOCIATIONS

College of Agriculture

President, M. D. Jones, 1912, Orono; Secretary, C. E. Crossland, 1917, Orono

College of Law

President, James M. Gillin, L1913, 12 Columbia Bldg., Bangor; Secretary,  
Mark A. Barwise, 1913, 9 Columbia Bldg., Bangor

Short Course Alumni

President, Bertram Tomlinson, 1918sc, Hyannis, Mass.; Secretary, H. Styles  
Bridges, 1918sc, 59 No. Main St., Concord, N. H.

Maine Teachers

President, Hoyt D. Foster, 1916, Orono; Vice President, Roland Cony, 1923, Augusta;  
Secretary, Lindsey March, 1921, Dover-Foxcroft

Local Associations

Androscoggin Valley—President, F. A. French, 1917, Jordan High School,  
Lewiston, Maine; Secretary, Lester H. Morell, 1915, 13 Lisbon St., Lewiston

Aroostook County—President, E. M. Fulton, 1911, Mars Hill; Secretary,  
Clayton Steele, 1911, Presque Isle
ALUMNI ASSOCIATIONS

Baltimore—President, S. H. T. Hayes, 1890, Cecil Apts., Baltimore, Md.; Secretary, Elwood I. Clapp, 1917, 5208 St. George Ave., Baltimore, Md.


Boston Club University of Maine Women—Secretary, Vera L. Mersereau, 1918, 31 Bedford St., West Somerville, Mass.

Central District—President, Carlos Dorticos, 1903, 1016 Monadnock Bldg., Chicago, Ill.; Secretary, Harry G. Jordan, 1913, 2328 East 70th St., Chicago, Ill.

Central Maine—President, M. F. McCarthy, 1911, 61 Benton Ave., Waterville; Secretary, C. A. Blackington, L1914, 120 Main St., Waterville


Dominion—President, A. Guy Durgin, 1908, 52 The Drive, Sault Ste. Marie, Ont.; Secretary, Manley W. Davis, 1918, Abitibi Power & Paper Co., Iroquois Falls, Ont.

Eastern New York—President, W. C. Plumer, 1921, 11 Eagle St., Schenectady, N. Y.; Secretary, H. R. Butler, 1920, 116 Mohawk Ave., Scotia, N. Y.

Golden Gate—President and Secretary

Hancock County—President, Guy E. Torrey, 1909, Bar Harbor; Secretary, David O. Rodick, 1917, Bar Harbor

Hartford—President, Guy V. Dyer, 1913, 504 Prospect Ave., Hartford, Conn.; Secretary, E. Hyland May, 1918, Trav. Insurance Co., Hartford, Conn.

Kennebec County—President, Paul D. Sargent, 1896, State House, Augusta; Secretary, E. L. Newdick, 1918, State House, Augusta

Knox County—President, Alan L. Bird, 1900, Rockland; Secretary, R. S. Sherman, 1906, Rockland

New York—President, Paul W. Monohon, 1914, 106 Chambers St., New York, N. Y.; Secretary, M. C. Ellsworth, 1919, 1192 Ocean Avenue, Brooklyn, N. Y.

Oxford County—President, J. B. Stevenson, L1900, Rumford; Secretary, Elon L. Brown, 1908, Norway

Penobscot Valley—President, J. P. Ramsay, Ex-1918, Crogan Mfg. Co., Bangor; Secretary, Ralph Whittier, 1902, Penobscot Savings Bank Bldg., Bangor


Pittsburgh—President, G. A. Wakefield, 1910, 627 Oliver Bldg., Pittsburgh, Pa.; Secretary, L. R. Douglass, 1920, 5503 Howe St., Pittsburgh, Pa.
Providence—President, E. L. Milliken, 1908, Rocky Hill, Conn.; Secretary, C. F. Brugge, Ex-1918, 17 Elma St., Providence, R. I.

Sagadahoc County—President, A. T. Barrows, 1907, 1 Maple St., Brunswick; Secretary, H. E. Pratt, 1921, 7 Everett St., Brunswick

Somerset County—President, LeRoy Folsom, 1895, Norridgewock; Secretary, Gerald C. Marble, Ex-1917, Cor. Madison Ave. & High Sts., Skowhegan

Southern California—President, L. A. Boadway, 1891, % Boadway Bros., Pasadena, Cal.; Secretary, E. M. Loftus, 1914, 420 Pacific Finance Bldg., Los Angeles, Cal.

Southern New Hampshire—President, R. P. Mitchell, 1911, Amoskeag Bank Bldg., Manchester, N. H.; Secretary, H. Styles Bridges, 1918, 59 N. Main St., Concord, N. H.


Waldo County—President, Chas. S. Bickford, 1882, 30 Cedar St., Belfast; Secretary, Will R. Howard, 1882, Belfast

Washington—President, G. P. Merrill, 1879, 1422 Belmont St., Washington, D. C.; Secretary, Miss Mildred H. Merrill, 1913, 1422 Belmont St., Washington, D. C.

Western Maine—President, ————; Secretary, Nelson F. Mank, 1917, 79 Preble St., Portland

Western New York—President, S. C. Clement, 1915, State Normal School, Buffalo, N. Y.; Secretary, A. F. Neale, 1909, 121 Minnesota Ave., Buffalo, N. Y.

White Mountain—President, Chas. Sullivan, 1912, Gorham, N. H.; Secretary, Walter W. Webber, 1916, 133 Clark St., Berlin, N. H.


York County—President, F. R. Chesley, 1911, 402 Main St., Saco; Secretary, Robert Moore, 1916, 292 Alfred St., Biddeford

CLASS SECRETARIES

1872 E. J. Haskell, 541 Brighton Ave., Woodfords
1873 John M. Oak, 13 Third St., Bangor
1874 John I. Gurney, 22 Highland St., Dorchester, Mass.
1875 A. E. Mitchell, 522 Fifth Ave., New York City
1876 E. M. Blanding, 46 Madison St., Bangor
1877
1878 C. C. Chamberlain, Enderlin, N. D.
1880 A. H. Brown, Old Town Enterprise, Old Town
1881
ALUMNI ASSOCIATIONS

1882  W. R. Howard, Belfast
1883  Professor L. H. Merrill, 100 Main St., Orono
1884  L. W. Cutter, 65 State St., Bangor
1885  Dean J. N. Hart, University of Maine, Orono
1886  H. S. French, 211 Crafts St., Newtonville, Mass.
1887  J. S. Williams, Guilford
1888  H. F. Lincoln, Box 23, Fond du Lac, Minn.
1889  Dr. J. S. Ferguson, Malba, Queensboro, New York, N. Y.
1890  Edward H. Kelley, Alumni Hall, Orono
1891  W. M. Bailey, 88 Broad St., Boston, Mass.
1892  
1893  Harry M. Smith, 23 Second St., Bangor
1894  
1895  W. W. Chase, 1079 Beacon St., Brookline, Mass.
1896  Perley B. Palmer, Orono
1897  W. L. Holyoke, 675 Yadkin St., Kingsport, Tenn.
1898  W. L. Lillie, Nashua Co-operative Iron Foundry Co., Nashua, N. H.
1899  Professor A. L. Grover, University of Maine, Orono
1900  W. N. Cargill, Care The Lumsden & Van Stone Co., South Boston, Mass.
1901  M. B. Merrill, 78 Pleasant St., Meriden, Conn.
1903  Paul D. Simpson, Seal Harbor
1904  A. M. Knowles, 71 W. 23rd St., New York City
1905  Professor R. R. Drummond, Orono
1906  Harry Emery, 78 Exchange St., Bangor
1907  Elmer J. Wilson, General Electric Co., W. Lynn, Mass.
1908  E. N. Vickery, Pittsfield
1909  Deane S. Thomas, Monument Square, Portland
1910  Professor Herman P. Sweetser, Orono
1911  Fred Nason, 59 Benton Ave., Waterville
1912  A. L. Deering, Orono
1913  
1914  P. W. Monohon, Care H. J. Frost & Co., 106 Chambers St., New York City
1915  R. H. Fogler, 103 W. 162nd St., New York City
1916  W. W. Webber, 133 Clark St., Berlin, N. H.
1917  F. O. Stephens, 21 Academy St., Auburn
1918  Thelma Kellogg, 8 East St., Attleboro, Mass.
1919  D. B. Demerritt, Orono
1921  Winthrop L. MacBride, 76 Parker St., Brewer
1922  Ian M. Rusk, West Townsend, Mass.
1923  Mary C. Perkins, 37 Tremont Street, Portland
1924  Eric O. Berg, Southwest Harbor
Appointments

**Members of Phi Kappa Phi**

Carl Lewis Beal, Phillips; Henry Stanwood Boynton, Sullivan; Mary Lillian Copeland, Brewer; Theodore Shirley Currier, Amesbury, Mass.; Cecil Gladstone Garland, Bangor; Anna Eleanor Green, Old Town; Francis Edward Handy, Augusta; Theodore Frederick Hatch, Dark Harbor; Beatrice Winnifred Johnson, Portland; Ethelyn Marcia Percival, Bangor; Ellen Victoria Pierson, Garland; Clifford Sanford Reynolds, Bingham; John Alvin Small, Newport; Helen Bernice Wentworth, Bangor.

**Members of Tau Beta Pi**

1924

George Curtis Barney, Orono; Carl Lewis Beal, Phillips; Henry Stanwood Boynton, Sullivan; Guy Eben Griffin, Old Town; Francis Edward Handy, Augusta; Theodore Frederick Hatch, Dark Harbor; Benjamin Hoos, Old Town; Vaughn Loring Ladd, Dover; Virgil Linwood Mackenzie, Old Town; Carl Whitcomb Mcinecke, Bangor; Sidney Osborne, Orono; Paul Perch, Leominster, Mass.; William Christie Riecker, Portland; Chester Maxim Sinnett, Bailey Island; Fred Emery Smith, Westbrook; Colby Weston Steward, St. Johnsbury, Vermont; Arthur Osgood Willey, Gardiner.

1925

Eli Aronson, Hartford, Connecticut; Herbert Edward Bragg, Bangor; Kenneth Leigh Cyphers, Dexter; Randall Hubert Doughty, Cumberland Center; Leo Friedman, Augusta; Donald Francis Hastings, Rockland; Stanley Berry Hyde, Saco; Clifford Virgil Irish, Gorham; Ruel Leroy James, Princeton; Frank Louis Lincoln, Houlton; John Lombard McCobb, Orono; Robert Wentworth Morrison, Bangor; Leroy Allen Mullin, Cape Elizabeth; Mansfield Morton Packard, Bryant Pond; Albert Henry Repscha, Derby; Carl Edwin Ring, Bangor.

1926

Willis Manning Barrows, Dover-Foxcroft.
MEMBERS OF ALPHA ZETA

1924

Frank Howard Clark, Bridgton; George Carroll Hilton, Bridgton; George Edgar Lord, West Lebanon; Charles Edwin Noyes, Norway; Clayton Plummer Osgood, Fryeburg; Earl Pike Osgood, Fryeburg; Bernie Elliott Plummer, Weld; Harrison Lambert Richardson, Orono; John Alvin Small, Newport.

1925

Hervey Selden Bean, Vienna; Mervin Ives Bowden, Bluehill; Norris Charles Clements, Winterport; John Philip Downing, Bangor; Frank Washburn Hussey, Presque Isle; Robert Smith Pike, Cornish; Prescott Ervin Thornton, Springfield.

1926

Bryce Meredith Jordan, Cape Elizabeth; Oscar Lewis Wyman, Rumford.

MEMBERS OF PHI BETA KAPPA

Theodore Shirley Currier, Amesbury, Mass.; Anna Eleanor Green, Old Town; Philip Lewis Gray, Harborside; Philip Ainslee Harriman, Orono; Beatrice Winnifred Johnson, Portland; Ethelyn Marcia Percival, Bangor; Ellen Victoria Pierson, Garland; Clifford Sanford Reynolds, Bingham; Helen Bernice Wentworth, Bangor.

GENERAL HONORS

Carl Lewis Beal, Phillips; Edith Louise Beckett, Calais; Aileen Helen Bennett, New Gloucester; Henry Stanwood Boynton, Sullivan; Mary Lilian Copeland, Brewer; Theodore Shirley Currier, Amesbury, Mass.; Cecil Gladstone Garland, Bangor; Philip Lewis Gray, Harborside; Anna Eleanor Green, Old Town; Guy Eben Griffin, Old Town; Francis Edward Handy, Augusta; Philip Ainslee Harriman, Orono; Theodore Frederick Hatch, Dark Harbor; Theresa Mary Jackson, Waterville; David Jacobs, Lawrence, Mass.; Beatrice Winnifred Johnson, Portland; Esther Angelia Lord, Bangor; Carl Whitcomb Meinecke, Bangor; Effie Noddin, Westfield, Mass.; Ethelyn Marcia Percival, Bangor; Ellen Victoria Pierson, Garland; Bernie Elliott Plummer, Jr., Weld; Clifford Sanford Reynolds, Bingham; Harrison Lambert Richardson, Orono; Philip Arthur Sargent, Sargentville; Max Gerald Shapiro, Newport; John Alvin Small, Newport; Fred Emery Smith, Westbrook; Helen Bernice Wentworth, Bangor; Blair Coburn White, Bangor; Arthur Osgood Willey, Gardiner.
PRIZES AWARDED

Junior Class Scholarship, Leo Friedman, Augusta.
Kidder Scholarship, Donald Lynn Trouant, Augusta.
New York Alumni Association Scholarship No. 1, Not awarded.
New York Alumni Association Scholarship No. 2, Leo Friedman, Augusta.

Pittsburgh Alumni Association Scholarship, Albert Henry Repscha, Derby.

Class of 1873 Prize, Charles Albert Sherer, Rockland.
Central District Alumni Association Scholarship, Henry Welch, Portland.

Elizabeth Abbott Balentine Scholarship, Velma Katherine Oliver, Dexter.

Phi Mu Scholarship, Not awarded.
Joseph Rider Farrington Scholarship, George Farrington Dow, Wayne.
Stanley Plummer Scholarship, Hugh Scott Tibbetts, Vanceboro.
Walter Balentine Prize, Lester Vernon Goff, Hollis Center.
Franklin Danforth Prize, John Alvin Small, Newport.
Washington Alumni Association Watch, Eric Olaf Berg, Rangeley.

Penobscot Valley Alumni Association Scholarship No. 1, Prescott Ervin Thornton, Springfield.
Penobscot Valley Alumni Association Scholarship No. 2, William Asa Hanscom, Orono.

Track Club Scholarship, Claude Gerald Lovely, Old Town.
Alpha Omicron Pi Alumnae Prize, Elizabeth Louise Sawyer, Bangor.
Freshman Scholarship Cup, Phi Eta Kappa.
Agricultural Club Membership Cup, Class of 1927.
Charles Anthony Rice Cup, Phi Eta Kappa.
Class of 1905 Scholarship, Not awarded.
Chi Omega Prize, Lynette Agnes Walker, Orono.
University of Maine Honorary Society Scholarship, Roland Chester Johnson, North Berwick.

Fraternity Scholarship Cup, Lambda Chi Alpha.
Class of 1908 Commencement Cup, Class of 1882.
Pan Hellenic Sorority Cup, Delta Delta Delta.
The Campus Prize, Marada Lucy Johnson, Pittsfield.

Graduate Scholarships

College of Agriculture, Bernie Elliott Plummer, Jr., Weld.
College of Arts and Sciences, Helen Bernice Wentworth, Bangor.
College of Technology, Not awarded.

