1923

Catalog of the University of Maine, 1923-24

University of Maine

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Calendar

FALL SEMESTER, 1923

September 7-11, Entrance examinations.
September 11, Tuesday, University opens for freshmen.
September 14-18, Arrearage examinations.
September 18, Tuesday, Registration for upper class students 8 A.M. to 5 P.M.
September 19, Wednesday, Registration 8 A.M. to 11 A.M. First chapel 11 A.M.
September 19, Wednesday, Classes begin at 1.30 P.M.
November 29, Thursday, Thanksgiving Day, a holiday.
December 14, Friday, Christmas Recess begins 5.05 P.M.

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January 2, Wednesday, Christmas Recess ends 8 A.M.
February 1, Friday, Fall Semester ends 5.05 P.M.

SPRING SEMESTER, 1924

February 2, Saturday, Registration 8 A.M. to 5 P.M.
February 4, Monday, Spring Semester begins 8 A.M.
February 9, Saturday, Winter Carnival, a holiday.
March 28, Friday, Spring Recess begins 5.05 P.M.
April 8, Tuesday, Spring Recess ends 8 A.M.
May 30, Friday, Memorial Day, a holiday.
June 3-6, Entrance Examinations.
June 7, Saturday, Alumni Day; Class Day.
June 8, Sunday, Baccalaureate Address.
June 9, Monday, Commencement, 9.30 A.M.

SUMMER SESSION

June 30, Monday, Registration, 8 A.M. to 5 P.M.
July 1, Tuesday, Classes begin, 7.30 A.M.
July 4, Friday, Independence Day, a holiday.
August 8, Friday, Summer Session ends.
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 8 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

Hon. Frank Edward Guernsey
   Term expires May 31, 1924

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, 1924

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
   Executive Committee, Strickland, Buck, Draper

Bangor

Fort Fairfield

Dover-Foxcroft

Houlton

Belfast

Bangor

Portland

Bangor

Augusta
Officers of Administration

OF THE UNIVERSITY

Clarence Cook Little, President. 2A Alumni Hall; Campus*
James Norris Hart, Dean. 5 Alumni Hall; 123 Main Street
Caroline Colvin, Dean of Women. Library; University Inn
George Davis Chase, Dean of Graduate Students. 15 Wingate Hall; 143 Main Street
Charles John Dunn, Treasurer Emeritus. 51 Bennoch Street
Frederick Shaw Youngs, Treasurer. 4 Alumni Hall; 35 Blackstone Street, Bangor
James Adrian Gannett, Registrar. 2 Alumni Hall; 166 Main Street
Edward Havener Kelley, Comptroller. 1 Alumni Hall; 13 Pond Street
Irving Pierce, Accountant. 4 Alumni Hall; 34 Sixth Street, Old Town
Addie Matilda Weed, 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. 200 Aubert Hall, 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, 51 North Main St.

OF THE DEPARTMENTS

Agronomy. Professor Simmons, 26 Winslow Hall, 4 Gilbert Street
Agricultural Education. Professor Hill, 38 Winslow Hall, 162 College Road
Animal Industry. Professor Corbett, 14 Winslow Hall, Campus
Bacteriology and Veterinary Science. Professor Russell, 13 Winslow Hall, 85 Main Street

*Offices and residences
OFFICERS OF ADMINISTRATION

**Biological and Agricultural Chemistry.** Professor Merrill, 15 Winslow Hall, 178 Main Street

**Biology.**

**Biology (Agricultural Experiment Station).** Professor Gowen, Holmes Hall, 33 Mill 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, University Inn

**Economics and Sociology.** Professor Ashworth, 10 Coburn Hall, 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, 10 Estabrooke Hall, 29 Park Street

**Entomology (Agricultural Experiment Station).** Professor Patch, Holmes Hall, College Road

**Farm Management.** Professor Simmons, 26 Winslow Hall, 4 Gilbert Street

**Forestry.** Professor Briscoe, 24 Winslow Hall, 380 College Road

**French.** Professor Segall, 14 Fernald Hall, 50 Main Street

**Geology.** Professor Merrill, 15 Winslow Hall, 178 Main Street

**German.** Professor Drummond, 14 Fernald Hall, 61 Bennoch Street

**Greek Language and Literature.** Professor Huddilston, 28 Library, 193 Main Street

**History.** Professor Colvin, 11 Coburn Hall, University Inn

**Home Economics.** Associate Professor McGinnis, 4 The Maples, North Hall

**Horticulture.** Professor Sweetser, 34 Winslow Hall, 80 Forest Avenue

**Latin.** Professor Chase, 15 Wingate Hall, 143 Main Street

**Mathematics and Astronomy.** Professor Hart, 5 Alumni Hall, 123 Main 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, 90 North Main Street

**Music.** Director Sprague, 15 Wingate Hall, 217 Union Street, Bangor

**Philosophy.** Professor Taylor, 23 Wingate Hall, University Inn

**Plant Pathology (Agricultural Experiment Station).** Professor Morse, Holmes Hall, 356 College Avenue

**Physical Education.** Professor Kanaly, Alumni Hall, College Avenue
Physics. Professor Stevens, 200 Aubert Hall, 175 Main Street
Poultry Husbandry. Professor Corbett, 14 Winslow Hall, Campus
Psychology. Professor Halverson, 23 Wingate Hall, 104 North Main Street
Public Speaking. Associate Professor Bailey, 1 Estabrooke Hall, 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
Doris Frances Twitchell, Assistant to the Superintendent of Balentine Hall
*Faculty of Instruction*

Clarence Cook Little, President
  B.A., Harvard, 1910; M.S., 1912; S.D., 1914
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 Term.
  B.S., Rochester, 1885; M.S., 1888, and Syracuse, 1889; LL.D., Rochester, 1907; Litt.D., Maine, 1922
John Homer Huddilston, 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
  ________________________, Professor of Biology.
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, JR., 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 BRAUTLECHT, 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

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

James Adrian Gannett, Registrar.
  B.S., Maine, 1908
Irving Hill Blake, Associate Professor of Biology.
  B.A., Bates, 1911; M.A., Brown, 1912
Benjamin Calvin Kent, Associate Professor of Mechanical Engineering.
  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 Technology, 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
François Joseph Kueny, Associate Professor of French.
  B. ès L., University of Paris, 1897; L. ès L., Besançon, 1901
Charles Howard Batchelder, Associate Professor of Biology.
  B.A., New Hampshire State College, 1913; M.S., 1915
Mark Bailey, Associate Professor of Public Speaking.
  B.A., Yale, 1915; M.A., Michigan, 1917
Walter Frank Adams, Associate Professor of Military Science and Tactics.
  B.S. in E.E., Norwich, 1912
  Captain of Infantry, U. S. Army
Andrew Jackson Nichols, Associate Professor of Military Science and Tactics.
  First Lieutenant of Infantry, U. S. Army
Harold Walter Leavitt, Associate Professor of Civil Engineering.
  B.S., Maine, 1915; C.E., 1918; M.S., 1921

*By direction of the War Department the officer in charge of Military Training is designated as Professor; the other officers as Associate Professors.
*LESTER SAUNDERS HILL, Associate Professor of Mathematics.
  B.A., Columbia, 1911; M.A., 1913

JAMES WELLINGTON WHALER, Associate Professor of English.
  B.A., Princeton, 1911; M.A., 1917

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

JOHN WILLIAM DRAPER, Associate Professor of English.
  B.A., New York University, 1914; M.A., 1915; M.A., Harvard, 1918;
  Ph.D., 1920

NOAH ROSENECKER BRYAN, Associate Professor of Mathematics.
  B.A., Pennsylvania State, 1913; M.A., Pennsylvania, 1918; Ph.D.,
  Columbia, 1921

LEWELLYN MORSE DORSEY, Associate Professor of Animal Industry.
  B.S., Maine, 1916; M.S., 1923

ESTHER McGINNIS, Associate Professor of Home Economics, and Acting
  Head of the Department.
  B.Sc., Ohio State, 1915; M.S., Columbia, 1923

JOSEPH LOUIS READY, Associate Professor of Military Science and Tactics.
  Captain of Infantry, U. S. Army

HARRY WOODBURY SMITH, Assistant Professor of Biological and Agricultu-
  ral Chemistry.
  B.S., Maine, 1909; M.S., 1922

ADELBERT WELLS SPRAGUE, Director of Music.
  B.S., Maine, 1905; M.A., Harvard, 1907

BENJAMIN COE HELMICK, Assistant Professor of Agronomy.
  B.S., Iowa, 1914; M.S., Cornell, 1915

WALTER DAVIS EMERSON, Assistant Professor of Mechanical Engineering.
  B.S., Maine, 1916; M.E., 1920

LEO HENRY DAWSON, Assistant Professor of Physics.
  B.A., Clark College, 1912; M.A., Clark University, 1914

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

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.

*On leave of absence
WALTER JOSEPH CREAMER, Assistant Professor of Electrical Engineering and Assistant to the Dean of the College of Technology.  
B.S., Maine, 1918; E.E., 1921; B.A., 1923

PLATT ASHLEY PEARSALL, Assistant Professor of Chemistry.  
B.S., Virginia Polytechnic Institute, 1915; M.S., Maine, 1923

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

ELMER REEVE HITCHNER, Assistant Professor of Bacteriology.  
B.S., Pennsylvania State, 1915; M.S., 1916

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

HAROLD FRANCIS WATSON, Assistant Professor of English.  
B.A., New York University, 1918; M.A., 1920

AARON BLESS, Assistant Professor of Physics.  
B.S., Temple University, 1918; M.A., Maine, 1921

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

TERESA HUESMAN, Assistant Professor of Physical Training for Women.

JOSEPH THOMAS MURPHY, Assistant Professor of Physical Training.  
B.S., Dartmouth, 1920

PAUL DECOSTA BRAY, Assistant Professor of Chemistry.  
B.S., Maine, 1914; Ch.E., 1918

EVELYN BUCHAN, Assistant Professor of Sociology.  
Ph.B., Chicago, 1920; M.A., 1922

PEARL STUART GREENE, Assistant Professor of Home Economics.  
B.A., Northwestern, 1909; B.S., Lewis Institute, Chicago, 1914; M.A., Columbia, 1923

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

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 and Italian.  
B.A., Maine, 1910; M.A., 1923

Everett Joshua Felker, Instructor in Civil Engineering.
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, Instructor in Military Science and Tactics.  
  Sergeant, U. S. Army.

Frank Swan Beale, Instructor in Mathematics.
  B.S., Maine, 1921; M.S., 1923

Marion Katharyn Bragg, Instructor in English.
  B.A., Maine, 1921

Edward Choate Brown, Instructor in Mathematics.
  B.A., Harvard, 1918; M.A., Maine, 1923

Howard Lloyd Flewelling, Instructor in English.
  B.A., Dartmouth, 1921

Walter William Purdy, Instructor in Chemistry.
  B.S., Akron, 1919

Everett Louis Roberts, Instructor in Electrical Engineering.
  B.S., Maine, 1920

George Mervil Seeley, Instructor in Chemistry.
  B.A., Bates, 1913

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

Richard Eugene Downing, Instructor in Electrical Engineering.
  B.S., Massachusetts Institute of Technology, 1922

Edwin Dillmon Hull, Instructor in Biology.
  B.S., Chicago, 1914; M.S., Chicago, 1916

Leslie George Jenness, Instructor in Chemistry.
  B.S., New Hampshire, 1920

Florence Julia Morrill, Instructor in Home Economics.
  B.S., Maine, 1921

Francis Doolittle Wallace, Instructor in Public Speaking.
  B.A., Cornell, 1921

Helen Woodbridge, Instructor in Biology.
  B.A., Mount Holyoke, 1920; M.S., Washington, 1922

*On leave of absence.
CARL ALONZO MENDUM, Instructor in English.
  B.A., Harvard, 1918; M.A., 1923
EDWARD BAYS, Instructor in Military Science and Tactics.
ALWARD EMBURY BROWN, Instructor in Physics.
  B.A., Albion, 1917; B.S. (Electrical Engineering) Michigan, 1918
SHERMAN WILLIAM BROWN, Instructor in Spanish.
  B.A., Oberlin, 1922
ALEXANDER BRAUN CUTLER, Instructor in Chemistry.
  B.S., Maine, 1923
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
EDWARD 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
ERIC STILES HOPE, Instructor in Mechanical Engineering.
  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
HOBART ERNEST ROWLANDS, Instructor in English.
  B.A., Ohio State, 1922; M.A., 1923
DORIS FRANCES TWITCHELL, Instructor in Sociology.
  B.A., Maine, 1923

HERBERT BURR ABBOTT, Mechanician in the Mechanical Engineering Department.
LEO DAY, Assistant in State Highway Laboratory.
THEODORE SHIRLEY CURRIER, Assistant in History and Government.
DOROTHY CLAIRE THOMPSON, Assistant in the Library.
  B.S., Simmons, 1923
ALBERT B CLARK, Lecturer on Christian Ethics.
  B.A., Rochester, 1905
Faculty of Extension Service

(COLLEGE OF AGRICULTURE)

Leon Stephen Merrill, Director.
   M.D., Bowdoin, 1889; D.Sc., Maine, 1922
Raymon Neale Atherton, County Agricultural Agent, Androscoggin and Sagadahoc Counties.
   B.S., Maine, 1920
Verne Curtis Beverly, County Agricultural Agent, Aroostook County.
   B.S., Maine, 1920
Harry Elmer Bickford, County Agricultural Agent, Hancock County.
Helen Louise Clark, Home Demonstration Agent, Kennebec County.
   B.S., Connecticut State, 1919
Edna Mansfield Cobb, Clothing Specialist.
Della May Connor, Home Demonstration Agent, Cumberland County.
Helen Packard Cooper, Home Demonstration Agent, Androscoggin and Sagadahoc Counties.
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
Richard Boulsby Dodge, County Agricultural Agent, Penobscot County.
   B.S., Maine 1917
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
William Melvin Gray, County Agricultural Agent, York County.
   B.S., Maine, 1912
Marion Grace Hare, Home Demonstration Agent, Somerset County.
Claire Herrick, Home Demonstration Agent, Knox-Lincoln Counties.
   B.S., Simmons, 1921
FLORA ADELAIDE HOWARD, Home Demonstration Agent, Piscataquis County.
B.S., Maine 1917

ALICE EVELYN HOWE, Home Demonstration Agent, Hancock County.

MARY ELEANOR JACKSON, Home Economics Extension Specialist.
B.S., Maine, 1920

ROSALIND MAY JEWETT, 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.

RAYMOND HARWOOD LOVEJOY, County Agricultural Agent, Oxford County.
B.S., Maine, 1921

ARRA SUTTON MIXTER, Assistant State Club Leader.

ESTELLE NASON, Home Demonstration Agent, Waldo County.
B.S., Maine, 1922

JAMES HAYES PULSIFER, County Agricultural Agent, Franklin County.

DONALD WINSLOW REED, County Agricultural Agent, Washington County.
B.S., Maine, 1922

WILFRED SHERMAN ROWE, County Agricultural Agent, Cumberland County.

MARTHA AMANDA SANBORN, Home Demonstration Agent, Oxford County.
B.S., Maine, 1923

LESTER HALE SIBLES, 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.

HELEN SPAULDING, Home Demonstration Agent, York County.
B.S., Simmons, 1913

MARJORIE PRINCE SYMONDS, Home Demonstration Agent, Franklin County.

RICHARD FOSTER TALBOT, Specialist in Dairy Husbandry.
B.S., Maine, 1907

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.

JAMES MONROE BARTLETT, Chemist.
  B.S., Maine, 1880; M.S., 1883

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

MARGORIE EUNICE GOOCH, Assistant in Biology.
  B.S., Maine, 1919; M.S., 1922

JOHN WHITTEMORE GOWEN, 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.
Committees of the Faculty

1923-24

Administration—The President and the Deans
Alumni Relations—Gannett, Emerson, Hart, Sweetser, H. P.
Athletics—Grover, Halverson, Lyon, Pollard, Sprague, E. H.
Auditing—Merrill, L. H., Helmick, Kueny, Youngs
Chapel—Carrington, Buzzell, Ellis, Halverson, Peterson, Sprague, A. W.
Health—Hitchner, Glover, Huesman, Kanaly, McGinnis, Russell
Honors—Sweetser, H. P., Brann, Carrington, Chadbourne, Draper, Kent
Library—Walkley, Ashworth, Draper, Huddilston, Segall, Simmons, Weston
Military—Glover, Boardman, Dorsey, Wallace, S. M.
Physical Training—Kanaly, Brice, Corbett, Halverson, Huesman, Kent, Murphy, Taylor, Wallace, S. M.
Publicity—Gannett, Batchelder, Crossland, Pollard
Rules—Peterson, Corbett, Fitch, Smith, Sweetser, W. J., Weston
Schedule—Weston, Gannett, The Deans
Secondary School Relations—Hart, Chase, Drummond, Ellis, Hill, H. S., Pollard
Social Affairs—Toelle, Ashworth, Batchelder, Buzzell, Carrington, Colvin, Huesman, Sprague, E. H., Taylor, Weston
Student Activities—(Non-Athletic)—Sweetser, W. J., Bailey, Briscoe, Colvin, Dorsey, Ellis, Huesman, Pollard, Sprague, A. W., Walkley, Wallace, S. M., Weston, Youngs
Students' Use of English—Ellis, Boardman, Briscoe, Chase, Creamer, Drummond, Hill, H. S., Merrill, L. S., Stevens, Weston
Women Students—Colvin, Bowler, Buzzell, Chadbourne, Huesman, McGinnis
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 in secondary schools and for college students who desire to take advan-
tage 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, 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.

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 and has recitation rooms for the Departments of History and Economics and Sociology. It was named for ex-Governor Abner Coburn, of Skowhegan, a former president of the Board of Trustees, and benefactor of the university.

Estabrooke Hall.—This building is used for the Departments of English and Public Speaking, and was named for the late Horace Melvyn Estabrooke, Professor of English from 1891 to 1908. It contains four recitation rooms, rooms for consultation purposes, and offices for the members of the departments.

Fernald Hall.—This is the oldest building on the campus and was erected for the Department of Chemistry. It now contains the Departments of French, 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.
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, and includes recitation rooms and offices for the Departments of Latin, Psychology, and Music.

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. In the rear of this building is located the stock judging pavilion, which is an octagonal structure, having a seating capacity of 600.

Dairy Building.—This building contains various rooms appropriate for the Department of Dairy Husbandry. It is supplied with necessary appliances for teaching methods of handling milk, cream, butter, and cheese.

Farm Buildings.—These comprise two large dairy barns, a horse barn, a hay storage barn, two tool houses, and a piggery. The farm of the university is composed of parcels of land aggregating 473 acres, of which 120 acres are under cultivation.

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.

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.

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 Gamma Delta, Phi Kappa Sigma, Sigma Alpha Epsilon, Theta Chi, Sigma Nu, and the PhiEta Kappa Society have houses on the campus. The local chapters of Lambda Chi Alpha, Phi Epsilon Pi, and Sigma Phi Sigma own houses adjoining the campus on College Road. The local chapters of Alpha Tau Omega and Sigma Chi own houses on North Main Street. 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 LIBRARIES

The university libraries contain (June 30, 1923) over 73,000 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 Departments of Physics, Education, and English, 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.

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, 2.30 to 5.00 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 American nations. Meetings with programs in Spanish are held every three 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.

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 twenty-seven 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.

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 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.

PRACTICAL HUSBANDRY.—This is a monthly magazine published under the direction of the Agricultural Club. It is devoted to practical and technical agriculture.

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.
DEGREES

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.

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.

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

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</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.

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.

<table>
<thead>
<tr>
<th>Deposit</th>
<th>Residents of Maine</th>
<th>Non-Residents of Maine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$ 62.50</td>
<td>$ 97.50</td>
</tr>
<tr>
<td>Board and Room</td>
<td>135.00</td>
<td>135.00</td>
</tr>
<tr>
<td>Key Deposit (men only)</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Special Assessment for</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Athletics and Debating</td>
<td>3.75</td>
<td>3.75</td>
</tr>
<tr>
<td></td>
<td>$206.25</td>
<td>$241.25</td>
</tr>
</tbody>
</table>
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 $25.00 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.

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 rep­
resent the College of Technology and the other two shall be selected by
the Department of English.

Pittsburg 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 Bruns-
wick, a member of the class of 1873, deposited with the university treas-
urer 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 col-
lege 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 deport-
ment 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 sopho-
more class to be determined by the President and the faculty. This schol-
arship 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 Com-
mittee 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 Far-
lington. The gift amounts to $1000 and provides a scholarship under con-
ditions 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 Col-
lege of Agriculture who attains the highest rank in studies and deport-
ment 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 Society Scholarship, one hundred dollars, is to be contributed pro rata by the individual members of the Senior Skulls, Junior Masks, and Sophomore Owls.

1. This 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 "M" 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 in 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 Prize. In accordance with the national policy of the fraternity, Chi Omega offers a twenty-five dollar prize to any woman in the university who receives the highest rank in the Economics and Sociology Department.

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 Menorah Prize, ten dollars, the gift of the Maine Menorah Association, is awarded to the student who presents the best essay on any Jewish subject.

These essays should be presented to the Head of the Department of English previous to May 1.