Phi Beta Kappa Scholarship, Joy Leavitt Nevens, Woodfords.
Twentieth Century Commencement Cup, Class of 1909.
Commencement

**Thursday, June 5**

4.00 P.M. Phi Beta Kappa Initiation  
5.00 P.M. Phi Kappa Phi Initiation  
6.30 P.M. Banquet National Honorary Societies, Balentine Hall.  
    (Phi Kappa Phi, Tau Beta Pi, Alpha Zeta, Phi Beta Kappa)

**Friday, June 6**

9.00 A.M. Meeting of the Board of Trustees  
9.30 A.M. Meeting of the Alumni Council, Library  
9.30 A.M. Class Day Exercises, University Oval  
8.00 P.M. President's Reception, Library  
9.00 P.M. Fraternity Receptions

**Saturday, June 7, Alumni Day**

9.00 A.M. Annual Business Meeting, General Alumni Association, Alumni Hall  
12.30 P.M. Alumni Luncheon, The Commons  
6.00 P.M. Alumni Banquet, Alumni Hall  
9.00 P.M. Alumni Hop, Gymnasium

**Sunday, June 8**

10.30 A.M. Baccalaureate Address by Rev. Thomas Whitmore Fessenden, D.D., Columbus, Ohio  
4.30 P.M. Breaking Ground for Gymnasium and Armory  
6.30 P.M. President and Mrs. Little at home to Senior Class

**Monday, June 9**

9.30 A.M. Commencement Exercises, Address by Dr. Francis Gano Benedict, Boston, Mass., University Oval  
    Conferring of Degrees  
8.00 P.M. Commencement Ball, Gymnasium
Degrees Conferred

College of Agriculture

Bachelor of Science

Danitza Arangelovich (in Horticulture) .............................................. Belgrad, Serbia
Gregory Baker (in Forestry) ......................................................... Bingham
Charles Louis Beckett (in Horticulture) .............................................. Calais
Edith Louise Beckett (in Home Economics) ........................................... Calais
Ray Horace Carter (in Agronomy) ......................................................... Washburn
Wilbur Reed Christopherson (in Forestry) ........................................... Gloucester, Mass.
Frank Howard Clark (in Agronomy) .................................................. Bridgton
Arthur Mosher Cloudman (in Biology) ................................................... Saco
Sarah Elizabeth Crehore (in Home Economics) ........................................ LaGrange
Arthur Lionel Farnham (in Animal Husbandry) ........................................ Orland
William Edward Harmon (in Agricultural Education) ................................ Caribou
William Deane Haskins (in Horticulture) .............................................. Saco
Frederick Gilbert Hills (in Forestry) .................................................. Bangor
George Carroll Hilton (in Horticulture) .............................................. Bridgton
Ralph Melville Hutchinson (in Forestry) ........................................... Houlton
John Elmer Lockwood, Jr., (in Forestry) ................................................ Old Town
George Edgar Lord (in Dairy Husbandry) .................................................. West Lebanon
Karl Harold McKechnie (in Forestry) ................................................... Fairfield
Julian Haskell Merrill, Jr., (in Forestry) .............................................. Orono
Paul Morris Morrill (in Forestry) ...................................................... Biddeford
Osgood Alden Nickerson (in Forestry) ................................................ Bangor

(As of Class of 1922)

Charles Edwin Noyes (in Animal Husbandry) ......................................... Norway
Clayton Plummer Osgood (in Dairy Husbandry) ........................................ Fryeburg
Earl Pike Osgood (in Animal Husbandry) .............................................. Fryeburg
Bernie Elliott Plummer, Jr., (in Animal Husbandry) .................................. Weld
Harrison Lambert Richardson (in Poultry Husbandry) ................................ Orono
Marjorie Harriette Rowe (in Home Economics) ....................................... Brewer
Philip Arthur Sargent (in Forestry) .................................................... Sargentville
Max Gerald Shapiro (in Forestry) ..................................................... Newport
Lena Etta Shorey (in Home Economics) ................................................ Thomaston
John Alvin Small (in Agricultural Education) ....................................... Newport
Willard Walker Spear (in Horticulture) .............................................. South Portland
Clarence Milton Spearin (in Agronomy) ................................................ Clinton
### DEGREES CONFERRED

<table>
<thead>
<tr>
<th>Degree</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carl William Stevens (in Dairy Husbandry)</td>
<td>Millinocket</td>
</tr>
<tr>
<td>Willard Emmons Strong (in Dairy Husbandry)</td>
<td>Augusta</td>
</tr>
<tr>
<td>Chester Volney Sweatt (in Forestry)</td>
<td>Andover</td>
</tr>
<tr>
<td>Constance Marion Turner (in Home Economics)</td>
<td>Gardiner</td>
</tr>
<tr>
<td>Ruth Waterhouse (in Home Economics)</td>
<td>Biddeford</td>
</tr>
<tr>
<td>George Hersey Webb (in Forestry)</td>
<td>Bartlett, N. H.</td>
</tr>
<tr>
<td>Donald Henry Wescott (in Forestry)</td>
<td>Jonesport</td>
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<tr>
<td>Grant Julius Wheeler (in Biology)</td>
<td>East Orange, N. J.</td>
</tr>
<tr>
<td>Harry Steves Wiswell (in Forestry)</td>
<td>Machias</td>
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</table>

### College of Arts and Sciences

#### Bachelor of Arts

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Location</th>
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<tbody>
<tr>
<td>James Gordon Annett</td>
<td>Chemistry</td>
<td>South Berwick</td>
</tr>
<tr>
<td>Hazen Hunter Ayer</td>
<td>Economics &amp; Sociology</td>
<td>Union</td>
</tr>
<tr>
<td>Aileen Helen Bennett</td>
<td>Latin</td>
<td>New Gloucester</td>
</tr>
<tr>
<td>Eric Olof Berg</td>
<td>Mathematics</td>
<td>Rangeley</td>
</tr>
<tr>
<td>Ruth Anne Bessey</td>
<td>Latin</td>
<td>Deer Isle</td>
</tr>
<tr>
<td>Howard Lancaster Bowen</td>
<td>Mathematics</td>
<td>Bangor</td>
</tr>
<tr>
<td>Frank Valentine Burke</td>
<td>Education</td>
<td>Randolph</td>
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<tr>
<td>Ralph Matthew Burns</td>
<td>Economics &amp; Sociology</td>
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<td>Lois Lillian Chadwick</td>
<td>Latin</td>
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<tr>
<td>Mary Lillian Copeland</td>
<td>Mathematics</td>
<td>Brewer</td>
</tr>
<tr>
<td>Edward Chapman Cutting</td>
<td>Economics &amp; Sociology</td>
<td>Warren</td>
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<tr>
<td>Theodore Shirley Currier</td>
<td>History</td>
<td>Amesbury, Mass.</td>
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<tr>
<td>Bruce Ira Davenport</td>
<td>Economics &amp; Sociology</td>
<td>Phillips</td>
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<tr>
<td>Ulmer Winfield Davis</td>
<td>Economics &amp; Sociology</td>
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<tr>
<td>Mary Hattie Friend</td>
<td>Mathematics</td>
<td>Skowhegan</td>
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<tr>
<td>Cecil Gladstone Garland</td>
<td>Economics &amp; Sociology</td>
<td>Bangor</td>
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<tr>
<td>Michael Charles Gentile</td>
<td>Economics &amp; Sociology</td>
<td>Rumford</td>
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<tr>
<td>Albert Cedric George</td>
<td>Economics &amp; Sociology</td>
<td>Fitchburg, Mass.</td>
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<tr>
<td>Doris Marie Gonyer</td>
<td>French</td>
<td>Orono</td>
</tr>
<tr>
<td>Judson Milton Grant</td>
<td>Mathematics</td>
<td>Carmel</td>
</tr>
<tr>
<td>Philip Lewis Gray</td>
<td>Biology</td>
<td>Harborside</td>
</tr>
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(As of the Class of 1916)

(As of Class of 1923)
<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>City</th>
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<tbody>
<tr>
<td>Philip Ainslee Harriman</td>
<td>Biology</td>
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<tr>
<td>Elijah Edgar Harris</td>
<td>Education</td>
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<td>Frederick Albert Hawes</td>
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<td>Elizabeth Frances Hunt</td>
<td>English</td>
<td>Portland</td>
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<tr>
<td>Doris Elizabeth Hunter</td>
<td>History</td>
<td>Rockland</td>
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<tr>
<td>Ione Belle Irving</td>
<td>English</td>
<td>Clinton</td>
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<tr>
<td>Theresa Mary Jackson</td>
<td>(English)</td>
<td>Waterville</td>
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<tr>
<td>David Jacobs</td>
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<td>Lawrence, Mass.</td>
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<td>Beatrice Winnifred Johnson</td>
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<tr>
<td>Ina Jordan</td>
<td>History</td>
<td>Seal Harbor</td>
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<td>Leonard Barker Jordan</td>
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<td>Samuel Sawyer Katz</td>
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<td>Conrad Earl Kennison</td>
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<td>Barbara Philena Keyes</td>
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<td>Margaret Mary Libbey</td>
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<td>Honor Burke McCarn</td>
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<td>Louise Elinor Messer</td>
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<td>Theodore William Monroe</td>
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<td>Ellen Oshea Myers</td>
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<td>Joy Leavitt Nevens</td>
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<td>James Albert Nichols, Jr.</td>
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<tr>
<td>Effie Noddin</td>
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<td>Alice Beatrice Noonan</td>
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<td>Albert Stevens Noyes</td>
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<td>Karl Rufus Oakes</td>
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<td>William Wesley Patterson</td>
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<td>Ethelyn Marcia Percival</td>
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<td>Ellen Victoria Pierson</td>
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<td>Lenora Sylvia Pretto</td>
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<td>Eva Sweetser Pride</td>
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<tr>
<td>Regina Frances Sparks</td>
<td>French</td>
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<tr>
<td>Alice Gertrude Stanley</td>
<td>Mathematics</td>
<td>Bangor</td>
</tr>
</tbody>
</table>
DEGREES CONFERRED

John Lewis Stevens (Mathematics) .........................................................Portland
Ervin Stuart (Economics & Sociology) .....................................................Week's Mills
(As of Class of 1923)
Charles Grandison Taylor (Mathematics) ........................................ Foxboro, Mass.
Philip Hector Taylor (Economics & Sociology) ...........................................Worcester, Mass.
Ruth Elva Waterhouse (Education) ...................................................Old Town
Helen Bernice Wentworth (English) ..................................................Bangor
Morton Church Whitcomb (Education) ................................................Ellsworth
Blair Coburn White (English) ..............................................................Bangor
Elizabeth Mildred Whiteside (Spanish) ..............................................Sanford
Herbert James Wood (Education) .......................................................Lewiston
Kenneth Foster Woodbury (Education) ................................................New Gloucester
Mary Kathleen Young (Latin) ..............................................................Milbridge

BACHELOR OF PEDAGOGY

Doris Mae Grant .................................................................Hall Quarry
Esther Angelia Lord ...............................................................Bangor

College of Technology

BACHELOR OF SCIENCE

Elmer Bradley Benson Abbott (in Civil Engineering) ..............Holliş Center
Frank Cecil Bannister (in Electrical Engineering) ..................South Paris
George Curtis Barney (in Electrical Engineering) .................Orono
Carl Lewis Beal (in Chemical Engineering) ................................Phillips
Lloyd Stanley Beckett (in Electrical Engineering) .................Calais
Henry Stanwood Boynton (in Chemical Engineering) ..............Sullivan
Leonard Jellison Bragdon (in Civil Engineering) ....................Franklin
Frederick Coombs Brown (in Electrical Engineering) ..............Lincolnville
Harold Aiken Burdick (in Electrical Engineering) .................Forest Hills, N. Y.
Wilfred Chadbourne Burr (in Mechanical Engineering) ........Mattawamkeag
Lewis Caplan (in Civil Engineering) ..............................................Portland
Thomas James Carlin (in Chemical Engineering) ......................Bangor
Ellsworth Maguire Carville (in Electrical Engineering) ........North Leeds
John George Leslie Caulfield (in Chemical Engineering) ........Bangor
James Amasa Chalmers (in Chemical Engineering) .................Albion
Harold Jasper Chase (in Mechanical Engineering) .................Portland
Harlan Luther Clapp (in Chemistry) ..............................................Bangor
Stanley Burnham Clifford (in Mechanical Engineering) ........North Edgecomb
George Hubert Cooper (in Chemical Engineering) .....................Presque Isle
Arthur Eugene Covell (in Mechanical Engineering) .................Hinckley
Carl Hudson Crane (in Civil Engineering) ...............................Dover-Foxcroft
Harold Newcomb Currier (in Chemical Engineering) ..............Brewer
Kenneth Leigh Cyphers (in Electrical Engineering) .......................Dexter
James Smith Deuse (in Mechanical Engineering) ....................Westbrook, Conn.
Morris Augustus Dolliver (in Chemistry) ..............................Manset
Lowell Jordan Dow (in Electrical Engineering) .....................Amesbury, Mass.
Merwyn Ruez Driscoll (in Electrical Engineering) ...........Livermore Falls
Harold Lile Durgin (in Electrical Engineering) ........................Randolph
Arthur Fessenden Eastman (in Electrical Engineering) ...........Wollaston, Mass.
Harry Sherwood Fisher (in Electrical Engineering) ...............Ridlonville
John Foote (in Mechanical Engineering) .......................................Sturbridge, Mass.
Ralph Wyman Foster (in Mechanical Engineering) ......................Newcastle
Ernest Osmond Gammell (in Electrical Engineering) ..............Attleboro, Mass.
John Adams Greenleaf (in Mechanical Engineering) ...............North Edgecomb
Guy Eben Griffin (in Civil Engineering) .................................Old Town
John Raymond Ham (in Mechanical Engineering) .....................Monmouth
Francis Edward Handy (in Electrical Engineering) ................Augusta
Theodore Frederick Hatch (in Civil Engineering) ......................Dark Harbor
James Louis Hayes (in Chemical Engineering) ..........................Biddeford
Hillis Wyman Holt (in Mechanical Engineering) ......................North Orrington
Benjamin Hoos (in Chemical Engineering) ..............................Old Town
Louis Cecil Horsman (in Civil Engineering) ..........................Presque Isle
Harold Walker Howe (in Mechanical Engineering) .....................Deer Isle
Robert Daniel Huston (in Electrical Engineering) ...............Woodfords
Perry Wendell Judkins (in Mechanical Engineering) ...............Upton
Harold Lee Kelley (in Electrical Engineering) ...............................Lubec
Oral Glenwood King (in Civil Engineering) ..............................New Portland
Vaughn Loring Ladd (in Mechanical Engineering) ..................Dover-Foxcroft
Nealie William Larson (in Mechanical Engineering) ....................Brownville
Frederick Morey Lindahl (in Mechanical Engineering) ...............West Springfield, Mass.
Dwight Landin McKechnie (in Civil Engineering) .......................Princeton
Virgil Linwood MacKenzie (in Mechanical Engineering) ...........Old Town
James Leslie McLeod (in Civil Engineering) ............................Bangor
John Stanley Martin (in Chemical Engineering) ......................Tamworth, N. H.
Carl Whitcomb Meinecke (in Civil Engineering) ......................Bangor
Frank Baxter Morrill (in Mechanical Engineering) ......................Milo
Virdell Everard Munsey (in Chemical Engineering) ..................North Edgecomb
Eugene Joseph Nadeau (in Chemical Engineering) .......................Great Works
Philip Tracy Oak (in Chemical Engineering) ...........................Bangor
Timothy Paul O'Connor (in Civil Engineering) .......................Biddeford
Sidney Osborne (in Mechanical Engineering) ..............................Orono
Ivan Ralph Pease (in Mechanical Engineering) .........................Winthrop
Paul Perch (in Mechanical Engineering) ...............................Leominster, Mass.
DEGREES CONFERRED

Belford Ashton Perkins (in Mechanical Engineering) . . . . North Brooksviile
Wallace Winfield Perkins (in Electrical Engineering) .............. Bluehill
Horace Waterhouse Raymond (in Mechanical Engineering) . . . . North Jay
William Christie Riecker (in Chemical Engineering) .............. Portland
Harold Dean Sargent (in Electrical Engineering) ................. Patten
George Eldon Saunders (in Electrical Engineering) ............... Townsend, Mass.
Warren Albert Sayward (in Mechanical Engineering) .............. Alfred
Stanley Merrill Schultz (in Electrical Engineering) ............... Lisbon Falls
Chester Maxim Sinnett (in Electrical Engineering) ............... Bailey Island
George Lincoln Skolfield (in Electrical Engineering) .......... Hampden Highlands
John Theodore Skolfield (in Mechanical Engineering) .......... Brunswick
Fred Emery Smith (in Chemical Engineering) .................. Westbrook
Theron Alonzo Sparrow (in Mechanical Engineering) .......... Hampden Highlands
Walter Gregory Sullivan (in Electrical Engineering) ......... Old Town
Stanton LaForest Swett (in Mechanical Engineering) .......... Mexico
Theodore Joseph Tourangeau (in Civil Engineering) .......... Westbrook
John Lawrence Townsend (in Mechanical Engineering) .... South Portland
Harvey Richard Trask (in Mechanical Engineering) .......... Randolph
Arthur Reed Urann (in Electrical Engineering) ................ Ellsworth
Frank Raymond West (in Electrical Engineering) ............... Old Town
Guy Sterling Westcott (in Electrical Engineering) ............. Sebago Lake
Lewis Henry White (in Civil Engineering) ....................... Wayne
Charles Albert Whitten (in Civil Engineering) ................. New Portland
Hugh Otis Whitten (in Civil Engineering) ................. Farmingdale
Arthur Osgood Willey (in Mechanical Engineering) ........ Gardiner
Philip Edgar Woods (in Civil Engineering) .................. Kittery

Degrees Out of Course

BACHELOR OF SCIENCE
William Hammond Merrill (in Electrical Engineering) . . Van Wert, Ohio
(As of Class of 1913)

Advanced Degrees

MASTER OF ARTS

IN BIOLOGY
Eva Elizabeth Jones (B.A., Radcliffe, 1920) ................. Orono

IN ENGLISH
Marion Katharyn Bragg (B.A., Maine, 1921) ................. Orono
Margaret Catherine Mullen (B.A., Trinity, 1922) .......... Bangor
Augusta Genevieve Violette (B.A., Maine, 1921) ........ Milford
Master of Arts in Education

Hoyt Davis Foster (B.Pd., Maine, 1916) ............................................... Orono

Master of Science

in Biology

Walter Wentworth Wiggin (B.S., New Hampshire, 1921) .............. Orono

in Chemistry

Walter William Purdy (B.S., Akron, 1919) ........................................... Orono
Tao-Yuan Tang (B.S., Wisconsin, 1923) ............................................. Bangor

in Chemical Engineering

Pei-Yeung Chan (B.S., M.I.T., 1923) .................................................. Orono
Leslie George Jenness (B.S., New Hampshire, 1920) ....................... Orono
Pao Chen Liu (B.S., Rensselaer, 1923) .............................................. Orono
Jagat Ram Sethi (B.S., Case, 1923) ................................................... Orono

Chemical Engineer

Roger Benson Hill (B.S., 1918) ..................................................... Berlin, N. H.

Civil Engineer

Harry Foster Lincoln (B.S., 1888) ................................................. Fond du Lac, Minn.