Junior Exhibition Prizes, fifteen dollars each, are awarded to the members of the junior class who deliver the best orations at the junior exhibition. One prize is awarded to the man receiving the first rank in competition with the men of the junior class, and one prize awarded to the woman receiving first rank in competition with the women of the junior class. In the award of these prizes regard is given to thought, style, and delivery. Copies of these orations must be deposited with the Registrar before February 1.

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.

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, 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

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 16-21, 1924. 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 28 and must be accompanied by the examination fee of $9.00.

ADMISSION OF GRADUATES FROM CLASS A SCHOOLS IN MAINES

Graduates from Maine high schools and academies placed by the State Superintendent of Schools in Class A may be admitted upon their school records, 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 the elective subjects to make a total of fourteen and a half units.

In 1922 and 1923 candidates whose school grades averaged less than five units above their school pass-mark were not admitted on their record, and those whose averages were five units and less than ten above the pass-mark were admitted on trial. This practice will be followed in 1924. It is also expected that intelligence tests and personal interviews will be used in connection with the school record. Details regarding such changes in methods of admission will be furnished principals and candidates.

The school record of the candidates must be certified by the principal, upon blanks furnished by the university, and should be submitted before August 1.

ADMISSION BY CERTIFICATE FROM SCHOOLS OUTSIDE OF MAINES

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

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

Total ................................................................. 10 units

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

*For admission to the Home Economics curriculum, two units in mathematics acceptable to the Committee on Admission are required.
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 those listed.
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>
<td>3</td>
</tr>
<tr>
<td>French</td>
<td>2</td>
<td>4</td>
<td>2, 3, or 4</td>
<td>2, 3, or 4</td>
</tr>
<tr>
<td>German</td>
<td>2</td>
<td>4</td>
<td>2, 3, or 4</td>
<td>2, 3, or 4</td>
</tr>
<tr>
<td>Greek</td>
<td>2</td>
<td>3</td>
<td>2 or 3</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Latin</td>
<td>2</td>
<td>4</td>
<td>2, 3, or 4</td>
<td>2, 3, or 4</td>
</tr>
<tr>
<td>Spanish</td>
<td>2</td>
<td>3</td>
<td>2 or 3</td>
<td>2 or 3</td>
</tr>
<tr>
<td>Algebra (Elem.)</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Plane geometry</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Solid geometry</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>Algebra (Adv.)</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
</tr>
<tr>
<td>History</td>
<td>1</td>
<td>4</td>
<td>1, 2, 3, or 4</td>
<td>1, 2, 3, or 4</td>
</tr>
<tr>
<td>Civics</td>
<td>1/2</td>
<td>1</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Economics</td>
<td>1/2</td>
<td>1</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
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<td>Biology</td>
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<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Botany</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry</td>
<td>1</td>
<td>2</td>
<td>1 or 2</td>
<td>1 or 2</td>
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<tr>
<td>Physics</td>
<td>1</td>
<td>2</td>
<td>1 or 2</td>
<td>1 or 2</td>
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<tr>
<td>Physiography</td>
<td>1/2</td>
<td>1</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Physiology</td>
<td>1/2</td>
<td>1</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Zoology</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Agriculture</td>
<td>1</td>
<td>4</td>
<td>Not over two units in all of these</td>
<td>Not over four units in all of these</td>
</tr>
<tr>
<td>Domestic Science and Art</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Drawing</td>
<td>1/2</td>
<td>2</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Manual Training</td>
<td>1/2</td>
<td>2</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Commercial Subjects</td>
<td>1/2</td>
<td>4</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Music</td>
<td>1/2</td>
<td>1</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
<tr>
<td>Bible Study</td>
<td>1/2</td>
<td>1</td>
<td>1/2 or 1</td>
<td>1/2 or 1</td>
</tr>
</tbody>
</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 of 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 Hitchcock's or Brook's rhetorics.

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.
FR·CH.—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; Mairet, la Tâche du petit Pierre; Mérimée, Colomba; 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, *Graziella*; 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 rules of syntax and word order; (4) abundant easy exercises designed
not only to fix in mind the forms and principles of grammar but also to
cultivate readiness in reproducing natural forms of expression; (5) the
reading of 75 to 100 pages of graduated texts from a reader, with con-
stant 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) ac-
companying practice, as before, in translating into German easy varia-
tions 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; Baumbach, Die Nonna and Der Schwiegerson; Gerstäcker, Germelshausen; Heyse, L’Arabia; Das Mädchen von Treppi; and Anfang und Ende; Hillern, Höher als die Kirche; Jensen, Die braune Erle; Leander, Traumereien 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
Weiberfeind, and Günstige Vorzeichen; Ela, Er ist nicht eifersüchtig; Wichert, An der Majorsecbe; Wilhelmi, 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 Ander-
sen, Märchen or Bilderbuch, or Leander, Traumereien, 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 Fröhlichkeit von
Gemperlein; Freytag, Die Journalisten and Bilder aus der deutschen Ver-
gangenheit, 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, Gustaw Adolphs Page; Moser, Der Bibliothekar; Riehl, Novellen, Burg Neideck, Der Fluch der Schönheit, Der Stumme Ratsherr, Das Spielmanaskind; Rosegger, Waldheimat; Schiller, Der Neffe als Onkel. Der Geisterschaer, Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen; Scheffel, Der Trompeter von Säckingen; Uhland’s Poems; Wildenbruch, Das edle Blut. A good selection would be: (1) one of Riehl’s novelettes; (2) one of Freytag’s “pictures;” (3) part of Undine or Der Geisterseher; (4) a short course of reading in lyrics and ballads; (5) a classical play by Schiller, Lessing, or Goethe.

The examinations of the College Entrance Certificate Board in elementary German will be accepted for 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: A collection of easy short stories and lyrics, carefully graded; Marmol, Amalia; Pérez Escrich, Fortuna; Ramos Carrión and Vital Aza, Zaragüeta; Palacio Valdés, José; Pedro de Alarcón, El Capi-
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; Baumback, Die Nonna and Der Schwiegersohn; Gerstäcker, Germelshausen; Heyse, L’Arabbiata, Das Mädchen von Treppi, and Anfang und Ende; Hillern, Höher als die Kirche; Jensen, Die braune Erica; Leander, Träumercien 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 Proess, Der Weiberfeind, and Günstige Vorseichen; Elz, Er ist nicht eiersüchtig; Wichert, An der Majorsecke; Wilhelmi, 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, Traumercien, 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, Baumback, or Seidel, last Der Proess.

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 Friechern von Gemperlein; Freytag, Die Journalisten and Bilder aus der deutschen Ver-
gangenheit, 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 Adolphe Page; Moser, Der Bibliothekar; Riehl, Novellen, Burg Neideck, Der Fluch der Schönheit, Der Stumme Ratsherr, Das Spielmannskind; Rosegger, Waldheimat; Schiller, Der Neffe als Onkel, Der Geistersehr, Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen; Scheffel, Der Trompeter von Säkkingen; Uhland's Poems; Wildenbruch, Das edle Blut. A good selection would be: (1) one of Riehl's novelettes; (2) one of Freytag's "pictures;" (3) part of Undine or Der Geistersehr; (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: A collection of easy short stories and lyrics, carefully graded; Marmol, Amalia; Pérez Escrich, Fortuna; Ramos Carrión and Vital Aza, Zaragüeta; Palacio Valdés, José; Pedro de Alarcón, El Capi-
Venmo; 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, 103-312 (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
equations; problems depending on quadratic equations; theorem for positive integral exponents; the formulas
the sum of the terms of arithmetical and geometrical occupations.

At pupils are required throughout the course to solve such involve putting questions into equations. Some of
ould be chosen from mensuration, from physics, and

The use of graphical methods and illustrations, in addition with the solution of equations, is also expected.

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

-The usual theorems and constructions of good textbooks on planes and lines in space; the properties prisms, pyramids, cylinders, and cones; the sphere shallow.
tán 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**

United States History.—A year's work as given in the average high school.

Ancient History.—A year's work as given in the average high school.

English History.—A year's work as given in the average high school.

Medieval and Modern.—A year's work as given in the average high school.

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

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

Sciences

*Biology.—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

*Chemistry.—The necessary ground is covered by the following text-books: Brownlee and others, Hessler and Smith, McPherson Henderson's First Book, Newell, and Black and Conant.

Physical Geography (Physiography).—A satisfactory preparation may be obtained from either Appleton's or Tarr's Physical Geography.

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

*The work in these sciences must include certified note-books exhibiting the results of experimental work performed by the student. In physics forty exercises are required and in chemistry fifty exercises. These note-books should be presented at the examination. In the case of students certified in the sciences, the principal is expected to pass upon the quality of the note-book rather than send them to the University.
The requirements in botany and zoology are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the board. The note-book should include properly labeled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

**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, 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 1924 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 the university 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, Latin, Mathematics and Astronomy, 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 degree 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

Herbert Staples Hill, B.A., Professor of Agricultural Education
Herman Pittee Sweetser, B.S., Professor of Horticulture
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
Esther McGinnis, M.S., 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
Elmer Reeve Hitchner, M.S., Assistant Professor of Bacteriology
Leigh Philbrook Gardner, M.S., Assistant Professor of Animal Industry
Pearl Stuart Greene, M.A., Assistant Professor of Home Economics
Harold Clayton Swift, B.S., Instructor in Agronomy
Walter Wentworth Wiggin, B.S., Instructor in Horticulture
Edwin Dillmon Hull, M.S., Instructor in Biology
Florence Julia Morrill, B.S., Instructor in Home Economics
Helen Woodbridge, M.S., Instructor in Biology

Dwight Burgess Demeritt, M.F., Instructor in Forestry
Howe Wiggin Hall, B.S., Instructor in Animal Industry

GENERAL INFORMATION

The College of Agriculture comprises the departments of Agricultural Education, Agronomy, Animal Industry, Biological and Agricultural
Chemistry, Biology, Farm Management and Agricultural Engineering, 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, embracing 150 college hours each, is required for the students pursuing a four-year curriculum in the College of Agriculture. On completion of such a curriculum, the student will receive the degree of Bachelor of Science (B.S.).

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Agronomy 11, 2 †2</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1 or 3</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 5 or 7, †4</td>
<td>2</td>
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<tr>
<td>Drawing 9, *3</td>
<td>1</td>
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<tr>
<td>English 1</td>
<td>3</td>
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<tr>
<td>Military 1, †3</td>
<td>1½</td>
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<tr>
<td>Physical Training 1</td>
<td>½</td>
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<tr>
<td>Poultry Husbandry 1, 2 †2</td>
<td>3</td>
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<tr>
<td>Zoology 1, 2 †4</td>
<td>4</td>
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</tbody>
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### Curriculum for Students Specializing in Agricultural Education

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## Curriculum for Students Specializing in Animal Industry

### ANIMAL HUSBANDRY

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*If not already taken in the sophomore year.
### DAIRY HUSBANDRY

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*If not already taken in the sophomore year.
Curriculum for Students Specializing in Horticulture

**JUNIOR YEAR**

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### CURRICULUM IN BIOLOGY

**JUNIOR YEAR**

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**If not already taken in the sophomore year.**

**Must be taken following Horticulture 20.**
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<td>8</td>
</tr>
<tr>
<td>Biology Seminar</td>
<td>.........................</td>
<td>1</td>
<td>Biology Seminar</td>
<td>..............................</td>
<td>1</td>
</tr>
<tr>
<td>Thesis or Elective</td>
<td>....................</td>
<td>3</td>
<td>Thesis or Elective</td>
<td>..............................</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>..............................</td>
<td>6½</td>
<td>Elective</td>
<td>..............................</td>
<td>6 or 7</td>
</tr>
</tbody>
</table>

### 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 both in arts and sciences, as well as in technology, 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.
### Freshman Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1 or 3</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 5 or 7, †4</td>
<td>2</td>
</tr>
<tr>
<td>Drawing 1, *6</td>
<td>2</td>
</tr>
<tr>
<td>English 1</td>
<td>3</td>
</tr>
<tr>
<td>Forestry 1</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 11</td>
<td>3</td>
</tr>
<tr>
<td>Military 1, *3</td>
<td>1½</td>
</tr>
<tr>
<td>Zoology 1, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Physical Training</td>
<td>½</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 2, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 2 or 4</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 6 or 8, †4</td>
<td>2</td>
</tr>
<tr>
<td>Drawing 2, *6</td>
<td>2</td>
</tr>
<tr>
<td>English 2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 12</td>
<td>2</td>
</tr>
<tr>
<td>Military 2, *3</td>
<td>1½</td>
</tr>
<tr>
<td>Physical Training</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomy 1, 2 *3</td>
<td>3</td>
</tr>
<tr>
<td>Biology 67, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering 1 and 7</td>
<td>3½</td>
</tr>
<tr>
<td>Economics 1b</td>
<td>2</td>
</tr>
<tr>
<td>English 5</td>
<td>2</td>
</tr>
<tr>
<td>Military 3, *3</td>
<td>2</td>
</tr>
<tr>
<td>Physical Training 3, *2</td>
<td>½</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 8, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Biology 68, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering 2</td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 4</td>
<td>1½</td>
</tr>
<tr>
<td>Economics 2b</td>
<td>2</td>
</tr>
<tr>
<td>English 10</td>
<td>2</td>
</tr>
<tr>
<td>Forestry 10</td>
<td>1</td>
</tr>
<tr>
<td>Military 4, *3</td>
<td>2</td>
</tr>
<tr>
<td>Physical Training 4, †2</td>
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</tr>
<tr>
<td>Elective</td>
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</table>

### Junior Year

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 61, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering 21</td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 23</td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 27</td>
<td>1</td>
</tr>
<tr>
<td>Forestry 11</td>
<td>2</td>
</tr>
<tr>
<td>Forestry 13, *6</td>
<td>2</td>
</tr>
<tr>
<td>Geology 5</td>
<td>3</td>
</tr>
<tr>
<td>Horticulture 5, 2 †2</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 62, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Civil Engineering 22</td>
<td>1</td>
</tr>
<tr>
<td>Civil Engineering 24</td>
<td>1</td>
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<tr>
<td>Forestry 4</td>
<td>1</td>
</tr>
<tr>
<td>Forestry 6</td>
<td>2</td>
</tr>
<tr>
<td>Forestry 8, *6</td>
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</tr>
<tr>
<td>Forestry 28</td>
<td>1</td>
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<tr>
<td>Physics 10</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>
First Half Semester:
- Forestry 3 .................................... 2
- Forestry 5 .................................... 1
- Forestry 9 .................................... 1
- Forestry 15 ................................. 1
- Forestry 17 .................................. 1
- Forestry 19 .................................. 1
- Forestry 21 .................................. 1

Second Half Semester: (In Camp)
- Forestry 31 .................................. 3
- Forestry 33 .................................. 3
- Forestry 35 .................................. 3

Biology 66, 2 †2 ................................. 3

CURRICULUM IN HOME ECONOMICS

This curriculum leads to the degree of Bachelor of Science (in Home Economics). In addition to the prescribed studies, elective courses are offered for those who plan to teach.

Students desiring to follow this curriculum must meet the regular university requirements.

Students taking Courses 5, 6, 10, and 11 are required to wear in the laboratory white waists, shoes with rubber heels, and white aprons with bibs. They must also be provided with small white hand towels and holders.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1 or 3</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 5 or 7, †4</td>
<td>2</td>
</tr>
<tr>
<td>English 1</td>
<td>3</td>
</tr>
<tr>
<td>History 7</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 1, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 3, 1 †2</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 13, †4</td>
<td>2</td>
</tr>
<tr>
<td>Physical Training 1, †2</td>
<td>½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2 or 4</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 6 or 8, †4</td>
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<tr>
<td>English 2</td>
<td>3</td>
</tr>
<tr>
<td>History 8</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 2, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 4, 1 †4</td>
<td>3</td>
</tr>
<tr>
<td>Physical Training 2, †2</td>
<td>1</td>
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</tbody>
</table>
### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art 11</td>
<td>2</td>
</tr>
<tr>
<td>Biochemistry 9, 2 †2</td>
<td>3</td>
</tr>
<tr>
<td>Physiology 5, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>English 3</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 5, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Physical Training 3, †2</td>
<td>½</td>
</tr>
<tr>
<td>Psychology 1</td>
<td>3</td>
</tr>
<tr>
<td>Art 12</td>
<td>2</td>
</tr>
<tr>
<td>Food Analysis 8, †6</td>
<td>3</td>
</tr>
<tr>
<td>Botany 2, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>English 4</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 6, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Physical Training 4, †2</td>
<td>1</td>
</tr>
<tr>
<td>Psychology 2</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Bacteriology 1, †6</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology 3</td>
<td>2</td>
</tr>
<tr>
<td>Biochemistry 7, 3 †4</td>
<td>5</td>
</tr>
<tr>
<td>Home Economics 7, 2 †4</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 9</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Physics 8, 4 †2</td>
<td>5</td>
</tr>
<tr>
<td>Home Economics 8, †6</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 10, 3 †4</td>
<td>5</td>
</tr>
<tr>
<td>Home Economics 14</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 17, 1 †4</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 31</td>
<td>3</td>
</tr>
<tr>
<td>Economics 1b</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 12</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 18, 1 †4</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 32</td>
<td>3</td>
</tr>
</tbody>
</table>

Home Economics 21 or 22. *9—3 credit hours required in either fall or spring semester.

Electives 16 credit hours for the year.

Students desiring to secure the Professional Secondary Certificate must complete 6 hours of Psychology and 12 hours of Education as follows: Education 51 or 52, 77 or 78, and 6 hours elective. All work must be of grade C or above.

### 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.

**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><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subject</strong></td>
<td><strong>Hours</strong></td>
</tr>
<tr>
<td>Animal Husbandry</td>
<td>3 *2 4</td>
</tr>
<tr>
<td>Business Arithmetic and Farm Accounts</td>
<td>2</td>
</tr>
<tr>
<td>Forge Work, *3</td>
<td>1</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Farm Crops, 3 *3</td>
<td>4</td>
</tr>
<tr>
<td>Fruit Handling, 3 *3</td>
<td>4</td>
</tr>
<tr>
<td>Poultry Husbandry, 2 *2</td>
<td>3</td>
</tr>
</tbody>
</table>
SECOND YEAR

Animal Husbandry, 3 †2...... 4
English ....................... 2
Farm Chemistry ................ 3
Farm Crops .................... 2
Farm Engineering and
Mechanics, 1 *3............ 2
Poultry Husbandry .......... 2
Vegetable Gardening, 3 *3.... 4
Veterinary Science .......... 3

Animal Husbandry, 3 †2...... 4
English ....................... 2
Farm Management, 3 *3.... 4
Forestry ...................... 2
Insects ....................... 2
Poultry Husbandry .......... 2
Small Fruit Culture and
Plant Propagation, 3 *3... 4
Veterinary Science .......... 3

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 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 78, 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 approved 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.*

**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.*

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.*

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

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. Pre-requisites, Courses 1 and 3. *Two hours a week.*
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.

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.*

13. **Field Crops. Judging and Commercial Grading.**—Comparative judging of corn, small grains, and potatoes, according to standards. A study of market grade requirements. Class room, *one hour a week*; laboratory, †two hours a week.

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.

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.

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; soiling systems, and their adaptation to local conditions. Class room, *one hour a week*; laboratory, †two hours a week.

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.*

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.*

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

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

66. **Seminar.**—A continuation of Course 65. *One hour a week.*

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.

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.

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.

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 prod-
ucts, 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.

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

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. Classroom, one hour a week; laboratory, three hours a week.

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.

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.

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 manage-
ment 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.

2. Types, Breeds, and Management of Poultry.—A continuation of Course 1. Class room, one hour a week; laboratory, †two hours a week.

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.

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.

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

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.

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.

51, 52. Thesis.—Three hours a week.

BACTERIOLOGY AND VETERINARY SCIENCE

Professor Russell; Assistant 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.

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.
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.*

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

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.*

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

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

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

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 and 2. Class room, *one hour a week; laboratory, †four hours a week.*

53. **Bacteriology.**—A study of the physiology of bacteria; bacteriological analysis of water; and a study of soil bacteria. Prerequisite, Course 1 or 2. Class room, *one hour a week; laboratory, †four hours a week.*

54. **Bacteriology.**—A course which will consider such dairy experiments as the effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemical tests for quality of milk; study of effect of 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.*

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.*

56. **Bacteriology.**—Lectures and reference work upon various problems, relating to different phases of sanitary milk production; relation of microorganisms to butter and cheese; discussion of the effect of various dairy operations upon quality of dairy products. Open only to students taking Course 54. Prerequisite, Course 52. *Two hours a week.*
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.

**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. 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. Class room, *three hours a week; laboratory, †four hours a week.*

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

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*.

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*.

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*.

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*.

**BIOLOGY**

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

**FARM MANAGEMENT AND AGRICULTURAL ENGINEERING**

**Professor Simmons**

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

   (b) **Farm Records and Accounts.**—A system of records of the various operations of the farm, such as records of field labor, crop yields, milk production in the dairy, etc., a system of accounts showing the receipts and expenditures of the farm. †*Four hours a week.*
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*.

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*.

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

(b) **Economics.**—The factors of agricultural production, and economic properties; organization of the farm; rent of farm land and the law of diminishing returns from the land; systems of distribution; a study of life in the rural communities; schools and other rural organizations. Class room, *two hours a week*; laboratory, †two hours a week.