Certificate

in the School Course in Agriculture

Ray Chester Ames................................................................. Abbot Village
Merton Shaw Curtis.............................................................. Paris
Mansell Rowe Garland.......................................................... Ellsworth
Charles Henry Hammond...................................................... South Paris
Leo Forest Martin................................................................. Old Town
Harry Alden Mayo............................................................... Strong
The following received commissions as Second Lieutenants of Infantry, Officers' Reserve Corps

Charles Louis Beckett
Leonard Jellison Bragdon
Bruce Ira Davenport
John March Francis Donovan, Jr.
Arthur Fessenden Eastman
Guy Eben Griffin
Bentley Staples Hutchins
Irving Barstow Kelley
Joseph Frederick Kolouch
Roger Daniel Mackay
Leslie Gordon McGary
Julian Haskell Merrill, Jr.
Paul Morris Morrill
William Wesley Patterson
John Alvin Small
Frederic Arnott Soderberg
Stanton LaForest Swett
Philip Hector Taylor
Arthur Osgood Willey

Honorary Degrees

Edward Robie Berry, Doctor of Science
Francis Gano Benedict, Doctor of Science
George Bucknam Dorr, Master of Science
Ralph Dorn Hetzel, Doctor of Laws
Hilda Libby Ives, Master of Arts
Hugh Kelsea Moore, Doctor of Science
Catalog of Students


GRADUATE STUDENTS

Anderson, Carl Alfred, B.S., Ed.
Maine, 1919
East Bridgewater, Mass.
43 Main Street

Bailey, Marcia Edgerton, B.A., Eh.
Oberlin, 1915
Orono
35 Oak Street

Beale, Frank Swan, B.S., M.S., Ms.
Maine, 1921, 1923
Orono
33 Peters Street

Bean, Achsa Mabel, B.A., Bl.
Maine, 1922
Detroit
105 Main Street

Bellaty, Helene Bernice, B.A., Ed.
Colby, 1909
Ellsworth
Balentine Hall

Bird, Madeline, B.A., Py.
Maine, 1921
Rockland
Balentine Hall

Minnesota, 1922
Minneapolis, Minn.
33 Bennoch Street

Braun, Helen Evelyn, B.A., Py.
Hunter
New York, N. Y.
Balentine Hall

Brown, Alward Embury, B.A., B.S.E., Ps.
Albion, 1919; Michigan, 1921
Orono
38 North Main Street

Pryant, George Fred Lull, B.S., Ed.
Colby, 1917
Limestone
Limestone

Runker, Mary Carolyn, B.A., Bl.
Maine, 1922
Bangor
145 Union Street, Bangor

Clark, Alice Helen, B.A., Eh.
Colby, 1921
Caratunk
Balentine Hall
Cloudman, Arthur Mosher, B.S., Bl.
Maine, 1924
Saco
149 Main Street

Cutler, Alexander Braun, B.S., Ch.Eng.
Maine, 1923
Old Town

Davis, Rose Mary, B.S., Eh.
Columbia, 1922
Brewer
University Inn

Dennett, Winburn Albert, B.S., Ed.
Maine, 1918
Hopedale, Mass.
Oak Hall

Durling, Grace Margaret, B.S., Ed.
Temple, 1917
Stockton, N. J.
University Inn

Engstrom, Howard Theodore, B.Ch.E.,
Ms.
Northeastern, 1922
Orono
36 College Road

Eurich, Alvin Christian, B.A., Ed.
Northwestern College, 1924
Orono
36 Myrtle Street

Flewelling, Howard Lloyd, B.A., Eh.
Dartmouth, 1921
Orono
370 College Road

Follansbee, Helen Lincoln, Ph.B., Arts
Boston University, 1900
Gloucester, Mass.
Balentine Hall

Ginsberg, Belle Grace, B.A., Lt.
Hunter, 1915
New York, N. Y.
Balentine Hall

Gómez-Durán, Eduardo, Ph.B., B.A.,
Sp.
Colegio del Rosario (Colombia) 1910;
Valparaiso, 1922
Orono
University Inn

Gooch, Marjorie Eunice, B.S., M.S., Bl.
Maine, 1919, 1922
Orono
36 College Road

Gould, Sherman Jewett, B.S., Ps.
Bates, 1916
Farmington
Mill Street

Griffin, Guy Eben, B.S., Bv.
Maine, 1924
Old Town
180 Main Street

Hadlock, Edwin Harold, B.A., Ms.
Maine, 1924
Orono
38 Oak Street

Hall, Howe Wiggin, B.S., An.
Maine, 1914
Orono
53 North Main Street

Hall, Stanley Gilbert, B.S., Me.
Maine, 1923
Eangor
782 Hammond Street, Bangor

Harriman, Philip Ainslie, B.A., Bl.
Maine, 1924
Melrose Highlands, Mass.
Σ N House

Hayes, Roy Mitchell, B.A., Ed.
Colby, 1918
Washburn
Washburn

Hitchings, Barbara Gertrude, B.A., Bl.
Maine, 1924
Caribou
Balentine Hall

Hotson, Clarence Paul, B.S., M.A., Lt.
Cornell, 1921; Harvard, 1923
Orono
Mill Street
Jenness, Lyle Clayton, B.S., Ms.  
New Hampshire, 1922  

Johnson, Beatrice Winnifred, B.A., Bl.  
Maine, 1924  

Jones, Eva Elizabeth, B.A., M.A., Bl.  
Radcliffe, 1921; Maine, 1924  

Keating, Anna Josephine, B.A., Fr.  
Maine, 1921  

Keegan, Sister Mary Eucharia, B.S.E., Fr.  
Saint Joseph’s, 1919  

Lineken, Edgar Elwyn, B.S., Ch.  
Maine, 1923  

McGraw, Earl Cranston, B.A., Ed.  
Maine, 1922  

Merchant, Iva Angerona, B.S., Bl.  
Maine, 1923  

Meserve, Wilbur Ernest, B.S., Ps.  
Maine, 1923  

Miller, Harvey Daniel, B.A., Eh.  
Bowdoin, 1917  

Morse, Frank Leander Staples, B.A., Ed.  
Maine, 1922  

Murphy, Sister Mary Eulalia, B.S.E., Ed.  
Saint Joseph’s, 1919  

Murray, William Smith, B.A., Bl.  
Maine, 1921  

Nakane, Shigeo, B.S., M.S., Ch.  
Bowdoin, 1922; Chicago, 1923  

Nevens, Joy Leavitt, B.A., Eh.  
Maine, 1924  

Nichols, James Albert, Jr., B.A., Eh.  
Maine, 1924  

Northrup, Christine Adelia, B.A., Ed.  
Maine, 1919  

Osgood, Earl Pike, B.S., An.  
Maine, 1924  

Perkins, Pauline, B.A., Ch.  
Wellesley, 1920  

Peterson, Bernese Loretta, B.A., M.A., Orono  
Kansas, 1909, 1914  

Orono  73 North Main Street  
Portland  32 Mill Street  
Orono  Balentine Hall  
Camden  Balentine Hall  
Orono  St. Mary’s Convent  
Thomaston  Φ Κ Σ House  
Hampden Highlands  Hampden Highlands  
Walnut Hill  25 Myrtle Street  
Orono  25 Myrtle Street  
Bangor  33 Bennoch Street  
Rockland  Rockland  
Bangor  St. Mary’s Convent  
Hampden Highlands  123 Main Street  
Tokio, Japan  Tokio, Japan  
Woodfords  166 College Road  
Bangor  85 Cumberland Street, Bangor  
Palermo  Balentine Hall  
Fryeburg  Dairy  
Cornish  University Inn  
Orono  106 North Main Street
SENIORS

Plummer, Bernie Elliott, Jr., B.S., An.
Maine, 1924

Reiche, Howard Charles, B.A., Bl.
Maine, 1924

Rex, Millicent Barton, B.A., Ed.
Wellesley, 1924

Richards, Irving Trefethen, B.A., Eh.
Bowdoin, 1920

Ring, Elizabeth, B.A., Hy.
Maine, 1923

Rose, Mabel Harris, B.A., Arts
Smith, 1897

Salley, Florence Ulmer, B.A., Eh.
Maine, 1921

Shibles, Lester Hale, B.A., Es.
Colby, 1915

Steward, Raymond Benson, B.S., Ed.
Maine, 1917

Stuart, Erwin, B.A., Ed.
Maine, 1923

Sturtevant, Arthur Leroy, B.S., Arts
Maine, 1912

Thompson, Herbert Lewis, B.Ch.E.,
Ch. Eng.
Northeastern, 1923

Twitchell, Doris Frances, B.A., Bl.
Maine, 1923

Watson, Harry Dexter, B.S., Me.
Maine, 1918

Wentworth, Helen Bernice, B.A., Eh.
Maine, 1924

Weymouth, Albert Edward, B.A., Fr.
Maine, 1923

Williams, 1921; Harvard, 1922

Weld U. of M. Boarding House
Portland B Ω Π House
Reading, Penna. Reading, Penna.
Orono 106½ North Main Street
Orono 5 Summer Street
Houlton 115 Main Street
Bangor Balentine Hall
Orono 82 Main Street
East New Portland Oak Hall
Monson Oak Hall
Brownville Junction Hannibal Hamlin Hall
Norwood, Mass. Oak Hall
Old Town Old Town
Orono 169 Main Street
Bangor Bangor
Old Town Old Town

SENIORS

Abbott, Floyd Nelson, Es.
Albion
A T Ω House

Andrews, Egbert Morrill, Bl.
Gray
Σ N House

Aronson, Eli, Me.
Hartford, Conn.
95 Mill Street

Ashley, Anna Jorgenson, Eh.
Orono
47 Mill Street

Atkins, Katherine Emily, Hy.
Bangor
Balentine Hall
Bailey, Irving Stanley, Ed.
Bailey, Margery Evelyn, Ps.
Baker, Chester Addison, Ee.
Bean, Hervey Selden, An.
Behringer, John Stephen, Sp.
Berce, Hudson Carlton, Ag.
Berry, Perley Lee, Fy.
Besse, Arlene Day, Sp.
Blair, James Tweedie, Ag.
Blake, Ralph Scott, Ch.
Bowden, Mervin Ives, Dh.
Boyden, James Parker, Jr., Es.
Brackett, Madalene, Ms.
Bragg, Herbert Edward, Ee.
Brookes, George Savage, Eh.

Brown, Edna Elizabeth, Ms.
Brown, Mildred Greeley, He.
Bryant, Hortense Genevieve, Lt.
Burbank, Charles Payson, Ht.
Burton, Raymond Harold, Bl.

Cambell, Charles Osborne, Fy.
Cambell, Chester Wendell, Ce.
Candage, Harry Wells, Ms.
Chalmers, Lindsay Billings, Es.
Chandler, John Winthrop, Ce.
Chase, George Davis, Jr., Ch.A.
Clark, Lewis Bates, Es.
Clarke, Catherine Louise, Eh.
Clements, Norris Charles, Ht.
Coburn, Aura Eugene, Es.
Comins, Rubena Isabella, Lt.
Conant, Charles Tyler, Dh.
Connor, Lawrence Coney, Bl.
Coughlin, Madeline Elizabeth, Lt.
Crowley, Fred Joseph, Me.
Cutts, Cecil Jewett, Ms.
Cyphers, Kenneth Leigh, B.S., Ce.
Maine, 1924

Danforth, Clarence Pierpont, Ped.
Davis, James Elton, Fy.

Waldoboro  Φ Γ Δ House
Dexter  Balentine Hall
Gorham  412 H. H. Hall
Vienna  207 H. H. Hall
Elmhurst, N. Y.  407 H. H. Hall
Caribou  21 Mill Street
Rumford  410 H. H. Hall
Albion  Mt. Vernon House
Old Orchard  Α Τ Δ House
Houlton  Σ Χ House
Bluehill  Α Γ Ρ House
Brookline, Mass.  Α Τ Ω House
Milo  Mt. Vernon House
Bangor  Φ Μ Δ House
Ellsworth  

Bangor Theological Seminary, Bangor

Bangor  Balentine Hall
Readfield Depot  Practice House
Portland  Mt. Vernon House
Yarmouth  B Θ Π House
Portland  Σ N House

Gray  Φ H K House
Gray  Φ H K House
Orono  119 Mill Street
Albion  Σ X House
Newcastle  Σ X House
Orono  143 Main Street
Rockland  25 Grove Street
Pemaquid  Balentine Hall
Winterport  Σ Φ Σ House
Dover-Foxcroft  Δ Τ Δ House
Brewer  Brewer
Winterport  312 H. H. Hall
Bangor  Κ Σ House
Brewer  Brewer
Biddeford  7 Pleasant Street
Portland  Φ Η K House
Dexter  201 H. H. Hall

Castine  32 Pierce Street
North Conway, N. H.
Dawson, Leroy Lendon, Fy.
Dawson, Richard Crawford, Ch. Eng.
Dean, Elwin Linwood, Es.
Dole, Francis Stone, Ch.
Doughty, Randall Hubert, Ch. Eng.
Douglas, Helene Elizabeth, Eh.
Dow, Doris Belle, He.
Downing, John Philip, Ht.
Dressel, Donald Burton, Fy.
Dunton, James William, Ms.

Eastman, Carl Burleigh, Me.
Edwards, Frank Blodgett, Fy.
Elliott, Wilmer Rogers, Dh.
English, Benjamin Worth, Me.
Erskine, Paul Franklin, Me.
Everett, Vaughn Beveridge, Ce.

Farrar, Frances Sarah, Ms.
Field, Vena Bernadette, Eh.
Fifield, Doris Frances, Es.
Fitzhenry, Raymond Chester, Fy.
Fletcher, Mary Eva, Bl.

Fogg, Madeleine, Fr.
Frazier, Harry John, Es.
French, Fred Cyrus, Me.
Friedman, Leo, Ch. Eng.
Fuller, Annie Myrtle, Hy.

Gallison, Kathleen Elizabeth, Bl.
Gay, Thomas Edward, Ed.
Gerrish, Harold Lewis, Ee.
Goldsmith, Isador Keith, Es.
Gorden, Rachel, He.
Gott, Albert Richard, Me.
Greenlaw, Helen Elaine, Sp.
Gregory, Augustus Philip, Ch.A.
Grifffiths, Eugene Benjamin, Bl.
Gruhn, George Herman, Fy.

Hanington, Edith Mills, Eh.
Hanley, Margaret Leonard, Sp.
Hardy, Oral Alton, Ht.
Haskell, Ernest Edward, Eh.
Haskell, Robert Nelson, Ee.

Hastings, Donald Francis, Ee.
Higgins, Milton Ermond, Ed.

Hill, Alice Rider, Hy.
Hilton, Walter Gethell, Me.
Hobson, Ralph William, Dh.
Hodgdon, Fernald, Ag.
Holbrook, Alfred Leroy, Dh.
Houghton, Amory McLellan, Jr., Fy.
Humphrey, Orman Julian, Ce.
Hussey, Frank Washburn, Ag.
Hutchins, Bentley Staples, Fy.
Hutton, John Charles, Ed.
Hyde, Stanley Berry, Ce.

Irish, Clifford Virgil, Ee.

Jacobs, David Clement, Hy.
James, Ruel Leroy, Ee.
Jeffery, David Mitchell, Ee.
Johnson, Charles Edgar, Eh.
Johnson, Melville Hunnewell, Ms.
Jones, Albert Eugene, Ee.
Jordan, Wilson Rodell, Ch. Eng.

Kaakinen, Aaro, Fy.
Kelleher, George Francis, Fy.

Ladd, Harland Augustine, Ms.
Lambert, William Burnham, Ch. Eng.
LaPlant, John Ervin, Ht.
Lawler, Elizabeth, Sp.

Lawry, John Ansel, Me.
Leighton, Cecil Victor, Ee.
Lejonhud, Carl August, Me.
Libby, Alice Maude, Eh.
Libby, Carl Freeman, Me.
Lincoln, Frank Louis, Ce.
Lineken, Elizabeth Marietta, He.
Linekin, Maynard George, Fy.
Linscott, Paul Harding, Bl.
Littlefield, Walter Arnold, Es.

Morrill
60 Park Street

Bangor
645 Hammond Street, Bangor

Rockland K Σ House
Bar Harbor Stillwater
Orono 391 College Road
Norridgewock 306 H. H. Hall
Portland A Γ P House
Millinocket A T Ω House
North Anson 24 Mill Street
Bath A T Ω House
Bangor Φ Η Κ House
Presque Isle Φ Η Κ House
Bangor Σ N House
Brunswick Φ Η Κ House
Saco K Σ House

Gorham 201 H. H. Hall

Rockland Σ N House
Princeton 6 Myrtle Street
Orono 11 Beech Street
Brownville Σ N House
Orono Park Street
Brighton, Mass. K Σ House
Waltham 402 H. H. Hall

Fitchburg, Mass. College Road
Ware, Mass. 10 Summer Street

Dover-Foxcroft Α T Δ House
Breuer Φ Μ Δ House
Gardiner Α Γ P House

Southwest Harbor

Mt. Vernon House
Fairfield B Θ Π House
Woodland 382 College Avenue
South Portland Φ Μ Δ House
Vinalhaven Balentine Hall
Biddeford Σ Δ E House
Houlton Θ Χ House
Thomaston Practice House
Tomaston Σ Δ E House
Brownfield Β Θ Π House
Orono 188 Main Street
SENIORS

Loomis, Mary Elizabeth, Eh.
Lunge, Raymond Frank, Ed.
Lunt, Annie Pearl, Eh.
Lynch, Arline Frances, Lt.
McCobb, John Lombard, Ce.
McCobb, Robert Hastings, Ms.
MacDonald, William Rogers, Jr., Ee.
MacDougall, Julia Douglass, He.
McPhetres, Madeline Marie, Ms.
Macdonald, Harry Eugene, Bl.
Mahaney, Edrie Hortense, Es.
Mahoney, Kathleen Anne, Eh.
Mahoney, Nan Louise, He.
Mangan, John William, Me.
Martin, Anna Elizabeth, Hy.
May, Marie Etta, Eh.
Milan, Eleanor Mary, He.
Modery, Harold Kenneth, Ce.
Moody, Charles Frederick, Fy.
Morrison, Robert Wentworth, Ce.
Mossler, Dorothy Edwina, Ms.
Mulligan, James Edward, Ee.
Mullin, LeRoy Allen, Ee.
Murray, Joseph Magee, Bl.
Muzzey, George Aldrich, Ms.
Norwood, Hope, He.
O'Connor, Michael Henry, Ms.
Osborne, Elwood Noyes, Ce.
Osborne, Mildred Eleanor, Lt.
Packard, Mansfield Morton, Ee.
Page, Harriet Evangeline, Hy.
Parmenter, Arthur Neal, Fy.
Parsons, Frederick Henry, Es.
Patten, Clyde Gowell, Es.
Peabody, Elizabeth Tracy, Hy.
Pendleton, Arthur Norman, Ht.
Pendleton, Elizabeth Estelle, Eh.
Penley, Donald Watson, Ms.
Perkins, Frances Elizabeth, He.
Perkins, Henry Girard, Me.