74. **Farm Management.**—A study of the various types of farming, with comparison of investment and returns from each. A study will be made of the conditions under which extensive, intensive, and mixed systems of farming prosper or fail; laying out of fields and rotations of crops; investigation of cost of different farming operations; management of men and teams; markets and marketing. Farm surveys, with a detailed study of the condition on different farms, will be made. Farm plans will be outlined to suit various conditions. Class room, *two hours a week*; laboratory, *three hours a week*.

76. **Farm Management.**—Economic study of marketing. A course that deals with the problems in the distribution of farm products which have to do with the creating of place, form, time, and possession utilities. A study is made of the share of the returns to the different factors and forces rendering service in creating these utilities. Lectures, *three hours a week*. 
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 agriculture, 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.*

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.*

14. **Forest Management.**—Construction of a working plan for an assigned tract of forest land; map making for forestry work with a complete report and plans for the management of the same. Forestry seniors only. *Six hours a week.*

15. **Silviculture.**—A study of silvics, the life factors determining the character and form of forest vegetation. The development of forest types and the silvrical 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.*

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.*

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.*

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.*
19. **Lumbering.**—The lumber industry in the United States considered from the economic standpoint; an account of the methods of logging and manufacture in different regions. Textbook 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.*

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. **Forest Policy.**—National and state forest policy and administration; relation of government, corporations and individuals in regard to forest policies and applied forest management. Forestry seniors only. First half of semester. *Two hours a week.*

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.*

24. **Current Forestry Literature.**—A continuation of Course 23. *One hour a week.*

25, 26. **Thesis.**—Credits of from 2 to 6 hours will be allowed students desiring to elect thesis work in forestry. Work on original problems and investigations may be undertaken with the approval of the department. *Time to be arranged.*

28. **Forestry Laws.**—Laws of the federal government and of the several states concerning forests and forestry. Forestry students only. Second half of semester. *Two hours a week.*

### 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.

33. **Forest Management.**—Business principles involved in the management of a forest area, including organization, regulation, and administration, leading to the preparation of a complete working-plan for the area. *Sixteen hours a week,* second half semester.
35. **Cruising and Mapping.**—The making of topographic maps and detailed estimates of standing timber. Methods of locating trails, highways, 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.

**HOME ECONOMICS**

*Associate Professor McGinnis; Assistant Professor Greene; Assistant Professor Bancroft; Miss Morrill*

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*.

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*.

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

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*.

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*.

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

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*.

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*.
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*.

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*.

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

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*.

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*.

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*.

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*.

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

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*.

**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
fruits in this State. Class room, *two hours a week; laboratory, †two hours a week.

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.

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.

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.

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.

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.

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.

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.

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.

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.
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.

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.

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.
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 Huddleston, 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
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
François Joseph Kueny, L. ès L., Associate Professor of French
Charles Howard Batchelder, B.A., M.S., Associate Professor of Zoology
Mark Bailey, M.A., Associate Professor of Public Speaking
James Wellington Whaler, M.A., Associate Professor of English
Albert Ames Whitmore, M.A., Associate Professor of History
Herbert DeWitt Carrington, Ph.D., Associate Professor of German
John William Draper, Ph.D., Associate Professor of English
Noah Rosenberger Bryan, Ph.D., Associate Professor of Mathematics
Harry Woodbury Smith, M.S., Assistant Professor of Biological and Agricultural Chemistry
Adelbert Wells Sprague, M.A., Director of Music
Leo Henry Dawson, M.A., Assistant Professor of Physics
Platt Ashley Pearsall, M.S., Assistant Professor of Chemistry
Harold Francis Watson, M.A., Assistant Professor of English
Aaron Bless, M.A., Assistant Professor of Physics
Warren Stanhope Lucas, M.A., Assistant Professor of Mathematics
Harold Chandler White, B.S., Assistant Professor of Chemistry
Paul DeCosta Bray, Ch.E., Assistant Professor of Chemistry
Evelyn Buchan, M.A., Assistant Professor of Sociology
Charles Floyd Whitcomb, Instructor in French
Frank Swan Beale, B.S., Instructor in Mathematics
Marion Katharyn Bragg, B.A., Instructor in English
Edward Choate Brown, Instructor in Mathematics
Howard Lloyd Flewelling, B.A., Instructor in English
Walter William Purdy, B.S., Instructor in Chemistry
George Mervil Seeley, B.A., Instructor in Chemistry
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
Leslie George Jenness, B.S., Instructor in Chemistry
Francis Doolittle Wallace, B.A., Instructor in Public Speaking
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
Sherman William Brown, B.A., Instructor in Spanish
Alexander Braun Cutler, B.S., Instructor in Chemistry
Rose Mary Davis, B.S., Instructor in English
Howard Theodore Engstrom, B.S., Instructor in Mathematics
Edward 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
Hobart Ernest Rowlands, M.A., Instructor in English
Doris Frances Twitchell, B.A., Instructor in Sociology
Theodore Shirley Currier, Assistant in History and Government

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 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.

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, 5, 6, or 3, 4, 7, 8; 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 giving three semester hours' credit.

**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 bachelor's degree, with the exception that students from the College of Technology 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 similarly transfer and be graduated as majors in 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 Sciences 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 degree 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 Teaching, 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 terms. 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. Owing to the work of the American Medical Association, two years pre-medical work in an Arts college has become the standard requirement for admission to class A medical schools, and with this in view the two-year course has been arranged. 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 will be arranged to meet the need of students who wish a broader academic training before beginning their distinctly medical studies. Three or four years of academic work are strongly recommended to the prospective student.

Two-Year Course

FIRST YEAR

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<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Hours</th>
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<th>Spring Semester</th>
<th>Hours</th>
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<tbody>
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<td>Subject</td>
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<td>Military</td>
<td>1½</td>
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### SECOND YEAR

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<td>Laboratory Physics</td>
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<tr>
<td>Military</td>
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<tr>
<td>Animal Embryology</td>
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<tr>
<td>Organic Chemistry</td>
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</tr>
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### Three-Year Course

#### FIRST YEAR

**Fall Semester**

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<td>General Chemistry</td>
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<td>English</td>
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<tr>
<td>Military</td>
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<td>Physical Training</td>
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**Spring Semester**

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<td>General Chemistry</td>
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<tr>
<td>Military</td>
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<tr>
<td>Physical Training</td>
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</table>

#### SECOND YEAR

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
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<td>Qualitative Analysis</td>
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<td>General Physics</td>
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<td>Laboratory Physics</td>
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<td>Modern Language</td>
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<tr>
<td>Military</td>
<td>2</td>
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<tr>
<td>Animal Embryology</td>
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<tr>
<td>Organic Chemistry</td>
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<td>General Physics</td>
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<tr>
<td>Laboratory Physics</td>
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<td>Modern Language</td>
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<td>Military</td>
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#### THIRD YEAR

<table>
<thead>
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<th>Course</th>
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<td>Scientific German</td>
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<td>Psychology</td>
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<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Genetics</td>
<td>2</td>
</tr>
<tr>
<td>Animal Histology</td>
<td>4</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Scientific German</td>
<td>2</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Social Pathology</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
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</tbody>
</table>
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>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>General Biology</td>
<td>4</td>
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<tr>
<td>General Chemistry</td>
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<tr>
<td>English 1</td>
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<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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</table>

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology</td>
<td>4</td>
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<tr>
<td>General Chemistry</td>
<td>4</td>
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<tr>
<td>English 2</td>
<td>3</td>
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<tr>
<td>History 8</td>
<td>3</td>
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<tr>
<td>Modern Language</td>
<td>3</td>
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<tr>
<td>Military 2</td>
<td>1½</td>
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<tr>
<td>Physical Training</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 CURRICULUM

Public Administration Course

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

Option 1, Teacher's 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 Arts College 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>Fall Semester</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>English</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Science or Mathematics</td>
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<tr>
<td>U.S. History &amp; Gov't.</td>
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<tr>
<td>Military</td>
<td>1½</td>
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<tr>
<td>Physical Training</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Subject</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
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<tr>
<td>Foreign Language</td>
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<tr>
<td>Science or Mathematics</td>
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<td>U.S. History &amp; Gov't.</td>
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<tr>
<td>Military</td>
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<tr>
<td>Physical Training</td>
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</tbody>
</table>
SECOND YEAR

Advanced Composition ............... 2
Foreign Language ....................... 2
Science or Mathematics ...... 3
Economics ............................... 3
American Government .......... 3
History 1 ........................................ 3
Military ................................. 2

THIRD YEAR

Public Speaking ........................... 1
Psychology .................................... 3
History 3 ........................................ 2
Foreign Governments ................. 2
Option (History and Government) .... 2
Elective .......................................... 7

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

American Diplomacy or Constitutional Law........ 3
*Elective ................................. 14

International 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.
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.

15, 16. General Astronomy.—Designed for general culture and for students in mathematics and physics. 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. Two hours of recitations or lectures and two hours of observatory work a week.

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 1922-1923.
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. Two hours a week.

BIOLOGY

PROFESSOR ———— ; ASSOCIATE PROFESSOR BLAKE; ASSOCIATE PROFESSOR BATCHELDER; MR. HULL; MISS WOODBRIDGE

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 and Forestry, and Pre-medical work. Class room, two hours a week; laboratory, †four hours a week.

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 Home Economics, and Pre-medical work. Prerequisite, Course 1. Class room, two hours a week; laboratory, †four hours a week.

5. 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.

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.

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.
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.

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.

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.*

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.*

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.

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

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.

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.

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.

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.

61. **Plant Histology.**—The microscopic structure of the higher plants: the cell; the various tissues; the root, stem, leaf, and spore-bear-
ing 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, \textit{two hours a week}; laboratory, \textit{four hours a week}.

62. \textbf{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, \textit{two hours a week}; laboratory, \textit{four hours a week}.

63. \textbf{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; \textit{time to be arranged}, giving four credit hours.

64. \textbf{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, \textit{one hour a week}; laboratory, \textit{four hours a week}. Given in 1922 and alternate years.

66. \textbf{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, \textit{two hours a week}; laboratory, \textit{two hours a week}. Given in 1923 and alternate years.

67, 68. \textbf{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, \textit{two hours a week}; laboratory, \textit{four hours a week}.

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

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

75, 76. \textbf{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. \textit{The time varies} and the work may be continued a number of semesters.

77, 78. \textbf{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.

**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 1-5, 2-6, (or 3-7, 4-8), Ch 17, 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 1-5, 2-6 (or 3-7, 4-8), 11, 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 will be required, 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 Buchan; Assistant Professor Janzen; Mr. Chadbourne; Miss Twitchell**

I. Economics

1. Economic Organization.—Mediaeval and present economic systems compared and contrasted. The Industrial Revolution and modern industrial society constitute the main body of the course.

   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.

54. **Advanced Banking.**—A close study of the Federal Reserve System, investment banking, foreign exchange and credit analysis.

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.*

101, 102. **Economic Seminar.**—Special work for those fitted for it.

II. Sociology

29, 30. **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.*

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.*

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.*

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.*

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.*

97. **Immigration and Americanization.**—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 55. Juniors and seniors only. *Two hours a week.*

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 55. Juniors and seniors only. *Three hours a week.*
EDUCATION

Professor Pollard; Associate Professor Chadbourne

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.

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.

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.

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.

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.

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.

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

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.

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.

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.
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.*

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.*

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.*

**ENGLISH**

Professor Ellis; Associate Professor Draper; Associate Professor Whaler; Assistant Professor Watson; Assistant Professor Hotson; Miss Bragg; Mr. Flewelling; Mr. Richards; Mr. Mendum; Miss Davis; Mr. Rowlands

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.

All students intending to do major or minor work in English are required to take Eh 3, 4 in the sophomore year. They are also advised to elect English History, and elementary German if they have not studied it in high school, in the freshman or sophomore 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, Technical 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 fundamentals 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 semester. No credit.

1, 2. **FRESHMAN COMPOSITION AND LITERATURE.**—Two days a week are devoted to the fundamental principles of good usage in writing and the expository and narrative forms of composition, with some attention to argumentation and description. Weekly themes and frequent conferences are required. The remaining time is given to the consideration of several books from different periods of English literature. Prescribed for all freshmen. *Three hours a week*.

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 English poetry and prose. Written reports on assigned topics. Prerequisite for all advanced courses in English literature. *Three hours a week*.

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.

7, 8. **ADVANCED COMPOSITION A.**—A course designed to meet the needs of students who have passed Eh 1, 2 with a grade of C or better and desire to continue practice in writing for literary or practical purposes. *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. Open to all students in the Colleges of Agriculture and Technology who have completed Eh 1, 2. *Two hours a week*, fall or spring semester.

11, 12. **ADVANCED COMPOSITION B.**—A continuation course for those who, having completed Eh 1, 2, feel the need of further practice in writing. *Two hours a week*.

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*. 
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.*

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.

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.*

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.*

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.*

*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 paper, which is organized and operated as nearly as possible like a city newspaper. *Three hours a week.*

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. *Two hours a week.*


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 1923-24.

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.*

*A year's work must be completed to obtain credit in the College of Arts and Sciences.*
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.*

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For the courses which follow, Eh 3, 4. *History of English Literature,* is prerequisite.

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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.* Not given in 1923-24.

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.* Not given in 1923-24.

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.*

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.*

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.*

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.* Not given in 1922-23.

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.* Not given in 1922-23.

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.*
63. Sixteenth Century Literature.—Non-dramatic poetry and prose of the period, with particular attention to the poetry of Spenser. Two hours a week.

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.

65. 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 1923-24.

66. Eighteenth Century Literature.—The school of Pope and the rise of romanticism, with special attention to the poetry of the period and with supplementary lectures on the evolution toward romanticism of fiction, drama, gardening, architecture, and painting. Three hours a week. Not given in 1923-24.

67 (68). 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.

69, 70. The Eighteenth and Nineteenth Century Essay.—Addison, Steele, Swift, Johnson, Goldsmith, and Burke; Lamb, DeQuincey, Macaulay, Carlyle, Ruskin, Arnold and Stevenson. Two hours a week.


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. Two hours a week. Not given in 1923-24.

101, 102. Seminar.—The subject is determined by the needs of the students in attendance. Not given in 1923-24.

105. Graduate Seminar.—Topic for fall semester, 1923-24: American Literature from 1820 to 1840.

106. Graduate Seminar.—Topic for spring semester, 1924: Sources and Relationships of the English Language.

FRENCH

Professor Segall; Associate Professor Kueny; Miss Buzzell; Mr. Whitcomb

1, 2. Elementary French.—Grammar, pronunciation, composition, conversation, translation. Five hours a week.
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.*

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.*

7, 8. **Elementary Conversation and Composition.**—Open to students who have taken Courses 1 and 2, or an equivalent. *Two hours a week.*

9, 10. **Advanced Conversation and Composition.**—Open to students who have taken Courses 7 and 8, or an equivalent. *Two hours a week.*

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.*


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.*


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.

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 1923-24 and alternate years.
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.


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.

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.

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.
GENERAL COURSES

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:
1923-24  English; Education, Philosophy, and Psychology.
1924-25  German and Romance Languages; Biology.
1925-26  History and Economics; Physics and Mathematics.
1926-27  Ancient Civilization and Latin; Chemistry.

These courses will be repeated in the same order.
In 1923-24 a course of fifteen lectures each semester is being given by the Departments of English; and Education, Philosophy, and Psychology.
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.

Philosophy of Christianity

An apologetic study and interpretation of some of the central or root ideas from which Christian life grows. The object is to afford a sympathetic understanding of the main philosophical concepts underlying actual Christianity, thus yielding a clearer appreciation of Christianity itself. Lectures, discussion, and special assignments. Two hours a week. The course is designated Gc 3, 4.

GEOLOGY

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

GERMAN

Professor Drummond; Associate Professor Carrington

1, 2. First Year German.—A course for beginners. Grammar, composition, translation, conversation. Five hours a week.

3, 4. Second Year German.—For students who have had Courses 1, 2 or equivalent. Translation, composition, grammar review. Three hours a week.
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.

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.

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.

10. History of German Literature.—An outline sketch of the history of German literature in German. Recitations, outside reading, lectures. Two hours a week.

13, 14. Elementary German Composition and Conversation.—For students who have had Courses 1, 2 or equivalent. Two hours a week.

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.

17, 18. Advanced German Conversation and Composition.—For students who have had Courses 13, 14. Two hours a week.

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.

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.

55, 56. Studies in Nineteenth Century Literature.—The various literary movements of the nineteenth century, lectures, discussions, outside reading. Two hours a week.

57, 58. Seminar.—A study of some special topic in German literature. Two hours a week.


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.

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.
The Department of Greek is arranged with the idea of presenting several phases of the ancient civilizations. 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 our modern day 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.

3. Private Life of the Greeks and Romans.—Text-book; lectures, illustrated with lantern slides and photographs; assigned reading. Two 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 the easy reading in the New Testament Greek. The transition is gradually made to the more complex Greek of the Classical period. Three hours a week.

6. Continuation of Course 5.—Reading of parts of Xenophon and Plato. Further study of Greek grammar and the writing of Greek. Three hours a week.

15, 16. Origin of the Bible.—A brief examination of the time, place, and authorship of the various parts of the Old and New Testament. One hour 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, members of the class taking the several parts. 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.* Given in 1923-24 and alternate years.

55, 56. **History of the Near East.**—It is with the conviction that the present Near East can be understood only by the past Near East that this course is given. The early national traditions of the Near East are traced from the Greek age down thru Roman and Byzantine epochs. The brilliant periods of Balkan history are discussed with the spread of Ottoman power and the relation of Turkey to the affairs of Modern Europe. Obviously this course can be given only in the light of the Great War and the recent order of events in the Near East. Lectures and special assignments. Open only to students who have taken Gk 1 and 2, or by arrangement with the instructor. *Three hours a week.*

**Art**

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. *Three hours a week.* Given in 1922-23 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.*
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.

2. Modern History.—Continuation of Course 1 to 1815, closing with a rapid sketch from 1815. Not open to freshmen. Three hours a week.

3. History of England.—From early times to the beginning of the Stuart period. Not open to freshmen. Two hours a week.

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.

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.

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.

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.

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.

10. History of the United States.—A continuation of Course 9 from 1865 to the present time. Two hours a week.

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.

52. The Reformation.—This course follows Course 51 and the two are always given the same year. Three hours a week.

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.

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 Germany. *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 Caesar, 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.

55. Tacitus.—Reading of the Annales and study of the reign of Tiberius. *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. Brown; Mr. Jenness; Mr. Engstrom

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.*

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 it for admission.

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.*
4. **Spherical Trigonometry.**—The elements of this subject with problems and applications to spherical astronomy. *Two hours a week.*

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.*

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.*

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.*

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.*

11. **Mathematics for Agricultural Students.**—*Three hours a week.*

12. **A Continuation of Course 11.**—*Two hours a week.*

13. **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.*


17. **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.*

18. **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.*


21. **Solid Geometry.**—The equivalent of Course 2 but given in the fall semester.
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.

52. **Solid Analytic Geometry.**—*Three hours a week.* Given in 1924-25 and alternate years.

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 1923-24 and alternate years.


56. **Differential Equations.**—Open to students who have taken Courses 7, 8. *Two hours a week.*

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.

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 teachers of mathematics, principals, and superintendents. Those interested in the teaching of college mathematics will be assigned investigations in that field. *Three hours a week.*


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 1923-24 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, con-
formal 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 1923-24.


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 1923-24.


120. **Continuation of Course 119.**—*Three hours a week.*

**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, reports. *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. **History of Ancient and Medieval Philosophy.**—Beginning with primitive thought, the developments of philosophic conceptions are traced down into the Middle Ages. Lectures and discussions. No prerequisites. *Three hours a week.*

2. **History of Modern Philosophy.**—Here the main trends of philosophy are followed from the Middle Ages to the present, as a way to understanding current views. Lectures and discussions. No prerequisites. *Three hours a week.*

3. **The 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. No prerequisites. *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. No prerequisites. *Three hours a week.*

5. **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. No prerequisites. *Three hours a week.*

53. **The Problems of Philosophy.**—Similar to Course 3, with the addition of work suitable to graduate credit. No prerequisites. *Three hours a week.*

Psychology course, Py. 68.—This is listed with the courses in the Department of Psychology.
PHYSICS

Professor Stevens; Professor Fitch; Assistant Professor Dawson; Assistant Professor Bless; Mr. Brown

1, 2. General Physics.—A course covering mechanics, heat, sound, magnetism, and electricity. Lectures and recitations. *Four hours a week.*

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.*

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.*

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.*

10. Meteorology.—A course covering the essential principles of the subject including a study of instruments and weather predictions. *Three hours a week.*

11. Meteorology.—A continuation of Course 10 dealing with special topics. Recitations, *two hours a week*; laboratory work, †*two hours a week.*

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.*

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.*

51. Optics Laboratory.—An advanced laboratory course in light. †*Four hours a week.*

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.*

53. Electrical Measurements.—An advanced laboratory course in the measurement of electrical quantities. Both direct and alternating currents are studied. †*Six hours a week.*

55. Electricity and Magnetism.—Recitations on the mathematical theory of direct current phenomena. *Two hours a week.*

56. Electricity and Magnetism.—A continuation of Course 55, dealing with alternating current phenomena. *Two hours a week.*
58. **Mathematical Physics.**—The application of mathematical methods to the treatment of problems in physics. Given in 1923-24 and alternate years. *Two hours a week.*

60. **Sound.**—Lectures and recitations. Given in 1924-25 and alternate years. *Two hours a week.*


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.*

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.*

66. **Vacuum Tube Laboratory.**—Laboratory work with vacuum tubes covering the work of Course 65. †*Two hours a week.*


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.*

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**

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.*

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, perceptive power, progress of learning, and methods of study. Psychology 1, 2 are prerequisites. Three hours a week.