Yalesville, Conn.  Balentine Hall
Kennebunk  Σ N House
Cherryfield  23 Park Street
Brewer  Brewer

Orono  5 Summer Street
Lincolnville Center  Α Τ Ω House
South Portland  Σ Φ Σ House
Milo  Practice House
Sangerville  Campus
Bangor  259 State Street, Bangor
Bangor  257 Center Street Bangor
Biddeford  Balentine Hall
Caribou  Practice House
Pittsfield, Mass.  203 H. H. Hall
Biddeford  Balentine Hall
Biddeford  Balentine Hall

133 Second Street, Bangor
Orono  87 Park Street
Saco  K Σ House
Bangor  25 Grove Street
South Brewer  Balentine Hall
Damariscotta Mills  205 Oak Hall
Cape Elizabeth  305 H. H. Hall
Hampden Highlands  Φ Γ Δ House
South Berwick  College Road

Southwest Harbor  Practice House

Biddeford  209 H. H. Hall
Fairfield  206 H. H. Hall
Bangor  Balentine Hall

Bryant Pond  23 Pond Street
Orono  37 Middle Street
Brockton, Mass.  Σ Α Ε House
Franklin Park, Mass.  Δ Τ Δ House
Topsham  Φ Η Κ House
Portland  Mt. Vernon House
Dark Harbor  Φ Κ Σ House
Bangor  Balentine Hall
Dexter  Σ Φ Σ House
Machias  Practice House
West Brooksville  College Road
Phipps, Carl Leonard, Fy.
Pickard, Morita Jessie, Fr.
Pierce, Alberta Getchell, Gm.
Pike, Robert Smith, An.
Pillsbury, Dan Abner, Dh.
Porter, Frances Hope, Eh.
Powell, Donald William, Ce.
Pressey, Harold Elbert, Py.
Quincy, Sara Louise, He.
Rafferty, Robert William, Es.
Reed, Leona Kathleen, Eh.
Reed, Reginald Lee, Ce.
Repscha, Albert Henry, Me.
Ridlon, Ernest Starr, Me.
Ridlon, Hilton Joseph, Ch. Eng.
Ring, Carl Edwin, Me.
Roberts, Philip Carroll, Ch.A.
Robinson, Frank Lawrence, Ee.
Rogers, Howard LaForrest, Ce.
Sanborn, Doris May, Fr.
Savage, Hoyt Bernard, Fy.
Scannell, Walter Daniel, Ce.
Schwartz, Nathan James, Es.
Sennett, Lincoln Asher, Ms.
Sewall, Rufus Shirley, Fy.
Shepherd, Francis Greenwood, Ee.
Sherman, Owen Frederick, Ed.
Silverman, Herman Samuel, Ms.
Small, Henry Dyer, Ms.
Smart, Edgar Solomon, Fy.
Smart, Stanislaus Joseph, Ee.

Gorham, N. H.  K Σ House
Bangor
128 Somerset Street, Bangor
Orono 24 Oak Street
Cornish Δ Γ Π House
Rangeley Σ Δ Ε House
Oroco 67 North Main Street
Orono 75 Forest Avenue
Bangor Φ Κ Σ House

Bridgton Practice House

Willimantic, Conn. 110 H. H. Hall
Owl’s Head Mt. Vernon House
Portland Θ X House
Derby Θ X House
Cape Porpoise Φ Γ Δ House
Kezar Falls 24 Mill Street
Bangor A Τ Ω House
Portland 2 Bennoch Street
Princeton A T Δ House
Greenville Σ Δ E House

Old Town Old Town
Milo Θ X House

Portland 16 Pine Street
Albion Σ Φ Σ House
Wiscasset 312 H. H. Hall
Gloucester, Mass. Σ Φ Σ House
Randolph Δ T Δ House
Portland 111 Oak Hall
Brewer Σ X House
Winthrop 303 Oak Hall

Port-aux-Basques, New- 32 Peters Street
foundland

Mexico A X Δ House
Haverhill, Mass. Φ K Σ House
Vinalhaven 301 Oak Hall
Atkinson 312 Oak Hall
Bangor K Σ House
Sanford Β Θ Π House
Hebron Σ N House
Swampscott, Mass. K Σ House
Stowell, Hubert Kirke, Fy.
Sullivan, Daniel Lawrence, Fy.

Thornton, Prescott Ervin, Dh.
Thurston, Annie Belle, He.
Tozier, Claude Hill, Es.
Tracy, Clayton Allan, Ce.
Trecartin, William Burdell, Ee.
Trouant, Donald Lynn, Ms.
Turner, Alden Herbert, Es.
Twombly, Earle Cecil, Ms.
Tyndall, Balfour Sterling, Bl.

Walker, Lynnette Agnes, Eh.
Wallace, Mary Elizabeth, He.
Ward, Margaret Rose, Eh.
Ware, Arelene Jackson, Lt.
Waterhouse, Mary, He.
Whiteside, Osmond Steen, Es.
Whitney, Sprague Rufus, Fy.
Whittier, Philip Page, Es.
Winter, Harold Lewie, Fy.
Woodard, Pearl Ruby, Sp.

York, George Oscar, Fy.
Zysman, Sol Dale, Hy.

Dixfield
Reading, Mass. 10 Summer Street

Springfield
South Union
Albion
Orono
Orono
Augusta
Topsham
Newburyport, Mass.
Portland

Oro
38 Penobscot Street
Oro
Stillwater Avenue
Berlin, N. H.
Brewer
Biddeford
Bangor 224 Essex Street, Bangor
Orono 2 Bennoch Street
Bangor 71 Grant Street, Bangor
Livermore Falls
Greenville Junction

Old Town
Brooklyn, N. Y.

JUNIORS

Adams, Rose Mary, Fr.
Allen, William Mayo, Es.
Andrews, Edith Alice, Hy.
Andrews, John Southard, Ch.
Ascher, John Philip, Ch. Eng.
Atwood, Paul Elliott, Fy.

Babb, Myron Francis, Bl.
Bailey, William Leonard, Ce.
Baker, Gerald Franklyn, Fy.
Ballou, Harold Lewis, Ed.
Barker, Elliott Eveleigh, Bl.
Barker, Kenneth Watson, Bl.
Barrows, Willis Manning, Ee.

Rockland
Portland
Canton
Gray
Westbrook
Bangor

New Sharon
Malden, Mass.
Bangor
Greenfield, Mass.
Bridgewater
Dover-Foxcroft

Balentine Hall
θ X House
Balentine Hall
Φ M Δ House
38 Oak Street
K Σ House

25 Grove Street
26 Grove Street
25 Grove Street
Δ T Δ House
Σ Α Ε House
Bartlett, Edmund Hobart, Es.
Baston, Chester Edwin, Ee.
Baxter, Charles Leslie, Ce.
Beal, Edith Annette, Fr.
Beedle, Llewellyn Woodward, Hy.
Bennett, Dorice, Fr.
Bennett, Ralph Richard, Ms.
Berrie, Lloyd Harvey, Es.
Billings, Maurice Preston, Ee.
Bischoff, Carl Henry, Ce.
Boothby, Margaret Foster, He.
Boston, Albro Roswell, Me.
Bouchard, Frederic James, Ch.A.
Boucher, Clement Wendell, Ed.
Bowden, Hervey Francis, Hy.
Bragdon, George Alec, Ms.
Brennick, Hudson Lawrence, Es.
Brewer, Frances Hazel, Lt.
Brewster, Arthur Wells, Es.
Bridgham, Edward Theodore, Me.
Brown, Joseph Sumner, Ch.
Bryant, Vernon Carlton, Es.
Buck, Laurence Lyman, Ee.
Bunton, Walter Joseph, Es.
Burnham, Allen, Bl.
Burk, Maurice Holyoke, Fy.
Buzzell, Francis Guernsey, An.

Cahill, George Albion, Jr., Me.
Carr, Philip Floyd Joseph, Es.

Chandler, Frederick Barker, Ht.
Chaplin, Kera Joan, Ms.
Chapman, Kenneth Cayford, Ee.
Chase, Ezekiel Leith, Ce.
Cheney, Irvill Harry, Bl.
Clement, Bernice Wiona, Lt.
Cohen, Ada, Ms.
Coleman, Sidney Bowers, Ee.
Collins, Charles Sidney, Ms.
Creamer, Ansel Samuel, Ch. Eng.

Orono 148 College Road
East Millinocket 205 H. H. Hall
Rockland, Mass. Σ N House
Bangor Balentine Hall
Calais Mt. Vernon House
Sargentville 312 H. H. Hall
Sanford Balentine Hall
Lancaster, N. H. Θ X House
Houlton Σ X House
Southwest Harbor Bennoch Street
Franklin, Mass. 25 Grove Street
Dover-Foxcroft A X A House
Gorham Balentine Hall
Haverhill, Mass. Σ Φ Σ House
Millinocket Θ X House
Groveton, N. H. 7 Pleasant Street
Orono 4 Peters Street
Atkinson Balentine Hall
Franklin 401 H. H. Hall
Rumford 110 H. H. Hall
Bar Harbor Mt. Vernon House
Brockton, Mass. A T Ω House
Brewer Brewer
Wenham, Mass. Σ Φ Σ House
Lincoln Φ Γ Δ House
Stillwater Stillwater
Livermore Falls Σ N House
Wiscasset 407 H. H. Hall
Old Town Σ Α E House
Fryeburg A Γ P House

Bath Σ Α E House
West Springfield, Mass. College Road
Machias A T Ω House
Cornish Balentine Hall
Athens 23 Park Street
Brownville Σ Α E House
Brunswick 25 Grove Street
North Jay Balentine Hall
Bangor 50 East Summer Street, Bangor

Saco College Road
Portland A X Α House
Nobleboro M. C. A. Building
Crozier, Harold Eugene, Ed.
Curran, Lawrence Edward, Fy.
Curren, Levi Addison, Bl.
Cutting, Wallace Austin, Ee.
Cyr, Edgar Ralph, Ce.

Dakim, Leone Mae, He.
Dempsey, Philip Francis, Ed.
Deraney, Fred Hanna, Bl.
Diehl, Richard Burton, Fy.
Doherty, Joseph Daniel, Ch. Eng.
Donovan, Douglas Edward, Es.
Dougherty, Joseph Roy, Fr.

Dowd, Clarence Michael, Fy.
Dufour, John Leo, Ag.
Dunlap, Louis Alfred, Ht.
Dunning, Wilhelmina Frances, Bl.
Durgan, George Arthur, Me.
Durrell, John Robert, Es.
Dwelley, Linwood Lyle, Fy.
Dyke, Howard Hamlin, Es.

Eaton, Henry Boardman, Fy.
Eaton, Marion Charlotte, Lt.
Edwards, Fred Blodgett, Es.
Elliott, Wallace Henry, Ag.
Emery, Cora Ellen, Ch.A.
Emery, Harlan Julien, An.

Farquhar, John Dick, Ce.
Field, Kenneth, Es.
Finley, Raymond Stevens, Ed.
Fletcher, Carlton Wentworth, Ee.
Foster, John Henry, Jr., Ed.
Fouts, Edward Lee, Bl.
Fraser, Margaret Mary, Lt.
Fraser, Oren Foss, Ag.

Gero, Charles Edward, Ch. Eng.
Getchell, Williams Bassett, Ce.
Giddings, Spofford, Ch. Eng.
Ginsberg, Samuel Fine, Es.
Goff, Lester Vernon, An.
Gonver, Edmund Eugene, Fr.

Brownville  Σ Δ Ε House
Oxford  College Road
Millinocket  Σ Δ Ε House
Andover  Φ Η Κ House
Waterville  Σ Ξ House

Brookton  60 Forest Avenue
Houlton  Θ Ξ House
Portland  210 H. H. Hall
New Britain, Conn.  303 Oak Hall
Bangor  55 Maple Street, Bangor
Turners Falls, Mass.  Θ Ξ House

Bangor  39 Pleasant View Street, Bangor

Worcester, Mass.  Σ Φ Σ House
Madawaska  Α Τ Ω House
South Portland  Σ Ξ House
Topsham  Balentine Hall
Lubec  25 Grove Street
Stratton  Σ Ν House
Princeton  Κ Σ House
Livermore Falls  Σ Ξ House

Calais  Φ Γ Δ House
Winterport  68 Main Street
Gorham, N. H.  Κ Σ House
Presque Isle  207 H. H. Hall
Bar Harbor  Balentine Hall
Salisbury Cove  Σ Ν House

Gilbertville, Mass.  48 Pine Street
Auburn  111 H. H. Hall
Augusta  Κ Σ House
Bangor  714 Main Street, Bangor
Portland  Σ Ξ House
Washington, D. C.  Σ Ν House
Berlin, N. H.  Balentine Hall
Kennebunk  Σ Α Ε House

Waterville  Κ Σ House
Augusta  B Θ Π House
Augusta  B Θ Π House
Old Town  Old Town
Hollis Center  Campus
Orono  17 Middle Street
<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graffam, Pearl Roberts, Eh.</td>
<td>Bangor</td>
<td>Balentine Hall</td>
</tr>
<tr>
<td>Guernsey, Thompson Lyford, Es.</td>
<td>Dover-Foxcroft</td>
<td>Φ Κ Σ House</td>
</tr>
<tr>
<td>Hackett, Carleton Henry, Ed.</td>
<td>Brewer</td>
<td>Κ Σ House</td>
</tr>
<tr>
<td>Hale, Edward Rice, Ed.</td>
<td>Castine</td>
<td>College Road</td>
</tr>
<tr>
<td>Ham, Cecile Elizabeth, Bl.</td>
<td>Houlton</td>
<td>Balentine Hall</td>
</tr>
<tr>
<td>Hamer, Harry Northin, Fy.</td>
<td>Methuen, Mass.</td>
<td>Σ N House</td>
</tr>
<tr>
<td>Hamilton, J. Murray, Es.</td>
<td>Atlantic, Mass.</td>
<td>Δ T Δ House</td>
</tr>
<tr>
<td>Hamlet, Robert Crosby, Fr.</td>
<td>Bowdoinham</td>
<td>B Θ Π House</td>
</tr>
<tr>
<td>Hanmer, Alfred Welles, Jr., Ch. Eng.</td>
<td>Wethersfield, Conn.</td>
<td>Φ Κ Σ House</td>
</tr>
<tr>
<td>Harmon, Carl Milton, Hy.</td>
<td>Buxton</td>
<td>403 H. H. Hall</td>
</tr>
<tr>
<td>Hart, Clarence Eugene, Ce.</td>
<td>Orono</td>
<td>Φ Γ Δ House</td>
</tr>
<tr>
<td>Haskell, George Albert, Me.</td>
<td>Lincoln</td>
<td>410 H. H. Hall</td>
</tr>
<tr>
<td>Hayes, Allen Milliken, Bl.</td>
<td>North Berwick</td>
<td>269 State Street, Bangor</td>
</tr>
<tr>
<td>Haynes, Alice, Eh.</td>
<td>Ellsworth</td>
<td>Balentine Annex</td>
</tr>
<tr>
<td>Heistad. Trygve, Ce.</td>
<td>Rockport</td>
<td>204 H. H. Hall</td>
</tr>
<tr>
<td>Hillman, Arthur Sewall, Bl.</td>
<td>Island Falls</td>
<td>Φ Η Κ House</td>
</tr>
<tr>
<td>Holdsworth, Fred William, Fy.</td>
<td>Methuen, Mass.</td>
<td>Σ Λ Ε House</td>
</tr>
<tr>
<td>Hunt, Kathleen Joyce, Fr.</td>
<td>Portland</td>
<td>Balentine Hall</td>
</tr>
<tr>
<td>Huntley, Hugh Bentley, Ce.</td>
<td>Bangor 185 Center</td>
<td>Street, Bangor</td>
</tr>
<tr>
<td>Hurd, Mark Alma, Dh.</td>
<td>Pittsfield</td>
<td>Φ K Σ House</td>
</tr>
<tr>
<td>Hussey. Harold Albert, Ch. Eng.</td>
<td>Woolwich</td>
<td>310 Oak Hall</td>
</tr>
<tr>
<td>James, Wilson Goucher, Sp.</td>
<td>Bangor</td>
<td>Φ M Δ House</td>
</tr>
<tr>
<td>Johnson, Maurice Burton, Me.</td>
<td>Portland</td>
<td>Σ Φ Σ House</td>
</tr>
<tr>
<td>Johnson, Mervin Twitchell, Ce.</td>
<td>New Britain, Conn.</td>
<td>Φ Η Κ House</td>
</tr>
<tr>
<td>Johnson, Reginald Foss, Fy.</td>
<td>Hancock</td>
<td>Κ Σ House</td>
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<tr>
<td>Jones, Clyde Percival, Sp.</td>
<td>Bangor</td>
<td>46 Lincoln Street, Bangor</td>
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<tr>
<td>Jordan, Bryce Meredith, An.</td>
<td>Cape Elizabeth</td>
<td>Σ N House</td>
</tr>
<tr>
<td>Keen, Louis Burbank, Ce.</td>
<td>Malden, Mass.</td>
<td>Φ Γ Δ House</td>
</tr>
<tr>
<td>Kelley, Irving Barstow, Me.</td>
<td>Orono</td>
<td>Β Θ Π House</td>
</tr>
<tr>
<td>Kimball, Byron, Ed.</td>
<td>Bridgton</td>
<td>7 Pleasant Street</td>
</tr>
<tr>
<td>Kolouch, Joseph Fred, Ch. Eng.</td>
<td>New Bedford, Mass.</td>
<td>302 Oak Hall</td>
</tr>
<tr>
<td>Ladner, George Ora, Es.</td>
<td>Orono</td>
<td>Park Street</td>
</tr>
<tr>
<td>Lake, Malcolm Fred, Dh.</td>
<td>Wilton</td>
<td>Λ Χ Α House</td>
</tr>
<tr>
<td>Lamson, George Leroy, Me.</td>
<td>Bangor</td>
<td>334 Lincoln Street, Bangor</td>
</tr>
<tr>
<td>Lane, Charles Valentine, Ph.</td>
<td>Red Beach</td>
<td>Α Γ Ρ House</td>
</tr>
<tr>
<td>Larkin, Mary Loretto, Fr.</td>
<td>Washburn</td>
<td>Balentine Hall</td>
</tr>
<tr>
<td>Laughlin, Elizabeth Helen, Ms.</td>
<td>Portland</td>
<td>Mt. Vernon House</td>
</tr>
<tr>
<td>Lerette, Irene Mary, Fr.</td>
<td>Hallowell</td>
<td>Balentine Hall</td>
</tr>
</tbody>
</table>
Libby, Paul Wescott, Es.
Little, Guilbert Raymond, Ce.
Littlefield, Fred Elmer, Me.
Littlefield, George Trowbridge, Ce.
Lucas, Wesley Elmore, Es.
Lunt, Everett Manson, Ee.
McCann, Everett Francis, Hy.
McCormick, John Edward, Ed.
MacCracken, Jack Allan, Ee.
McDonald, Frank James, Ag.
McDonald, Gordon Southworth, Ce.
McFadden, Kenneth Ethelbert, Fy.
McFarland, Elmer Franklin, Ed.
McGarry, Leslie Gordon, Ce.
MacGregory, Kenneth Winslow, Eh.
Mack, Walter Corydon, Ce.
Maher, Theodore James, Ms.
Marshall, John Taylor, Fy.
Mason, John Carlton, Ed.
Mayo, Helen Natalie, Fr.
Miles, Elliott Raymond, Ee.
Mitchell, Donald Davis, Fy.
Morancy, Clarence Edward, Es.
Morrison, Frank Plaisted, Ch. Eng.
Morse, Ruth Esther, Fr.
Morse, Walter Priest, Ms.
Murch, John Arthur, Ee.
Myatt, Charles Oliver, Ch.
Nealley, Kenneth Clark, Es.
Newhall, Fred Clarke, Es.
Newton, Donald McLean, Ed.
Nichols, Leslie Crosman, Es.
Noyes, Robert Haskell, Ee.
Oliver, Velma Katherine, Lt.
Olsson, Albert Hilmer, Me.
Osgood, Beulah Elizabeth, He.
Pannoni, Anthony John, Ce.
Parkman, Ralph Rowe, Ee.
Parsons, Delmont, Ee.
Passmore, Clarence Kimball, Ee.