68. 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 49, or Psychology 1, 2. Three hours a week.

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.

72. Advanced Qualitative Laboratory.—A course arranged to meet the needs of those students who are specializing in psychology. This course consists in a systematic presentation, by laboratory work and occasional lectures, of the method of observation in experimental psychology. This follows Psychology 71. Three hours a week.

91, 92. Seminar in Mental Measurements and Statistics.—Open to juniors, seniors, and graduate students. Two hours a week.

PUBLIC SPEAKING

Associate Professor Bailey; Mr. Wallace

All courses in Public Speaking are open to both men and women except Courses 1, 2, 3, and 4. These courses are reserved for men students.

Speaking Courses

1, 2. Public Speaking.—This course 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.

3, 4. Debating.—A study of the principles of argumentation and debate. Public or technical questions of general interest are debated and considered. Course 1, 2 is a prerequisite. Students in Technology who continue public speaking are expected to take this course. One hour a week.

5, 6. Public Speaking and Debate.—Similar in general character to Courses 1, 2, 3, and 4, but primarily for students in Arts and Sciences. Course 5 should be taken by all who can devote two hours to public speaking. Two hours a week.
11, 12. **Parliamentary Drill.**—After courses 1, 2, 3, 4, or 5 and 6. A drill in the usual house procedure. Speaking from the floor; bills presented by members; questions of the day considered. *One hour a week.*

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.*

### 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 expressional and art side of speaking. *One hour a week.*

9. **The One Act Play.**—After Course 7, 8, or with consent of the instructor. The study and the presentation in class of several one act plays. *Two hours a week.*

10. **The Modern Play.**—After Course 7, 8, or with consent of the instructor. The study and the presentation of at least two modern plays. *Two hours a week.*

15, 16. **Shakespeare.**—After or with Course 9 and 10. The reading and the rendering of scenes from Shakespeare. A comedy and a tragedy will be considered each semester. *Two hours a week.*

### SPANISH AND ITALIAN

**Professor Peterson; Mr. Gomez-Duran; Mr. Brown**

**Spanish**

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. One section starts in the spring semester and continues in the fall semester following. *Five hours a week.*

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.*

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 may be required to memorize selections in prose and verse. Attention will be given to the acquisition of a practical vocabulary. *Two hours a week.*

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 1923-24. *Three hours a week.*

9. **The Hispanic American Countries.**—After a survey of the history of the Hispanic nations of the New World their civilization will be considered in its intellectual and moral as well as its material aspects. A study will be made of the industries, commerce, customs, social institutions, literature and ideals of the countries where Spanish and Portuguese are spoken. Lectures, assigned reading and recitations. No reading in Spanish is required, and students who complete this course may receive credits for the social science group but not for language. *Two hours a week.*

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.*

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.*
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.

66. 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.

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: given in 1923-24. Two hours a week.

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.

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.

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.

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.
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.*

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.*
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 Davis Emerson, B.S., Assistant Professor of Mechanical Engineering
Walter Joseph Creamer, E.E., Assistant Professor of Electrical Engineering, and Assistant to the Dean of the College of Technology
Platt Ashley Pearsall, M.S., Assistant 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
Paul DeCosta Bray, B.S., Ch.E., 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
Walter William Purdy, B.S., Instructor in Chemistry
Everett Louis Roberts, B.S., Instructor in Electrical Engineering
George Mervil Seeley, B.A., Instructor in Chemistry
Richard Eugene Downing, B.S., Instructor in Electrical Engineering
Leslie George Jenness, B.S., Instructor in Chemistry
Alexander Braun Cutler, B.S., Instructor in Chemistry
Stanley Gilbert Hall, B.S., Instructor in Engineering Drawing
Eric Stiles Hope, B.S., Instructor in Mechanical Engineering
Rudolph Macy, Ph.D., Instructor in Chemistry
Herbert Burr Abbott, Mechanician in Mechanical Engineering
Leo Day, Assistant in State Highway Laboratory
GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, and in various branches of engineering. The number of hours required for graduation in this college is one hundred and fifty. 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. Mathematics, the equivalent of two years, five hours a week except in Chemistry and Chemical Engineering, where one and two-fifths years are required.

2. 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.

3. Language: English, the equivalent of one year, six hours a week; foreign language: beginning with the fall of 1923 a student entering the College of Technology will be required to present two entrance credits in each of two different foreign languages (Latin and French preferred), or three entrance credits in one modern foreign language.

Students in civil engineering, electrical engineering, and mechanical engineering will not be required to take further foreign language in college. Students in chemistry and chemical engineering may be excused from further foreign language at the discretion of the major instructor.

At graduation in any of these curricula the student receives the degree of Bachelor of Science.

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 engi-
neering 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**

In view of the development of the application of chemistry in manufacturing, 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 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, and pulp and paper mills.

**Option I. Regular Curriculum**

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
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<tbody>
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<td><strong>Fall Semester</strong></td>
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<tr>
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### SOPHOMORE YEAR

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## JUNIOR YEAR

### Fall Semester

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<tr>
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## SENIOR YEAR

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## Option II

### Paper and Pulp Curriculum

**Freshman Year**  
Same as Option I

### Sophomore Year

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<table>
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### JUNIOR YEAR

#### Fall Semester

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<tr>
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<tr>
<td>Mechanical Eng. 83</td>
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#### Spring Semester

<table>
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**Suggested Electives:**

- Chemistry 90
- Chemistry 94
- Mechanical Eng. 98
- Economics 12a

**Forestry Courses**

**At graduation the chemical engineering student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon presentation of a satisfactory thesis and proofs of suitable professional work, he may receive the degree of Chemical Engineer.**

### 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, when completed, it 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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<th>Spring Semester</th>
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### Junior Year

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### Senior 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 three 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; while Option 3 includes work in both railroad and highway engineering.
The following outline constitutes the regular four years' curriculum:

**Requirements for Graduation**

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
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**Sophomore Year**

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**Junior Year**

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</table>
At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives 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 the degree of Civil Engineer.

**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 acquisition of a reference library. Effort is
made to have lectures by active engineers and alumni following their pro-
fession, thus bringing the student into more intimate contact with the en-
gineering world.

In addition to the purely electrical subjects, the student takes the cus-
tomary work in mathematics, physics, mechanics, shop, drawing, and allied
engineering courses, together with the cultural subjects enumerated below.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall Semester Hours</th>
<th>Subject</th>
<th>Spring Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1 or 3</td>
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<td>Chemistry 2 or 4</td>
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</tr>
<tr>
<td>Chemistry 5, †2</td>
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<td>Chemistry 6, †2</td>
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<td>Drawing 1, *6</td>
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<td>English 2</td>
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<td>Mathematics 1 and 3</td>
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<tr>
<td>Military 1, †3</td>
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### SOPHOMORE YEAR

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### JUNIOR YEAR

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<tr>
<td>Electrical Eng. 7, †3</td>
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<td>Public Speaking 3</td>
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<td>Public Speaking 4</td>
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</table>
### 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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**Electrical Eng. 51**

**Electrical Eng. 52**

**Electrical Eng. 54, †2**

**Electrical Eng. 56**

**Electrical Eng. 58**

**Electrical Eng. 61**

**Electrical Eng. 64**

**Electrical Eng. 65**

**Electrical Eng. 66**

**Electrical Eng. 67, †3**

**Electrical Eng. 69**

**Electrical Eng. 75**

**Electrical Eng. 76**

**Mechanical Eng. 77**

**Mechanical Eng. 85**

**Options**

**Electrical Eng. 53**

**Electrical Eng. 54, †2**

**Electrical Eng. 56**

**Electrical Eng. 58**

**Electrical Eng. 61**

**Electrical Eng. 64**

**Electrical Eng. 65**

**Electrical Eng. 66**

**Electrical Eng. 67, †3**

**Electrical Eng. 69**

**Electrical Eng. 75**

**Electrical Eng. 76, †3**

**Inspection Trip 78**

**Thesis 80**

**Economics 12**

**Mechanical Eng. 98**
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

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tr>
<td>Subject</td>
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Sophomore Year

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<td>Mathematics 7</td>
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<td>Physics 1</td>
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<tr>
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### JUNIOR YEAR

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<td>Mechanical Eng. 79</td>
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<td>Mechanics 51</td>
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<td>Public Speaking 3</td>
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<td>Mechanical Eng. 8, *6</td>
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<td>Mechanical Eng. 66</td>
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<td>Mechanical Eng. 68, *3, 2</td>
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<tr>
<td>Mechanical Eng. 70, †3</td>
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### SENIOR YEAR

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<td>Civil Engineering 33</td>
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<td>Inspection Trip</td>
<td></td>
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<tr>
<td>Thesis</td>
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*Substitution may be offered for this course if approved by the 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

Professor Brautlecht; Associate Professor Brann; Assistant Professor Bray; Assistant Professor Pearsall; Assistant Professor White; Mr. Purdy; Mr. Seeley; Mr. Jenness; Mr. Cutler; Dr. Macy

1-5, 2-6. General Chemistry.—This course deals with the general principles of the science. First semester: lecture, one hour a week; recitation, one hour a week; laboratory, †four hours a week. Second semester: lectures and recitations, three hours a week; laboratory, †two hours a week. Courses 1-5 and 2-6 or 3-7 and 4-8 constitute the first year's work in chemistry.

3-7, 4-8. Advanced General Chemistry.—A course similar to Courses 1-5, 2-6, but for students who have had a thoro course in elementary chemistry. Lecture and recitation, three or two hours a week; laboratory, †two or four hours a week in inorganic preparations.

(To enroll in Courses 3-7 and 4-8 students must at time of registration present their original laboratory note book in elementary chemistry, approved by and having the signature of their previous instructor.)

11. Qualitative Analysis.—This course includes the general reactions of the metals and acids with their qualitative separation and identification. Lectures and recitations, three hours a week; laboratory work, nine hours a week.

13. Pre-Medical Qualitative Analysis.—The same as Course 11 for pre-medical students.

16. Pre-Medical Organic Chemistry.—An elementary course giving in one semester the fundamentals of the subject. Students who have the time available are advised to take Courses 51, 52. Prerequisites, general
chemistry and qualitative analysis. Recitations and lectures, three hours a week; laboratory, †four hours a week.