Gray
Portland 25 Grove Street
Brewer Φ K Σ House
Newburyport, Mass. A T Ω House
Portland Θ X House
Dover-Foxcroft Mill Street

East Millinocket 68 Pine Street
Pittston 7 Pleasant Street
Calais 310 Oak Hall
Monmouth Σ A E House
Woodfords 102 H. H. Hall
Wiscasset A Γ P House
Bath Φ Γ Α House
Bangor 209 H. H. Hall
Brockton, Mass. Δ X A House
Sanford Φ M Δ House
Bangor 59 Highland Avenue, Bangor

Portland 6 Mill Street
Island Falls Δ T Δ House
Orono Park Street
Calais Φ M Δ House
Lynn, Mass. Φ Γ Δ House
Gardiner 110 H. H. Hall
Bangor Φ Γ Δ House
Orono 356 College Road
Lexington, Mass. Δ T Δ House
Deer Isle 54 Pine Street
Dorchester, Mass. 23 Pond Street

Winterport 301 Oak Hall
Lexington, Mass. Φ Γ Δ House
Newport B Θ Π House
Lisbon Falls 15 Water Street
Orono 60 Forest Avenue

Dexter Balentine Hall
Litchfield, Conn Φ K Σ House
Orono 134 College Road

Fall River, Mass. 32 Pierce Street
Hartland 25 Grove Street
Portland Σ X House
Orrington Δ T Δ House
Patterson, Arthur Donald, Ed.
Paul, Hugh Carl, Bl.
Peabody, Arvilla Drew, Fr.
Pendleton, Emily, Fr.
Perkins, Maurice Augustus, Jr., Ee.
Pettengill, Herbert Donham, Ed.
Pike, Joseph Bennett, Fy.
Poole, Ivan Homer, Me.
Poor, Sylvester Levi, Ce.
Purinton, Bernice Irene, Hy.

Raichlen, Samuel, Es.
Ray, Theda Adelaide, He.
Rhoda, Madeleine Stimson, Lt.
Rich, Robert Pratt, Es.
Rich, William Wallace, Jr., Es.
Ringdahl, Eleanor Gertrude, Eh.
Roberts, Shirley Janet, He.
Robinson, Verner Floyd, Es.
Roche, Mary Mullen, Lt.
Rollins, Willis Rich, Ed.

Ross, Ellsworth Lincoln, Es.
Rowe, Philip Allison, Es.
Rowe, Theodore Spurling, Ps.
Royal, Thayer Levenseller, Ph.

Samways, Mary Isabel, Eh.
Sanborn, Leon Melville, Ee.
Saulsbury, Laforest Stephen, Me.
Sawyer, Herbert Hunt, Ce.
Schroeder, John Kenneth, Fy.
Scott, Ernest Burns, Ee.
Shea, Leon Hammel, Me.
Sherer, Charles Albert, Me.
Shorey, Doris Ida, Ms.
Simon, Joseph Charles, Fy.
Small, Andrew Jordan, Ed.
Small, Roger Elmer, Es.
Snow, Aubrey Hamilton, Es.
Snow, Oliver Russell, Fy.
Somers, Vernon Howe, Fy.
Spearin, Dorothy Esther, Hy.

Vinalhaven  K Σ House
Island Falls  Θ X House
Portland  Mt. Vernon House
Dark Harbor  Balentine Hall
Hallowell  Balentine Hall
Machias  Δ T Δ House
Brighton, Mass.  Δ T Δ House
Island Falls  Θ X House
Eridgton  Δ Γ P House
Vinalhaven  Φ M Δ House
Augusta  Θ X House
Bangor  45 Ohio Street, Bangor

Bangor  58 Essex Street, Bangor
Auburn  Balentine Hall
Houlton  Mt. Vernon House
Hingham, Mass.  Δ T Δ House
Hingham, Mass.  Δ T Δ House
New Sweden  Balentine Hall
Portland  Balentine Hall
Lubec  K Σ House
Portland  Balentine Hall
Bangor  76 Summer Street, Bangor

Orono  72 Penobscot Street
Standish  101 H. H. Hall
Brewer  Brewer
Augusta  Σ Φ Σ House
Newcastle  Σ X House
Gardiner  25 Grove Street
Rumford  Δ X A House
Rockland  Φ Σ House
Dover-Foxcroft  Balentine Hall
Millinocket  112 H. H. Hall
Portland  Σ X House
Brewer  Δ T Δ House
Atkinson  311 Oak Hall
North East Carry  25 Grove Street
Bangor  304 H. H. Hall
Fort Fairfield  209 Balentine Hall
JUNIORS

Standish, Myles Hodsdon, Fy.
Stanton, Edward Fuller, Ce.
Staples, Arthur Justin, Me.
Stevens, Alfred Fletcher, Ee.
Stevens, Earle Maynard, Me.
Stewart, Robert Chevalier, Bl.
Stilphen, Norman Edgar, Me.
Stover, Clyde Norton, Me.
Stuart, Clara Campbell, Fr.
Sumner, Laurence Keith, Eh.
Swett, Clyde Irving, Bl.

Tarr, James Edward, Ee.
Tate, Robert Austin, Ae.
Taylor, Harold Albert, Es.
Thompson, Esther Louise, Fr.
Thompson, George Lemar, Ps.

Thurston, Laurence Guy, Ch. Eng.
Tibbetts, Hugh Scott, Ag.
Towne, Francis Lucile, Eh.
True, William Henry, Jr., Ht.
Turner, Robert Edgar, Fy.

Uong, Diong Dick, Ch. Eng.

Walsh, Stewart Edward, Ed.

Waterhouse, Edwin Cooper, Hy.
Weatherbee, Francis Eugene, Fy.
Webber, Harold Clark, Ch.
Wheeler, Gerald Sijas, Fy.
Whitcomb, Karl Beecher, Ce.
Whitcomb, Seth Ashley, Ce.
Whitmore, Ralph Ervin, Ee.

Wilder, Carroll Frederick, Ed.
Wilkins, Austin Horatio, Fy.

Willets, Frances Mae, Eh.
Wilson, Kenneth Cony, Ht.
Wing, Gerald Everett, Fy.
Wood, Ivan Martelle, Eh.
Wood, Jessie Hammill, Ch. Eng.
Woodard, Ardis Josephine, Bl.

Wyman, Oscar Lewis, Dh.

Gardiner
Hartford, Conn.
Washburn
West Paris
East Milton, Mass.
Sanford
York Beach
Eastport
Stewen
Orono

Mapleton
East Corinth
Kumford
Bangor
Ashbury Park, N. J.

Rumford
Vanceboro
Milo
Portland
Walpole, Mass.

Bangor

31 Sidney Street, Bangor

Old Town
Lincoln
Randolph
bangor
Orono
Readfield

124 Jackson Street, Bangor

Dennysville
Hartland
Bangor
Augusta
Flagstaff
North Anson
Seymour, Conn.

Greenville Junction

Rumford

Balentine Hall

Hall
### SOPHOMORES

<table>
<thead>
<tr>
<th>Name</th>
<th>House/Street</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbott, Warren Salisbury, Ag.</td>
<td>Rumford A X A House</td>
</tr>
<tr>
<td>Adams, Amy Belle, Eh.</td>
<td>Northport Mt. Vernon House</td>
</tr>
<tr>
<td>Ames, Isabel Zilpha, Lt.</td>
<td>Bangor 122 Lincoln Street, Bangor</td>
</tr>
<tr>
<td>Anderson, John Raymond, Fy.</td>
<td>Stillwater 56 Park Street</td>
</tr>
<tr>
<td>Andrews, Ethel Maude, He.</td>
<td>Bath A X A House</td>
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<tr>
<td>Andrews, James Francis, Es.</td>
<td>Vanceboro 412 H. H. Hall</td>
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<tr>
<td>Armes, Fred Douglass, Me.</td>
<td>Portland College Hall</td>
</tr>
<tr>
<td>Arnold, Alice Elinor, Eh.</td>
<td>Sussex, N. B. Brewer</td>
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<tr>
<td>Aronson, Alvar Emanuel, Me.</td>
<td>Brewer Brewer</td>
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<tr>
<td>Atherton, Charles Russell, Ce.</td>
<td>Hillsboro, N. H. Brewer</td>
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<tr>
<td>Avery, Ralph Harriman, Es.</td>
<td>Bangor Bennoch Street</td>
</tr>
<tr>
<td>Bailey, Morton Stevens, Bl.</td>
<td>Orono 76 Main Street</td>
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<tr>
<td>Baker, Edward Hosea, Es.</td>
<td>Auburn 29 Bennoch Street</td>
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<tr>
<td>Bayard, Edward Mayo, Es.</td>
<td>Gloucester, Mass. Brewer</td>
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<tr>
<td>Beals, Stanley Bradford, Ce.</td>
<td>Boston, Mass. Brewer</td>
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<td>Bearse, Henry Madison, Bl.</td>
<td>Rumford 112 H. H. Hall</td>
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<tr>
<td>Beatty, Henry Russell, Me.</td>
<td>Bangor 30 Larkin Street, Bangor</td>
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<tr>
<td>Beeaker, Anthony Arthur, Fy.</td>
<td>Dennysville 56 Park Street</td>
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<tr>
<td>Belinian, Mary Cameron, Sp.</td>
<td>Bangor Balentine Hall</td>
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<tr>
<td>Bell, Horace Edminster, Bl.</td>
<td>Presque Isle 25 Grove Street</td>
</tr>
<tr>
<td>Benner, Helen Frances, Eh.</td>
<td>Portland 25 Grove Street</td>
</tr>
<tr>
<td>Berg, Frederick Theodore, Ee.</td>
<td>Bowdoinham Campus</td>
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<tr>
<td>Bernstein, Joseph Harry, Ee.</td>
<td>Newburyport, Mass. Brewer</td>
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<tr>
<td>Best, Alton Lewis, Fy.</td>
<td>Madison 206 Oak Hall</td>
</tr>
<tr>
<td>Bishop, Neil Sinclair, Ag.</td>
<td>Pittsfield Balentine Hall</td>
</tr>
<tr>
<td>Bixby, Thomas Perry, Fy.</td>
<td>Bowdoinham A Γ P House</td>
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<tr>
<td>Blackwell, Everett Elmer, Ce.</td>
<td>Stoncham, Mass. B Θ Π House</td>
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<td>Blanchard, Merideth Linn, He.</td>
<td>Millinocket Θ X House</td>
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<tr>
<td>Blodgett, Earle Theodore, Ag.</td>
<td>Bridgewater 119 Mill Street</td>
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<tr>
<td>Bockus, Clayton Turnbull, Ch. Eng.</td>
<td>York Village 29 Bennoch Street</td>
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<td>Bouchard, Walter Thomas, Fy.</td>
<td>Orono 10 Beech Street</td>
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<tr>
<td>Bradstreet, James Henry, Ce.</td>
<td>Staten Island, N. Y. Σ A E House</td>
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<tr>
<td>Bragdon, Kingsbury Putnam, Fy.</td>
<td>Pittsfield Φ Η K House</td>
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<tr>
<td>Bridges, Grace, Eh.</td>
<td>Portland 208 H. H. Hall</td>
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<tr>
<td>Brown, Clare Herbert, Jr., Ch. Eng.</td>
<td>Brewer Σ Φ Σ House</td>
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<td>Brown, Leroy Elmer, Ch. Eng.</td>
<td>Brewer Brewer</td>
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<td>Frowstone, David Isaac, Bl.</td>
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<tr>
<td>Bunker, Carleton Herbert, Es.</td>
<td>Brewer Brewer</td>
</tr>
</tbody>
</table>

**Location Information:**
- **Rutnford**: A X A House
- **Patten**: Balentine Hall
- **Northport**: Mt. Vernon House
- **Bangor**: 122 Lincoln Street, Bangor
- **Stillwater**: 56 Park Street
- **Lubec**: A X A House
- **Bath**: 412 H. H. Hall
- **Vanceboro**: College Road
- **Portland**: Brewer
- **Sussex, N. B.**: Brewer
- **Brewer**: Brewer
- **Hillsboro, N. H.**: Brewer
- **Bangor**: Bennoch Street
- **Orono**: 76 Main Street
- **Auburn**: 29 Bennoch Street
- **Gloucester, Mass.**: Brewer
- **Boston, Mass.**: Brewer
- **Rumford**: Brewer
- **Bangor**: 30 Larkin Street, Bangor
- **Dennysville**: 56 Park Street
- **Bangor**: Balentine Hall
- **Presque Isle**: 25 Grove Street
- **Portland**: 25 Grove Street
- **Allentown, Pa.**: Brewer
- **Bowdoinham**: Brewer
- **Newburyport, Mass.**: Brewer
- **Madison**: 206 Oak Hall
- **Pittsfield**: Balentine Hall
- **Bowdoinham**: A Γ P House
- **Stoncham, Mass.**: B Θ Π House
- **Millinocket**: Θ X House
- **Bridgewater**: 119 Mill Street
- **York Village**: 29 Bennoch Street
- **Orono**: 10 Beech Street
- **Staten Island, N. Y.**: Σ A E House
- **Pittsfield**: Φ Η K House
- **Portland**: 208 H. H. Hall
- **Brewer**: Σ Φ Σ House
Burgess, Edwin Theodore, Ce.
Burnett, Francis Edwin, Ce.
Burr, Alfred Rockwell, Bl.

Carpenter, Lewis Jacques, Ee.
Carson, Warren Paul, Ce.
Cary, George Arnold, Me.
Cassidy, William Adrian, Bl.
Cassista, Achilles Joseph, Me.
Chandler, Sanford Ballard, Fy.
Chapman, James Winslow, Ee.
Chapman, Stuart Hutchings, Me.
Clapp, Milton Herbert, Ee.

Clark, Anna Evelyn, Fr.
Clark, Richard Gilman, Ee.
Cogswell, Cyril Gray, Es.
Collins, Elizabeth Matilda, Es.
Conary, Arthur Leon, Hy.
Cooper, Marion, Hy.
Copeland, Elliott William, Ch. Eng.
Cotton, Linwood Sumner, Ce.
Couillard, Blandena Cole, Ms.
Crawford, Earle Dana, Me.
Crimmin, Kennard Stetson, Ee.
Crockett, Rosalie Miller, Sp.
Culbertson, Harry Franklin, Me.
Cyr, Gerald Arthur, Bl.

Davis, Royce Purinton, Hy.
Day, Carroll Sturtevant, Ce.
DeCoster, Carroll Roswell, Ag.
Dickson, Thomas Lyall, Fy.
Dinsmore, Dorothy, Fr.
Dinsmore, Wallace Samuel, Ch. Eng.
Dolloff, Richard Carlton, Ag.
Dooks, Earl Joseph, Es.
Douglas, Robert Livingston, Fy.
Dow, George Farrington, Ag.
Dymond, Alfred Gray, Jr., Ce.

Eastman, Robert Dunbar, Ee.
Emerson, Irene Alice, Lt.
Engel, Edward Martin, Ch. Eng.

Cornish 401 Oak Hall
Orono 192 Main Street
Brewer

Patten  Φ M Δ House
Island Falls 307 H. H. Hall
Brockton, Mass.  Φ M Δ House
Bangor 355 State Street, Bangor
Nashua, N. H.  A Τ Ω House
Auburn  Σ N House
Damariscotta  Φ H K House
Hartford, Conn.  Φ K Σ House
Bangor 95 Sanford Street, Bangor

Bangor 64 Jefferson Street, Bangor
Sanford  A X A House
Old Town  B Θ Π House
Old Town  B Θ Π House
Bangor Balentine Hall
Deer Isle 102 Oak Hall
Berlin, N. H. Mt. Vernon House
Warren 210 H. H. Hall
Cumberland Mills 411 H. H. Hall
Bangor 71 First Street, Bangor
Waterville 6 Myrtle Street
Brewer 60 Hill Street
Portland Balentine Hall
Kittery 303 H. H. Hall
Waterville  Σ X House

Lubec  Σ N House
Shirley  Φ H K House
Norway  Φ Γ Δ House
Mexico  B Θ Π House
Machias Balentine Hall
South Portland  Σ X House
Kumford  Σ X House
Orono Gilbert Street
Rumford 16 Pine Street
Wayne 408 H. H. Hall
Worcester, Mass. 119 Mill Street

Fryeburg  Φ K Σ House
Brewer Brewer
Orono  Φ K Σ House
Epstein, Nathan, Es.
Ernest, Raymond William, Fy.
Ervin, Rupert Lafayette, Bl.

Farley, Philip Edwin, Fy.
Farrington, Lucy, He.
Farrington, Marion Adelaide, He.
Farris, Evelyn Ada, Lt.
Fernald, Cornelia Rankin, Eh.
Fernald, Waldron Eaton, Hy.
Field, Kenneth Sellers, Ee.
Field, Sumner Hammond, Ee.

Ford, Eleanor Frances, Lt.
Foster, Wilbur Keith, Ce.
French, Leita Esther, Hy.
French, Lucian Taylor, Ee.
Friedman, Hilda Lee, Fr.

Farrington, Lucy, Fy.
Farrington, Marion Adelaide, He.
Farrington, Marion Adelaide, Bl.
Farrington, Marion Adelaide, Fy.
Farrington, Raymond, Es.
Farrington, William, Es.
Farrington, William, Fy.

Farrington, William, Es.
Farrington, William, Fy.
Farrington, William, Bl.
Farrington, William, He.
Farrington, William, Houlton.
Farrington, William, Orono.

Farrington, William, Es.
Farrington, William, Fy.
Farrington, William, Bl.
Farrington, William, He.
Farrington, William, Houlton.
Farrington, William, Orono.

Farrington, William, Es.
Farrington, William, Fy.
Farrington, William, Bl.
Farrington, William, He.
Farrington, William, Houlton.
Farrington, William, Orono.

Farrington, William, Es.
Farrington, William, Fy.
Farrington, William, Bl.
Farrington, William, He.
Farrington, William, Houlton.
Farrington, William, Orono.
SOPHOMORES

Hobson, Roy Clinton, Me.
Hodgins, Ardra Orina, Eh.
Hodgins, Elwin Blanchard, Ce.
Hooper, Melvin Franklin, Hy.
Howard, Henry George, Ce.
Hoyt, Edith Gertrude, Fr.
Huddilston, Rachel, Gm.
Hughes, Crystal Snowie, Ch.A.
Humphrey, Hilton, Ce.
Hutchins, Robert Johnson, Me.
Hutchinson, Calvin Morgan, Ce.

Jack, Ronald Augustus, Es.
Jacobs, George Webster, Ch. Eng.
Johnson, Arthur Emanuel, Ee.
Johnson, Edward Douglass, Ag.
Johnson, Marada Lucy, He.
Johnson, Margaret Elva, Ms.
Johnson, Roland Chester, Ee.

Kamenkovitz, Archie Edward, Es.
Kane, Kenneth Eben, Hy.
Keene, Edward Louis, Fy.
Keene, Gerald Merle, Ag.
Kehoe, George Frederick, Ch. Eng.

Kelsey, Lawrence John, Ee.
Kelso, Elmer Garfield, Fy.
Kennard, George Harrison, Fy.
Keyes, Joseph Fred, Ch. Eng.
Kirk, Florence Mae, Fr.
Knowles, Bernard Daniel, Es.
Knowles, Frank Everett, Ee.
Knox, Alfred Eugene, Ee.
Kronholm, Edgar Warren, Hy.
Kurson, Sylvia Marian, Eh.

Lamoreau, Paul Dombey, Ee.
Lane, Annette Elizabeth, Fr.
Lary, George Alfred, Fy.
Lavorgna, Michael Lawrence, Ee.
Lewis, Carl Herbert, Fy.
Lewis, Floyd Knight, Ee.
Lewis, George Boston, Ee.

Portland
Houlton
Houlton
Gloucester, Mass.
South Paris
Yonkers, N. Y.
Orono
Mapleton
Bangor
Bangor
Hallowell

Φ Η Κ House
Balentine Hall
Φ Μ Δ House
A Τ Ω House
101 H. H. Hall
Balentine Hall
193 Main Street
Balentine Hall
Σ N House
Φ Η Κ House

Pejepscot
Campello, Mass.
Caribou
Monmouth
Pittsfield
Bangor
North Berwick

32 Pierce Street
404 Oak Hall
54 Pine Street
B Θ Π House
Balentine Hall
B Θ Π House

Bangor
176 Washington Street, Bangor
Brooklin
Campus
Providence, R. I.
208 Oak Hall
Bridgton
Α Γ Ρ House
 Rutland, Mass.
Cor. Main Street & Forest Ave.

Newcastle
M. C. A. Building
Buxton
54 Pine Street
West Baldwin
310 H. H. Hall
Bucksport
205 Oak Hall
Bangor
151 Court Street, Bangor
North New Portland
K Σ House
Corinna
Φ Η Κ House
Houlton
Φ Κ Σ House
Monson
Park Street
Bar Harbor
Mt. Vernon House

Presque Isle
Calais
Old Orchard
Rumford
Old Orchard
North Berwick
North Berwick

Φ Η Κ House
Balentine Hall
Δ Τ Δ House
112 H. H. Hall
Δ Τ Δ House
Φ Μ Δ House
B Θ Π House
Lobley, Joseph Harlen, Es.
Look, Winona Retta, Eh.
Lord, Marion Elizabeth, Hy.
Lord, Whitman Porter, Es.
Lovely, Claude Gerald, Ms.

MacFadden, Vernon Paul, Fy.
McGary, Donald Frederick, Es.
McGowan, Gaylon Hamilton, Me.
MacLaren, Harold Leland, Es.
McNamara, Joseph Basil, Ed.
Mahonev, John Hagerthy, Eh.
Marsh, Marion Faye, Hy.
Martin, George Nelson, Ce.
Mason, Myron Stuart, Ce.
Mason, Pauline Catherine, Sp.

Matthews, Annette Susan, Hy.

Maxwell, Sidney Armond, Es.
Merchant, Edith Charlotte, Bl.
Meserve, Norman Albert, Fy.
Miles, Arthur Rowe, Eh.
Mitchell, Alfred Bradford, Ch. Eng.
Moon, Monroe Emery, Eh.
Moore, John Philip, Eh.
Morneault, Angeline Gertrude, Ms.
Mulvaney, Margaret Constance, Lt.
Muzzey, Arnold Kingsley, Ch. Eng.
Muzzy, Bessie Agnes, He.
Myers, Beatrice Evelyn, Fr.

Newcomb, Christine, Fr.
Newcomb, Olevia Olive, Eh.
Niles, Arthur Herbert, Ce.
Norton, Howard Richard, Ce.
Nutting, Albert Deane, Fy.

O'Connell, Alice Katherine, Fr.
O'Connor, Edith Harriet, He.
O'Connor, Watson Burdette, Jr., Be.
O'Neil, John Daniel, Fy.
Orne, Lorinda Belle, Bl.
Osborne, William Henry, Bl.
Otis, Clarence Edward, Ee.
Palm, Sara Alice, Hy.
Parker, Lyndall Kilgore, Fy.
Parsons, James Dana, Ee.
Parson, William, Fy.
Patch, John Edward, Ee.
Peabody, Clara Webster, Es.
Peabody, Helen Adams, Eh.
Pearce, Selden Jaquith, Ch. Eng.
Pendleton, Roger Alford, Ee.
Peters, Ada Viola, Fr.

Plummer, Arnold Franklin, Es.
Poor, Bernard Tyler, Ee.
Poor, Cuyler Stone, Ce.
Poor, Florence Leita, Eh.
Porter, Arnold Beardsley, Ce.
Preble, Margaret Mary, He.
Proctor, Kenneth Lee, Ch. Eng.
Purinton, William Andrew, Me.

Rand, Alden James, Me.
Ridley, Donald Harry, Ag.
Kiley, Harley Martin, Ce.
Robinson, George Amos, Es.
Robinson, Jackson Albert, Es.
Robinson, Paul Stanwood, Ce.
Rollins, Carlton Edward, Ce.
Rosen, Daniel Albert, Ch. Eng.
Rounsville, Sherman Hall, Ee.
Rowell, Pauline Frances, Hy.

Sanborn, Harry Foresti, Ee.
Sanford, Arthur Redington, Fy.
Saunders, Henry Warren, Jr., Ee.
Sawyer, Frances Virginia, Sp.
Sawyer, Sinheer Ferris, Ce.
Schwartz, Carol, Bl.
Scott, Arnold Francis, Ee.
Scribner, Henry Allen, Ee.
Sennett, Harold Eugene, Ee.
Shaw, Richard, Ee.
Skillings, Clarence Edmund, Es.

Milford 2 X X House
Oakland 0 X X House

Orono 32 Myrtle Street
Auburn 0 T 0 House
North Gorham 0 M 0 House
South Berwick 0 T 0 House
York Village 29 Bennoch Street
Portland Mt. Vernon House
Portland Mt. Vernon House
Hallowell 0 X 0 House
Islesboro 77 Mill Street
Bangor 12 Carroll Street, Bangor

Harrington 0 G 0 House
Sebago 405 Oak Hall
Sebago 405 Oak Hall
Sebago 184 Main Street
Houlton 0 X 0 House
Brewer Balentine Hall
Presque Isle 0 H 0 House
Bangor 45 Ohio Street, Bangor

Bangor 131 Fern Street, Bangor
Sanford Campus
Livermore Falls 0 T 0 House
Washington, D. C. 407 Oak Hall
Washington, D. C. 407 Oak Hall
Auburn 29 Spencer Street
Waterboro 29 Spencer Street
Woodland 212 H. H. Hall
Fairhaven, Mass. 0 K 0 House
Orono 87 North Main Street

West Baldwin 311 H. H. Hall
Redding, Conn. 0 T 0 House
Westbrook 54 Pine Street
Jonesport Balentine Hall
Bangor 241 State Street, Bangor
Portland 405 H. H. Hall
Deer Isle 54 Pine Street
Augusta 0 A 0 House
Albion 0 X 0 House
Prospect Harbor 45 Mill Street
Dover-Foxcroft
Winterport 202 Oak Hall
Waterboro 80 Forest Avenue
Grand Manan, N. B. Balentine Hall
Vinalhaven 309 Oak Hall
East Corinth Σ Α E House
Portland 104 Oak Hall
Warren 41 Margin Street
Oroko 41 Margin Street
Milo Α T Ω House
Portland 210 H. H. Hall
Bangor 416 Hancock Street, Bangor
Bar Harbor 56 Park Street
Brownville 412 Oak Hall
Oroko 190 Main Street
Pittsfield Φ Η Κ House
Thomaston 104 Oak Hall
Mars Hill Κ Σ House
Springvale Balentine Hall
Waterville Κ Σ House
Greenville Junction 10 Mill Street
Monticello Θ Χ House
Kittery Point 10 Beech Street
Bangor Mt. Vernon House
Deer Isle Σ Α E House
Bangor 99 York Street, Bangor
Mechanic Falls Σ Φ Σ House
Hartford, Conn. 402 Oak Hall
Bucksport Bennoch Street
Randolph Center A Γ P House
Kittery Point 10 Beech Street
Waldoboro Β Θ Π House
Southwest Harbor Σ N House
Bangor 40 Everett Street, Bangor
Winthrop Σ Α E House
Millinocket Σ N House
Bangor Β Θ Π House
Waterville Θ Χ House
Bradley Bradley
Portland 308 H. H. Hall
Welch, Hortense Agnes, He.
Wentworth, Irene Marion, Eh.
Wentworth, Paul Jagger, Es.
Wentworth, Wilbert Estranda, Hy.
Wessell, Nicolai Frederick, Ee.
Whalen, Donald Gregory, Eh.
White, Margaret Julia, Lt.
Whitehouse, Philip Alton, Me.
Williams, Amber Leola, Eh.
Winch, Eugene Christie, Fy.
Wiswell, Andrew Muller, Bl.
Wood, Hazel Ota, Eh.
Wood, Raymond Emery, Ee.
Wood, Serena, Es.
Wray, Donald Eugene, Es.
Wuraftic, Joseph, Ce.

Bradley  Eastport
Bradley  A X A House
Sanford  205 H. H. Hall
Freedom  54 Pine Street
Eastport  Σ Φ Σ House
Winterport  Balentine Hall
Winter Harbor  112 H. H. Hall
Bangor  Balentine Hall
Bangor  208 H. H. Hall
Machias  211 H. H. Hall
Bridgewater  Balentine Hall
Sebago  101 H. H. Hall
Bangor  Webster Avenue, Bangor
Brewer  Brewer
Portland

Adams, Gifford Belcher, Fy.
Aiken, Mary Pauline, Arts
Allen, Donald Mills, Ce.
Allen, Harvey Augustus, Arts
Ames, Fred Guilford, Fy.
Anderson, Kenneth Otto, Arts
Andrews, Caroline Delphene, Arts
Andrews, Jacob Sherman, Ee.
Ayer, Louise May, Arts

Babb, James Carroll, Arts
Baker, Russell Bradford, Arts
Balch, William, Me.
Bamford, Harold Franklin, Ch.
Barnard, Carl Wachter, Arts
Bartlett, Edwina Marion, Arts
Bates, Thomas, Arts
Beckler, Philip Arthur, Ce.
Beeaker, Vincent Harold, Arts
Bell, Dorothy Margaret, Arts

Bennett, Earl Freeman, Ce.
Berger, Rebecca, He.
Besse, Erdine Faye, Arts
Beets, Lynwood Keaton, Ch. Eng.

Boothbay Harbor  303 H. H. Hall
Bangor  85 Maple Street, Bangor
Bangor  410 H. H. Hall
Gardiner  Φ Η K House
Fridgton  209 H. H. Hall
Houlton  Φ Κ Σ House
Hallowell  Balentine Hall
Gloucester, Mass.  305 Oak Hall
Lincoln  Balentine Hall

Sebago  409 Oak Hall
Bangor  80 Wiley Street, Bangor
Hudson, Mass.  109 Oak Hall
Newburyport, Mass.  Α Τ Ω House
Gardiner  108 Oak Hall
Hampton  Mt. Vernon House
Bath  Σ Α E House
Bethel  Φ Η K House
 Rumford  109 H. H. Hall
Bangor

31 Sidney Street, Bangor

Auburn  Α Τ Ω House
Bangor  57 Pine Street, Bangor
Albion  Mt. Vernon House
Dover-Foxcroft  Λ X Α House
Blaisdell, Theodore Jewett, Ee.
Blake, Wallace, Ee.
Blodgett, Raymond Harris, Ee.
Bond, Charles Rogers, Jr., Ee.
Boyd, Lloyd Edmund, Ag.
Bradford, Milton Lewis, Ag.
Bradley, James Vincent, Jr., Me.
Branscom, James Stuart, Ee.
Bridges, Elmer Milton, Me.
Brockway, Dana Bliss, Ag.
Brown, Robert Stanton, Fy.
Brown, Ruel Ernest, Ag.
Burgess, Ava Louise, He.
Burns, Mary Katherine, Arts
Burpee, Gerald Newton, Arts
Burrill, Thelma Edith, Arts
Buzzell, James Chandler, Eng.

Caldwell, John Carroll, Arts
Carter, Beradetta Richardson, Arts
Carter, Bertha Faustina, Arts
Carter, John Wendell, Ag.
Cary, Russell Singer, Fy.
Chalmers, Margaret, Arts
Chappell, George Raymond, Ee.
Chase, Granville Clifford, Ch.
Cheney, Leon Austin, Ch.
Clapp, Alice, He.
Clark, Earl Leslie, Ee.
Clark, Linton, Arts
Coffin, Nathaniel Wilbur, Arts
Cohen, Hymen Jacob, Arts
Colleton, Francis Leo, Ce.
Conary, Clifton Vordel, Arts
Conro, Wray Clifton, Arts
Cram, Kenneth David, Ch.
Crandon, Harry Drew, Ch.
Creamer, Warren Emery, Ee.

York Village 201 H. H. Hall
Brownfield 111 Oak Hall
Bowdoinham 105 Oak Hall
Bangor B Ω Π House
Liberty 404 H. H. Hall
Brooks 43 Main Street
Millinocket 406 Oak Hall
Northeast Harbor K Σ House
Sedgwick 108 Oak Hall
East Corinth M. C. A. Building
Poquonock, Conn. 10 Beech Street
Bradley Bradley
Belfast Bennoch Street
Portland 29 Pond Street
Bangor Balentine Hall
Bangor Balentine Hall
Fryeburg Φ Κ Σ House

Island Falls 331 Center Street, Bangor
Attleboro, Mass. 111 Oak Hall
Washburn 105 Oak Hall
Mapleton Bangor
Melrose, Mass. 109 Oak Hall
Bangor Bangor
Saco Bangor
Baring Bangor
Randolph Bangor
Sedgwick Bangor
Mt. Vernon House
Winterport Bangor
Madison Bangor
Presque Isle Balentine Hall
Roxbury, Mass. 111 Oak Hall
Bridgton Bangor
Camden Bangor
Attleboro, Mass. Bangor
Litchfield Bangor
South Portland Bangor
Bangor Bangor

Brunswick 307 Oak Hall
Bangor 406 Oak Hall
Eastport 411 Oak Hall
Bangor 411 Oak Hall
Old Town 406 Oak Hall
Old Town 406 Oak Hall
Old Town 406 Oak Hall
Daggett, Vaughan Merrill, Ee.

Demmons, Henry Crockett, Ch.

Densmore, Ruth, He.

Desjardins, George Eloi, Ee.

DeVeau, Stanley Joseph, Me.

Dickey, Emery Stanhope, Fy.

Doble, Charles Edmund, Arts

Dodge, Fred Mann, Ce.

Dolliver, Ferdinand Moore, Ag.

Donovan, Wallace Thomas, Ch. Eng.

Douglas, Lydia Myers, Arts

Dudley, George Franklin, Arts

Duffy, John Peter, Arts

Elliott, Herbert Everett, Eng.

Etscovitz, Abraham, Arts

Farnsworth, Donald Woodsum, Ee.

Fernald, Abba Colburn, Arts

Fickett, Kenneth Morton, Ee.

Fitzherbert, Eleanor Margaret, Arts

Fitzhugh, Raynor Keese, Ch. Eng.

Fitzmaurice, Frederick Edward, Fy.

Fitzpatrick, Francis Garrett, Ee.

Flint, Clarence Melville, Ee.

Flint, Henrietta Mae, Arts

Flynn, Carl Munro, Eng.

Flynn, Evelyn Lois, He.

Folsom, Elwood Earle, Ee.

Foster, Lewis Getchell, Ee.

Foster, Russell Eaton, Ag.

Friedman, Rebecca, Arts

Friend, Philip Stearns, Ce.

Fuller, David Wilbur, Arts

Fuller, Frances Snow, Arts

Bangor

Portland

Old Town

Stillwater

Bridgton

Seawall

Brunswick

Portland

Benedicta

Kesar Falls

Fort Kent

China

Winterport

Kentar

Mount Vernon, N. Y.

Houlton

Roslindale, Mass. 5 Forest Avenue

Bangor 254 Center Street, Bangor

Harrington

Bingham

Madison

Augusta

Augusta

74 Jefferson Avenue, Bangor

Bangor 23 Fourth Street, Bangor

Southwest Harbor College Road

Hallowell

Richmond

Easton

Houlton

Newcastle

Bar Harbor

Livermore Falls

Augusta

Sigma Xi House

25 Grove Street

Balentine Annex

Old Town

Delta Delta House

Beta Pi House

709 H. H. Hall

Sigma Nu House

104 H. H. Hall

Balentine Annex

Beta Pi House

47 Mill Street

211 H. H. Hall

202 H. H. Hall

23 Park Street

Balentine Hall

Sigma Xi House

Delta Tau Omega House

16 Pine Street

304 H. H. Hall

405 Forest Avenue

203 H. H. Hall

Balentine Hall

Delta Tau Omega House

404 H. H. Hall

Theta Xi House

Houlton

203 H. H. Hall

Bangor

College Road

Balentine Hall

12 Mill Street

Phi Kappa House

Sigma Xi House

Beta Pi House

403 Oak Hall

410 H. H. Hall

Beta Pi House
Ginsberg, Hilda Freda, Arts
Gonyar, Charles Philip, Arts
Goodspeed, Allen Wright, Fy.
Googins, Keith Byron, Ee.
Goold, Pierce Edmund, Arts
Grant, Elwyn Fletcher, Ch.
Grant, Harry Arthur, Ag.
Grindal, Katherine Lavonia, He.

Hale, James Elliott, Ee.
Hall, John Harold, Fy.
Hamilton, Harold Polleys, Ee.
Hamlin, William Delwin, Arts
Hammond, Seymour Chamberlain, Fy.

Hammons, Herbert Edmund, Ee.
Harrigan, Robert Shaw, Arts
Hartman, Harry Robert, Ce.

Itarvey, Thomas Gray, Ee.
Hashey, Doris Margaret, Arts
Hatch, Frieda Wardwell, Arts
Hathaway, Roy Severy, Fy.
Havey, Boardman Blaisdell, Ee.

Hayden, Wilson Sidney, Fy.
Haynes, Whitcomb, Ce.
Heald, Francis Edmund, Ee.
Hescock, Lee Fenderson, Ee.
Higgins, Howard Stover, Arts
Highlands, Matthew Edward, Arts
Hikel, Philip Solomon, Ce.
Hill, Ralph Arthur, Ch.
Hill, Waldo Willis, Ce.
Hough, Orvil Lincoln, Ag.

Houghton, Delia, Arts
Hooyt, Reginald, Ch. Eng.
Hubbard, Neale Jury, Ch.
Hunnewell, Allan Winfield, Me.
Hunnewell, Kieth Philip, Ch. Eng.
Huot, Donald Jordan, Me.
Hurd, Clara Lucille, Arts
Hutchinson, Izora Mae, Arts

Old Town
Bangor
Montclair, N. J.
Bangor 297 French Street, Bangor
Hanover, N. H.
Waterville 103 H. H. Hall
Leeds Center
Sargentville

Monson
Mexico
Baring 402 H. H. Hall
Minneapolis, Minn.
Shrewsbury, Mass.

South Brewer
Bangor 319 State Street, Bangor
Litchfield, Conn.

Fort Fairfield
Orono 21 Middle Street
Castine Balentine Hall
North Jay M. C. A. Building
West Sullivan

Augusta
Ellsworth
Madison 408 Oak Hall
Gardiner 309 Oak Hall
Ellsworth 407 H. H. Hall
North Berwick 212 H. H. Hall
Millinocket 402 Oak Hall
Orono 391 College Road
Biddeford 204 Oak Hall
Bangor

54 Webster Avenue, Bangor

Lubec Balentine Annex
Dover-Foxcroft Λ X A House
Lynn, Mass. 107 Oak Hall
Bingham 212 Oak Hall
Bingham 101 Oak Hall
Brewer Brewer
Old Town Old Town
Old Town Old Town
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Address</th>
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<tbody>
<tr>
<td>Ingalls, Harold Edwin, Ce.</td>
<td>Bangor</td>
<td>240 Garland Street, Bangor</td>
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<td>Izenstein, Samuel Timothy,</td>
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<td>Jackson, Robert Howard, Ch.</td>
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<td>Rumford</td>
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<td>Bangor</td>
<td>19 Third Street, Bangor</td>
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<td>4 Myrtle Street</td>
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<td>Mexico</td>
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</tbody>
</table>
Lucas, James Howard, Ce.
Lunt, Irving Benjamin, Arts
Lymburner, Lawrence Everett, Ee.
Lymburner, Paul Smith, Ee.

McCann, Robert John, Ch.

McCarthy, William James, Arts
McCobb, John Bradford, Me.
McCracken, Elizabeth Myrtle, Arts
MacDonald, James Cornahan, Fy.
MacDougall, James Archibald, Arts
McEwen, Arthur Chester, Ch.
McGarrigle, Elisabeth Alice, Arts

McGuire, Mary Agnes, Arts
MacIntyre, Carl Newton, Ch.
McNaughton, Clifford Merle, Ee.
McSorley, Philip Earl, Ee.
Mack, Edward Sager, Arts
Mahan, Miles Leo, Arts
Marsh, John Albion, Fy.
Marshall, Osborne Leo, Me.
Marston, Marguerite, Arts
Masse, Agnes May, He.
Maxwell, Preston Ellis, Ch. Eng.
Meader, Forrest Whittaker, Arts
Means, Horace William, Ee.
Medeiros, Harold Anthony, Arts
Merchant, Ernest Woodman, Ee.
Metcalf, Phyllis Evelyn, He.
Michaud, Hector Frank, Arts
Miniutti, Firovanti Oswald, Arts
Mitchell, Marguerite, He.
Morrison, Raymond Hewes, Ee.

Morrison, Walter Howard, Ch. Eng.
Moulton, Fred Leonard, Ch. Eng.
Murdoch, Lawrence Henderson, Fy.
Murphy, Charles Richard, Fy.
Murray, Grace Woolcock, He.

Muzzy, Alice May, Arts

York Village  29 Bennoch Street
West Falmouth  5 Forest Avenue
Bar Harbor  K Σ House
Sargentville  307 Oak Hall

West Groton, Mass.
Bangor  81 Pearl Street, Bangor
Camden  302 H. H. Hall
Brewer  Brewer
Newton, N. J.  203 H. H. Hall
Milo  Φ Η K House
Waterville  Θ Χ House
Bangor  117 Fourth Street, Bangor
Stonington  Balentine Hall
South Brewer  309 Oak Hall
Dover-Foxcroft  Δ T Δ House
Guilford  301 H. H. Hall
Brewer  Θ X House
Millinocket  Θ X House
Dixfield  310 H. H. Hall
Kittery  303 H. H. Hall
East Brownfield  Balentine Annex
East Vassalboro  Balentine Hall
Stoneham, Mass.  Β Ο Π House
Albion  Λ Τ Ω House
Sedgwick  108 Oak Hall
Vanceboro  Φ Μ Δ House
Walnut Hill  33 Bennoch Street
Greeneville Junction  Balentine Hall
Waterville  54 Pine Street
North Berwick  212 H. H. Hall
Waterville  119 Mill Street
Bangor  15 Plaisted Avenue, Bangor
Stoneham, Mass.  207 Oak Hall
Lynnfield, Mass.  107 Oak Hall
Dorchester, Mass.  110 H. H. Hall
Rumford  111 H. H. Hall
Hampden Highlands  Mt. Vernon House
Greeneville  Balentine Hall
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Theriault, Martin Harold, Arts  
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Tolvo, Benedict Edward, Fy.  
Townsend, Eben Lee, Ch.  
Trefethen, John Waterman, Arts  
Tribou, Laura Emma, He.  
Trickey, Philip Harold, Ee.  
True, John Wentworth, Ag.  
Tucker, Clarence Arthur, Ce.  
Tuttle, Charles Warren, Fy.  

Viles, William Payson, Fy.  
Viner, William Clarence, Arts  

Viola, Vincent James, Arts  

Waldron, James Neal, Fy.  
Walker, Gordon MacKay, Arts  
Walls, Charles Willard, Arts  
Walton, Philip Gerald, Fy.  
Ward, Elmer Ham, Arts  
Warren, Eugene Davis, Arts  
Waterman, Julian, Arts  
Welch, William Kenneth, Ee.  
Westman, Alvin Poole, Fy.  

Whitcomb, Russell Elmer, Ag.  
White, Alma Edna, Arts  

Whitehouse, Vinetta Mae, He.  
Whitten, Charles Applebee, Ee.  
Wight, Edward Leander, Ee.  

Milo  
Thomaston, Conn.  404 Oak Hall  
Portland  Σ A E House  
Waltham, Mass.  Φ K Σ House  

Old Town  
Millinocket  303 H. H. Hall  
Calais  Balentine Hall  
Machias  Balentine Annex  
Millinocket  Σ N House  
Southport  Σ A E House  
Bangor  Mt. Vernon House  
Lee  404 H. H. Hall  
Portland  402 H. H. Hall  
Millinocket  47 Mill Street  
Lee, Mass.  409 H. H. Hall  
Readfield Depot  302 H. H. Hall  
Portland  Σ N House  
Machias  Balentine Hall  
Bangor  65 Grant Street, Bangor  
New Gloucester  Σ Φ Σ House  
Cherryfield  115 Mill Street  
Westbrook  K Σ House  

Augusta  B Θ Π House  
Bangor  339 Hancock Street, Bangor  
Orono  R.F.D. #7, Bangor  

Dexter  301 H. H. Hall  
Millinocket  Α Τ Ω House  
Medford, Mass.  Α Τ Ω House  
Portland  Σ N House  
Hartland  25 Grove Street  
Portland  Δ Τ Δ House  
Bangor  304 H. H. Hall  
Stonington  201 Oak Hall  
West Boothbay Harbor  111 H. H. Hall  
Readfield  188 Main Street  
St. Johnsbury, Vt.  Mt. Vernon House  

Unity  Balentine Hall  
Lee  Φ Η Κ House  
Bolster’s Mills  203 H. H. Hall
<table>
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<th>Name</th>
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<tr>
<td>Quint, Kenton Emerson, Arts</td>
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<td>Race, Cecil Raymond, Ee.</td>
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<td>Reed, James Winfield, Arts</td>
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<td>Reid, William S., Ce.</td>
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<td>Reussner, Robert Joseph, Fy.</td>
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<td>Robertson, Ralph Turner, Ce.</td>
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<td>Rood, Ernest Whitman, Arts</td>
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<td>Saunders, Ethel Stover, Arts</td>
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<td>Mattawamkeag 29 Bennoch Street</td>
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<td>Smith, Arthur Albert, Ee.</td>
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<td>Smith, Helen Virginia, He.</td>
<td>Orono 32 Pierce Street</td>
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<td>Snider, Linwood Frank, Ce.</td>
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<td>102 Oak Hall</td>
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<td>Monson Balentine Hall</td>
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<td>Stephan, Martha Amelia, He.</td>
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<td>Stevens, David Harvey, Ce.</td>
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<td>Stone, Charles Preston, Ag.</td>
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<td>Stone, Dorothea Lillian, Arts</td>
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<td>Stratton, John Rupert, Jr., Ee.</td>
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<td>Striar, Gordon Bernard, Arts</td>
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</tbody>
</table>

20 Newbury Street, Bangor
Strout, Willard Jerome, Ce.
Stuart, Howard Holmes, Ch.
Sturgis, Guy Hayden, Ee.
Swift, Orville Thomas, Ee.

Thaxter, Robert Pierce, Ce.
Theriault, Martin Harold, Arts
Thompson, Eloise Boyington, He.
Thompson, Emma Elizabeth, He.
Thompson, Fred Harold, Arts
Thompson, Richard, Me.
Thompson, Ruth Maria, He.
Thompson, Samuel Adams, Ee.
Thrall, Meredith Charles, Arts
Tibbitts, Earl Stanley, Arts
Tolvo, Benedict Edward, Fy.
Townsend, Eben Lee, Ch.
Trefethen, John Waterman, Arts
Tribou, Laura Emma, He.
Trickey, Philip Harold, Ee.
True, John Wentworth, Ag.
Tucker, Clarence Arthur, Ce.
Tuttle, Charles Warren, Fy.

Viles, William Payson, Fy.
Viner, William Clarence, Arts

Viola, Vincent James, Arts

Waldron, James Neal, Fy.
Walker, Gordon MacKay, Arts
Walls, Charles Willard, Arts
Walton, Philip Gerald, Fy.
Ward, Elmer Ham, Arts
Warren, Eugene Davis, Arts
Waterman, Julian, Arts
Welch, William Kenneth, Ee.
Westman, Alvin Poole, Fy.

Whitcomb, Russell Elmer, Ag.
White, Alma Edna, Arts
Whitehouse, Vinetta Mae, He.
Whitten, Charles Applebee, Ee.
Wight, Edward Leander, Ee.

Milo
Thomaston, Conn. 404 Oak Hall
Portland Σ A E House
Waltham, Mass. Φ K Σ House

Old Town
Millinocket 303 H. H. Hall
Calais Balentine Hall
Machias Balentine Annex
Millinocket Σ N House
Southport Σ A E House
Bangor Mt. Vernon House
Lee 404 H. H. Hall
Portland 402 H. H. Hall
Millinocket 47 Mill Street
Lee, Mass. 409 H. H. Hall
Readfield Depot 302 H. H. Hall
Portland Σ N House
Machias Balentine Hall
Bangor 65 Grant Street, Bangor
New Gloucester Σ Φ Σ House
Cherryfield 115 Mill Street
Westbrook K Σ House

Augusta B Θ Π House
Bangor
339 Hancock Street, Bangor
Orono R.F.D. #7, Bangor

Dexter 301 H. H. Hall
Millinocket Α Τ Ω House
Medford, Mass. Α Τ Ω House
Portland Σ N House
Hartland 25 Grove Street
Portland Α Τ Δ House
Bangor 304 H. H. Hall
Stonington 201 Oak Hall
West Boothbay Harbor 111 H. H. Hall

Readfield 188 Main Street
St. Johnsbury, Vt. Mt. Vernon House

Unity Balentine Hall
Lee Φ Η K House
Bolster's Mills 203 H. H. Hall
<table>
<thead>
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<th>Name</th>
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<th>Location</th>
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<tr>
<td>Wilcox, Harry Keith, Arts</td>
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<td>Wilson, Blair Cochran, Ch.</td>
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<td>Witham, Herbert Lloyd, Me.</td>
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<td>Wood, Clifton Allen, Ce.</td>
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<tr>
<td>Atkins, Sumner William, Ee.</td>
<td>(’27)</td>
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<td>Barker, Harold Orin, Ag.</td>
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<td>Berry, Raymond Pratt, Es.</td>
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<td>Curran, Rosemary, Eh.</td>
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<td>Malloy, Edward Thomas, Ed.</td>
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<td>Gorham, N. H.</td>
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<td>Redlon, John Albert, Jr., Ce.</td>
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<td>Rudman, Ruth Esther, Eh.</td>
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<td>Sawyer, Elizabeth Louise, Eh.</td>
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<td>Scribner, Eugene Doughty, Me.</td>
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<tr>
<td>Small, Orlando Weeks, Ag.</td>
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<td>Farmington</td>
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</tbody>
</table>
SPECIAL STUDENTS

Steward, Evangeline, Py. (’26) St. Johnsbury, Vt. 46 College Road
Warren, Harold Howard, Ed. (’26) Kenduskeag Kenduskeag
Wilson, William Sumner, Ee. (’26) Bucksport 309 H. H. Hall
Woodard, Clinton Albert, Ee. (’26) Bingham Φ K Σ House

SPECIAL STUDENTS

Arbo, Paul Payson, Ag.
Bridge, Carroll Joseph, Ag.
Brooks, James Strothard, Ce.
Burke, William James, Fy.
Byther, Dorothy Iolo, Eh.
Campbell, Sadie, Eh.
Candage, Edna Maye, Ms.
Corning, John Burt, Fy.
Dyer, Laura Esther, Arts
Dyer, Russell Hawes, Fy.
Fahey, Mary Agnes, Arts
Felker, Everett Joshua, Ed.
Gustin, Richard William, Arts
James, Beatrice, Arts

Brownville 203 H. H. Hall
Dexter 17 James Street, Bangor
Bangor 25 Mill Street
Stillwater Stillwater
Sabattus Practice House
Oroko 119 Mill Street
Bangor 393 State Street, Bangor
West Kennebunk 25 Grove Street
Oroko 16 Pine Street
Holliston, Mass. Φ Τ Δ House
Bangor 14 Maple Street, Bangor
Brooks 5 Forest Avenue
Oroko 33 Main Street
New York, N. Y.
473 Hammond Street, Bangor

Bucksfield 311 H. H. Hall

SCHOOL COURSE IN AGRICULTURE

Second Year

Buck, Bertrand Charles

Bucksfield 311 H. H. Hall
UNIVERSITY OF MAINE

First Year

Charles, Preston Rex
Kimball, Harold Vinton
Flaisted, Leigh Charles
Stearns, Hugh Wallace

SUMMER TERM

Abbott, Floyd Nelson
Allen, Arabel Libby
Ames, James Wesley
Annett, James Gordon
Arnold, Alice Elinor
Arnold, Philip Elmer
Ascher, John Philip
Austin, Pauline Rooks
Bailey, William Gilmore
Barnes, Violet Hilda
Peckett, Christine Esther
Bellatty, Helene Bernice
Bennett, Eva Helena
Besse, Arline Day
Betz, Catharine Elizabeth
Bird, Madeline, B.A.
Maine, 1921
Blake, Ralph Scott
Blethen, Helena Turner
Boothby, Margaret Foster
Poulanger, Joseph Oscar
Bradbury, Philip Whitney
Braun, Helen Evelyn, B.A.
Hunter College
Briscoe, Ethel
Brooks, Anna Caroline, Pd.B.
N.Y. State Teachers' College, 1902
Brookes, George Savage
Brown, Addie May
Brown, Alward Embury, B.A., B.S.E.
Albion, 1919; Michigan, 1921
Brown, Pauline
Brown, Sara Crissy
Brown, Stephen Walter
Bryant, George, B.S.
Colby, 1917

Bangor 25 Grove Street
Auburn 109 Oak Hall
Camden College Road
North Waterford 409 H. H. Hall

Albion
Richmond
Walpole, Mass.
South Berwick
Portland
South Portland
New York, N. Y.
Ellsworth
Carmel
Bangor
Calais
Ellsworth
Bangor
Albion
Rochester, N. Y.
Rockland

Houlton
Vextor
Gorham
Stratton
East Boothby
New York, N. Y.

Orono
Geneva, N. Y.

Ellsworth
Seawall
Ganges, Mich.

Toledo, Ohio
Stamford, Conn.
Dover-Foxcroft
Limestone
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<td>Caratunk</td>
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<td>Castine</td>
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<td>Tufts College, Mass.</td>
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<td>Topsham</td>
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<td>Bath</td>
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<td>Eastman, Madeleine Gladys, B.A.</td>
<td>Brookfield, Mass.</td>
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<td>Eckels, Elizabeth Ann</td>
<td>Old Town</td>
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<td>Edgerly, Olive Etta</td>
<td>Providence, R. I.</td>
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<td>Bridgton</td>
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<td>College of St. Elizabeth, 1921</td>
<td>Old Town</td>
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<td>Eye, Ralph Farnham</td>
<td>Bangor</td>
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Fenlason, Philip Greydon
Fenner, Helen Wooddell, B.A.
    Brown, 1924
Fernald, Abba Colburn
Fernald, Cornelia Rankin
Flynn, Ernest Vincent
Foley, Margaret Mary
Follansbee, Helen Lincoln, Ph.B.
    Boston University, 1900
Foster, John Henry
Frazer, Harry John
Gallagher, James Francis
Garrity, Edward George
Gelber, Elizabeth Weitman
Gibbs, Wilhelmina Frost
Ginsberg, Belle Grace, B.A.
    Hunter, 1915
Glendon, Margaret Ellen
Glover, Bettie Raymond
Goldsmith, Isador Keith
Gómez-Durán, Eduardo, Ph.B., B.A.
    Colegio del Rosario, 1910;
        Valparaiso, 1922
Gonyar, Charles Philip
Gould, Fred Frank
Gould, Sherman Jewett, B.S.
    Bates, 1916
Gowen, Mabel Hope
Grant, Edna Louise
Grant, Judson Milton
Gross, Elroy Heyer
Grover, Thelma Josephine
Guy, Fred
Hale, Edward Rice
Hall, Miriam Adelaide
Hamilton, John Murray
Harding, Margaret Frances
Hardy, James Hazen
Hardy, Oral Alton
Harrigan, Robert Shaw
Harriman, Elsie Rebecca
Harris, Elijah Edgar, B.D.
    Newton Theological Seminary,
        1901
Harrison, Sarah Emma

Milltown
Auburn, R. I.

Winterport
Winterport
Fitchburg, Mass.
Bayonne, N. J.
Gloucester, Mass.

Portland
Kennebunkport
Bangor
Stonington, Conn.
Brooklyn, N. Y.
Ellsworth
New York, N. Y.

Lynn, Mass.
Orono
Bangor
Republic of Colombia, S. A.

Bangor
Milo
Farmington

South Brewer
Bangor
Carmel
Waldoboro
Norway
Piedmont, West Va.
Castine
Hampden
Atlantic, Mass.
Brunswick
New York, N. Y.
Stillwater
Bangor
South Brewer
LaGrange

Irvington, N. J.
Hawes, Arthur LaFayette
Hawes, Roy Mitchell, B.A.
    Colby, 1918
Hayes, Gertrude Mary, B.A.
    College of St. Elizabeth, 1916
Hellstrom, Per David
Henry, Grace Gertrude
Henry, Pansy
Herschdorfer, Helen, B.A.
    Hunter, 1923
Hickey, Elizabeth
Hill, Ralph Arthur
Hodgins, Ardra Oriva
Hofsted, Eugene Albert, LL.B.
    Brooklyn, 1911
Houghton, Amory McLellan
Howard, Harold Amasa
Hubbard, Florence Eddy, B.A.
    Barnard, 1904
Huff, Eugene Alvin
Hunnewell, Clayton Moore
Hunt, Carrie Lavinia
Jellison, Howard Lazier
Johnson, Charles Edgar
Johnson, Howard Lawrence
Johnson, Virginia Howard
Juell, Frederick
Kallman, Beatrice Babette
Katzenberg, Florence, B.A., M.A.
    Hunter, 1922; Columbia, 1924
Katzenberg, Helen
Keating, Anna Josephine, B.A.
    Maine, 1921
Keegan, Sister M. Eucharia, B.S.E.
    St. Joseph's, 1919
Keene, Alice Mary
Kelley, Norman James
Kemp, Ruth Marie
Kennon, George Harrison
Kennedy, Stella Bell
Kirk, Florence Mae
Knights, Allen George
Kolouch, Joseph Fred
Krivulin, Ida, B.A.
    Hunter, 1913

Washburn
Springfield, Mass.
Montclair, N. J.
Montclair, N. J.
Bangor
New York, N. Y.
North Vassalboro
Orono
Houlton
Rockville, Conn.
Bath
Wethersfield, Conn.
Brooklyn, N. Y.
Rangeley
Caratunk
Montclair, N. J.
Surry
Brownville
Rockland
Norfolk, Va.
Holyoke, Mass.
New York, N. Y.
New York, N. Y.
New York, N. Y.
Camden
Orono
Camden
Orono
Cumberland Center
West Baldwin
Kingfield
Bangor
Albion
New Bedford, Mass.
New York, N. Y.
Lawrie, Christabel Finley  
Lawler, Elizabeth  
Lee, Romie Lois  
Libby, Alice Maude  
Little, Katharine Day  
Link, Ernest James  
Lord, Julia  
Lucas, Warren Stanhope, B.A., M.A.  
Maine, 1914; 1922  
Lundgren, Johan Henning  
Lyman, Ruth Adelle  
McCarthy, William James  
McGarrigle, Elisabeth Alice  
McGraw, Earl Cranston, B.A.  
Maine, 1922  
McKenney, Leroy Nelson  
MacLaren, Harold Leland  
MacLaughlin, Marlin Vance  
Mahoney, John Hagerthy  
Mason, John Carlton  
Marsano, Elizabeth Anna  
Mead, Mary Louise  
Merritt, Carleton Westwood  
Milan, Frank Lindsey  
Moody, Dwight Lyman  
Moore, Janice Rachel  
Morris, Elinor  
Morse, Frank Leander Staples, B.A.  
Maine, 1922  
Moulton, Fred Hartshorn  
Mullen, Margaret Catherine, B.A., M.A.  
Trinity, 1922; Maine, 1924  
Mulvaney, Arthur Danforth, B.S.  
Maine, 1922  
Munsey, Mildred Wood  
Murphy, Sister Mary Eulalia, B.S.E.  
St. Joseph's 1919  
Murray, Joseph Magee  
Mutchler, Marjorie Louise  
Myers, Jennie Barnes  
Nadeau, Eugene Joseph  
Nakane, Shiges, B.S., M.S.  
Bowdoin, 1922; Chicago, 1923  
Nevens, Joy Leavitt  
Nichols, Helen Louise  

Orono  
Southwest Harbor  
Stillwater  
Vinalhaven  
Orono  
New York, N. Y.  
Bangor  
Orono  
Holyoke, Mass.  
Bangor  
Bangor  
Hampden Highlands  

Oakland  
Derby  
Brewer  
Ellsworth  
Island Falls  
Belfast  
New York, N. Y.  
South Portland  
North Haven  
Danforth  
Bangor  
Guthrie, Oklahoma  
Rockland  

North Jay  
Bangor  
Bangor  
Orono  
Bangor  

Hampden  
Bayonne, N. J.  
Portland  
Great Works  
Tokio, Japan  
Woodfords  
Portland
Nichols, James Albert, Jr.,
Northrup, Christine Adelia, B.A.
Maine, 1919

Norton, Marion Hayes
Norton, Verna, B.Ped.
Maine, 1921

Noyes, Gordon Max
Oak, Philip Tracy
Oliver, Velma Katherine
O’Neill, Bernard William
O’Neill, Mary Lillian
Orcutt, Katherine Pease
Osborne, Elwood Noyes
Osgood, Mary Elizabeth
Packard, Hilda M.
Packard, Oveid
Page, Harriet Evangeline
Parker, Erle St. John
Parker, John Huff
Parsons, Frederick Henry
Patten, Clyde Gowell
Paul, Josephine Frances
Feabody, Arvilia Drew
Peakes, Arthur Lambert
Pendleton, Emily
Perkins, Arthur Chester
Peterson, Bernese Loretta, M.A.
Kansas, 1914

Peterson, Herbert Minty
Pettengill, Herbert Donham
Pickard, Morita Jessie
Pierce, John Alvin
Porter, Frances Hope
Pressey, Harold Elbert
Proudman, Donald Walter
Putnam, Lilian, B.A.
Wellesley, 1912

Quincy, Sara Louise
Quint, Kenton Emerson
Race, Alfred Weston
Reed, Reginald Lee
Rex, Millicent Barton, B.A.
Wellesley, 1924

Ring, Elizabeth, B.A.
Maine, 1923

Bangor
Palermo

Rockland
Caribou

Norway
Bangor
Dexter
Holyoke, Mass.
Rochester, N. Y.
Long Island, N. Y.
Fairfield
Milford
Norridgewock
Dexter
Orono
Danforth
Kingston, R. I.
Franklin Park, Mass.
Topsham
Camden
Portland
Milo
Dark Harbor
Monroe
Orono

Devon, Conn.
Island Falls
Bangor
Orono
Orono
Bangor
New Britain, Conn.
Cliftendale, Mass.

Bridgton
North New Portland
Guilford
Portland
Reading, Pa.
Orono
Robinson, Verner Floyd
Rogers, Emily May
Rose, Mabel Harris, B.A.
Smith, 1897
Rossomano, Liberata M., B.A.
Hunter, 1916
Royal, Erma Lucile
Royal, Florence Taylor, B.A.
Maine, 1911
Royal, Thayer Levenseller
Ruddy, John Joseph Francis
Russell, Annie A.
Salley, Florence Ulmer, B. A.
Maine, 1921
Sarvin, Ethel
Schwartz, Nathan James
Schmidt, Margaret Ann
Scott, Richmond Loring
Shaw, Grace Eloise
Shibles, Perry Foster
Sholes, Bertha Mabel
Smith, John Harold
Smith, Thelma Leighton
Soderberg, Frederic Arnott
Stairs, Ina Eugina
Starrett, Jasper Ellis
Stevens, Hollice Linwood
Steward, Raymond Benson, B.S.
Maine, 1917
Stone, Roger Bessom
Strom, Tillie
Stuart, Ervin, B.A.
Maine, 1923
Sturtevant, Arthur Leroy, B.S.
Maine, 1912
Sweatt, Athalie Pearl
Sylvestor, Calista Elizabeth
Sylvestor, Dorothy Sproule
Tapley, Emery Wasson
Tarbell, John Weatherbee
Taylor, Charles Grandison
Thompson, Herbert Lewis, B.Ch.E.
Northeastern, 1923
Tibbetts, Sylvia Elizabeth
Tripp, Lena Muriel

Lubec
Montclair, N. J.
Houlton
Corona, N. Y.
Cleveland, Ohio
Hampden Highlands
East Holden
Fitchburg, Mass.
Quincy, Mass.
Bangor
Southboro, Mass.
Portland
Guthrie, Oklahoma
Farmington
Caribou
Thorndike
Mattawamkeag
Bangor
Bangor
Stillwater
Bangor
Harrington
Portland
Swampscott, Mass.
Bangor
Monson
Brownville Jct.
Andover
Jefferson
Jefferson
West Brooksville
Bangor
Foxboro, Mass.
Norwood, Mass.
Vanceboro
Ellsworth
Van Slyke, Alla Alida  Avenel, N. J.
Varney, Lawrence Brooks, B.S.  Eastport
Maine, 1922
Von Tornoro, Georgiana Josephine  New York, N. Y.
Wagner, Mildred  Berlin, N. H.
Waldron, James Neal  Dexter
Wallace, Verna Mertice  Crawford
Warren, Harold Howard  Biddeford
Waterhouse, Mary  Bangor
Waterman, Arthur, Jr.  Bangor
Waterman, Faith Doris  Bangor
Waterman, Julian  Lincoln
Weatherbee, Francis Eugene  Houlton
Webb, Fred DeLancey  Randolph
Webber, Harold Clark  Solon
Weeks, Donald Ross, B.S.  Bangor
Maine, 1921
Weiler, Arleen  Quincy, Mass.
Welch, Caroline  Freedom
Wentworth, Wilbert Estranda  Old Town
Weymouth, Albert Edward, B.A.  Bethel
Maine, 1923
Wight, Vivian Adelia  Rockland
Winslow, Daphne  Mt. Kisco, N. Y.
Wohlfel, Martha Blanche, B.A., M.A., M.Pd. Hunter, 1913; Columbia, 1916;
New York University, 1917
Woodman, Jocelyn, B.A.  Bailey Island
Cornell University, 1919
Woodworth, Nancy MacDowell  New York, N. Y.
Wray, Ada Drusilla  Brewer
Young, Kathleen Mary  Milbridge
Young, William Leroy  Winterport
General Summary

FACULTY

President 1
Deans and Directors 7
Professors 37
Associate Professors 18
Assistant Professors 22
Instructors 42
Assistants 7
Agricultural Extension Service Staff 40
Agricultural Experiment Station Staff 18

Total 192

BY DIVISIONS

President 1
College of Agriculture 23
College of Arts and Sciences 57
College of Technology 35
Agricultural Extension Service Staff 40
Agricultural Experiment Station Staff 19
Officers common to all colleges 17

Total 192

STUDENTS

Total Men Women
Graduate Students 70 41 29
Seniors 224 165 59
Juniors 254 209 45
Sophomores 292 221 71
Freshmen 360 283 77
Specials 30 19 11
Students Conditioned for Admission 29 23 6
Two Year School Course in Agriculture
  First Year 4
  Second Year 1

5 5 0

Summer Term

291 139 152

Total, omitting duplicates
in Summer Term 1441 1033 408
## CLASSIFICATION BY COLLEGES

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## CANDIDATES FOR DEGREES

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## CLASSIFICATION BY RESIDENCE

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<td>Sagadahoc</td>
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<td>Waldo</td>
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<td></td>
<td>Washington</td>
</tr>
<tr>
<td></td>
<td>York</td>
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</table>

| Maine               | 1213                |
| Massachusetts       | 114                 |
| New York            | 27                  |
| Connecticut         | 25                  |
| New Hampshire       | 17                  |
| New Jersey          | 16                  |
| Rhode Island        | 4                   |
General Summary

FACULTY

President 1
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Agricultural Experiment Station Staff 18

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Total 192

STUDENTS

<table>
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<tr>
<th>Graduates</th>
<th>Total</th>
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<th>Women</th>
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Two Year School Course in Agriculture

First Year 4
Second Year 1

5 5 0

Summer Term

291 139 152

Total, omitting duplicates in Summer Term

1441 1033 408
### GENERAL SUMMARY

#### CLASSIFICATION BY COLLEGES

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<th>College of Technology</th>
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| Total             | 1441                   | 1033                        | 408                  |

#### CANDIDATES FOR DEGREES

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<td>College of Technology</td>
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| Total             | 1270 |

#### CLASSIFICATION BY RESIDENCE

Maine, by counties:

- Androscoggin: 27
- Aroostook: 79
- Cumberland: 139
- Franklin: 17
- Hancock: 67
- Kennebec: 83
- Knox: 36
- Lincoln: 22
- Oxford: 60
- Penobscot: 397
- Piscataquis: 61
- Sagadahoc: 20
- Somerset: 42
- Waldo: 29
- Washington: 68
- York: 66

Maine: 1213
Massachusetts: 114
New York: 27
Connecticut: 25
New Hampshire: 17
New Jersey: 16
Rhode Island: 4
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**Total:** 1441
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