17. History of Chemistry.—One hour a week.

40. Elementary Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 11. Class room, one hour a week; laboratory, †eight hours a week.

42. General Applications of Chemistry.—Lecture course. Not given during semester when chemistry department gives the General Lecture Course. One hour a week.

48. Mineralogy and Crystallography.—Prerequisite, Ch. 11. †Four hours a week. May be given in alternate years.

51, 52. Organic Chemistry.—Lectures, recitations, and laboratory work. Course 11 is prerequisite. For juniors. Class room, three hours a week; laboratory, †eight hours a week.

56. Metallurgy.—An introductory study dealing with iron, steel, and the common metals. Three hours a week.

59. Fuel and Gas Analysis.—Course 40 is a prerequisite. (May be given in abbreviated form as part of Ch. 79.) †Four hours a week.

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, †eight hours a week.

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. Course 61 is a prerequisite. Class room, one hour a week; laboratory, †eight hours a week.

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.

66. Pulp Technology.—A lecture course on the processes of manufacturing pulp. Course 65 is a prerequisite. Two hours a week.

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.

68. Pulp Manufacture.—A laboratory course in which pulps of various kinds are made. This must be preceded by Course 65. †Four hours a week.

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.*

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 electromotive force; colorimetry; the use of the more important instruments, such as the refractometer, polariscope, and spectroscope. *†Four hours a week.*

75. **Cellulose.**—A course in which cellulose is studied including laboratory work dealing with the characteristics and derivations of cellulose. *†Four hours a week.*

77, 78. **Industrial and Engineering Chemistry.**—General processes of technical chemistry and selected topics, including the principal manufactured products together with general equipment and the engineering procedure employed. Lectures and recitations. Courses 51, 52, and 62 are prerequisites. *Three hours a week.*

79. **Advanced Technical Analysis.**—This course includes the analysis of water from both the technical and sanitary viewpoint, fuel and gas, iron and steel, and other industrial products of general importance with interpretation of results. Assaying will be given if there is sufficient demand. Prerequisite, Course 62. *Class room, one hour a week; laboratory, †eight hours a week.*

80. **Inspection Trip.**—Local trips to manufacturing plants of a chemical nature are taken; also about a week’s trip in New England during the spring, when about twenty industrial and chemical plants are visited. A report of the trip is required. The expenses of these trips for the past year were from $35 to $45.

82. **Paper Coloring.**—Course 75 is a prerequisite. *†Eight hours a week for first half semester.*

86. **Bleaching of Pulp.**—A laboratory course dealing with the methods of bleaching various kinds of pulp including use of bleaching powder, of chlorine directly, electrolytic bleach production, and efficiency testing. Course 66 is a prerequisite. *†Eight hours a week for second half of semester.*

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, and tearing strength, stretch, folding strength, etc. Methods for estimating the quality and quantity of different fibres are also studied in the laboratory. Course 62 is prerequisite. *†Four hours a week.*
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, and others. Courses 51, 52, and 61 are prerequisites. †*Four hours a week.*

90. **Organic Preparations.**—The preparation of a large number of typical organic compounds. Courses 51, 52 are prerequisites. †*Four hours a week.*

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.*

93. **Chemical Literature.**—Reviews and discussions of leading articles appearing in current American, English, French, and German chemical literature. For senior chemical engineering and chemistry students. *One hour a week.*

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.*

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.*

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.

101. **Synthetic Organic Chemistry.**—Time and credit hours arranged.

111. **Methods of Teaching Chemistry.**—*One hour a week.* Time arranged.

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. All students are required to have one and 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.

CIVIL ENGINEERING

Professor Boardman; Professor Sprague; Associate Professor Lyon; Associate Professor Leavitt; Assistant Professor Evans; Mr. Felker

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.

2. Plotting.—This course consists chiefly of map drawing from field notes, by the different methods in common use. Courses 1 and 7 are prerequisite. *Eight hours a week. First twelve weeks.

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.

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.

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.

7. 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.

9. Railroad Curves.—A course of recitations and lectures investigating the geometry of railroad curves, switches, and turnouts. Course 7 or 3 is prerequisite. Two hours a week.

20. 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.
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.

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.*

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.

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.*

25. **Railroad Construction.**—Recitations and lectures on the field and office practice of staking out and computing amount of excavation and fill; borrow-pits; haul; methods and materials of railroad construction; subgrade; roadbed; track and track work. Course 9 or 27 is prerequisite. *Two hours a week.*

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.*

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.*

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.

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.*
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.

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.

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.

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 Option 1. Course 26 is prerequisite. †Four hours a week.

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.

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.

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.

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 Option 1. Course 26 is prerequisite. Two hours a week.

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.

58. Structures.—A continuation of Course 57. This course includes a study of the higher types of structures. Three hours a week.

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.
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.*

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.*

62. **Designing.**—A continuation of Course 59. Course 57 is prerequisite. †*Six hours a week.*

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.*

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.*

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.*

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.*

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. Required of students electing Option 3. Course 63 is prerequisite.

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.*

97 and 98. **Thesis Work.**—The study of and report upon some original investigation, or design. *Time to be arranged.* See regulations regarding degrees.

**ELECTRICAL ENGINEERING**

Professor Barrows; Associate Professor Hill; Assistant Professor Creamer; Mr. Roberts; Mr. Downing

1, 2. **Elements of Electrical Engineering.**—Fundamental laws and principles of electricity; series and parallel circuits; the magnetic circuit; the dielectric circuit; conduction thru electrolytes and gases; thermionics; electrical instruments; electrical measurements. Recitations and problems. *Three hours a week.*

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.*

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. *Four hours a week.*

7, 8. **Electrical Laboratory.**—Electrical measurements; operation and testing of direct-current generators and motors. Introductory experiments on 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.*

20. **Ignition and Starting Systems.**—The principles of ignition and starting systems as used in the late types of automobiles. Lectures and recitations. Courses 5, 30, or 35 prerequisite. *Two hours a week.*

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.*

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.*
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.

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.

42. Electrical Power.—Electrical measurements; the generation, transmission, and utilization of electrical power. Lectures, recitations, and problems. Two hours a week.

51. Alternating Current Apparatus.—Continuation of Course 6. Theory, construction, and operating characteristics of alternating current apparatus and machinery. Polyphase apparatus; generation, distribution and utilization of polyphase power. Lectures, recitations, and problems. Course 6 is prerequisite. Three hours a week.

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.

53. 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 concurrent. Two hours a week.

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.

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.

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.

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.
64. **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 prerequisite. *Two hours a week.*

65. **Advanced Telephone Engineering.**—Theory of apparatus; modern laboratory tests; recent developments. Lectures, quizzes, and recitations. Course 22 is prerequisite. *Two hours a week.*

66. **Telephone Transmission.**—Application of hyperbolic functions of transmission line problems; transmission of speech over cable and open wire circuits; loaded lines; design of artificial lines. Recitation, and problems. Course 65 is prerequisite. *Two hours a week.*

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. *Three hours a week.*

69. **Radio Engineering.**—Fundamentals of damped and continuous wave telegraphy and of telephony. The transmitter; the receiver; antenna systems; tuning; the vacuum tube. Lectures and recitations. Course 6 is prerequisite. *Two hours a week.*

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.*

78. **Inspection Trip.**—About a week's trip visiting some of the electrical and industrial plants of New England.

80. **Thesis Work.**—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees.

**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. *Six hours a week.*
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. *Six hours a week.

3. **Drawing.**—The elementary principles and problems of descriptive geometry, including intersections and developments. *Six hours a week.

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.

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.

### MECHANICAL ENGINEERING

**Professor Sweetser; Associate Professor Kent; Assistant Professor Emerson; Assistant Professor Watson; Mr. Davee; Mr. Perkins; Mr. Hope; 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.*

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.*

3. **Forge Work.**—Forging; welding; tool dressing. A set of lathe tools for use in machine shop is made by each student. *Three hours a week.*

4. **Woodworking.**—A shorter course than Course 1, arranged for students in Chemical Engineering. *Four hours a week.*

5, 6. **Shop Work.**—A special course for Agricultural students, covering metal and woodworking with hand tools mostly, harness repairing, rope splicing, belt lacing, and tool sharpening.

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.*

9, 10. **Machine Work.**—A shorter course than 7, 8, for electrical engineers. *Four hours a week.*
23. **Elements of Mechanical Engineering.**—A course of lectures, supplemented by recitations, designed to familiarize the student with the mechanical apparatus of manufacturing and power plants. *One hour a week.*

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.*

27. **Kinematics.**—A shorter course than 25, arranged for Electrical Engineers. *Three hours a week.*

28. **Kinematics.**—A shorter course than 27 given to Chemical Engineers. *Two hours a week.*

30. **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.

31. **Materials of Engineering.**—Properties of the metals; timber, rope; protective coatings and preservatives. *Two hours a week.*

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.*

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.*

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.*

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.*

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.*

71. **Mechanical Laboratory.**—Tests of materials, heating value of liquid fuels, heat balance tests of steam and gasoline engines. †*Three hours a week.*

72. **Mechanical Laboratory.**—Tests of condensers, boilers, air compressors, fans, hydraulic testing. †*Three hours a week.*

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.

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.

77, 78. 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.

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.

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.

81. Heat Engineering.—A continuation of Courses 79 and 80 dealing with steam turbines and gas engines; considerations affecting the design and efficiency of operation of heat motors. Three hours a week.

82. 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.

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.

84. Heat Engineering.—A course similar to Course 79, given to Electrical Engineers. Three hours a week.

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.

88. Engine Design.—A study of problems affecting the design of a steam or gas engine with regard to their bearing on general machine design. An engine is partially designed in the drawing room. Courses 67 and 81 are prerequisite. *Six hours a week.

92. Heating and Ventilation.—Course 80 is a prerequisite. Three hours a week for nine weeks.
94. **Hydraulic Machinery.**—Hydraulic turbine; water wheels; various features of hydraulic power plant development. *Three hours a week* for nine weeks.

96. **Seminar.**—Preparation, presentation, and discussion of papers on leading engineering topics. *One hour a week.*

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.*

**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 forty-five 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.

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**MECHANICS**

**Professor Weston**

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. *Three 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.*
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.

The courses are so arranged that the standard required will be that for a platoon leader in an infantry company.

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.
REQUIRED COURSES

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 and 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.

Infantry Weapons: (1) The bayonet—Bayonet training to include the assault course.
(2) Automatic Rifle—Mechanics (stripping, assembling, and functioning). Immediate action. Marks-
manship 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. Construction 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:

   (2) The 37 mm. Gun (One-pounder)—History of the weapon. Direct, indirect, and overhead fire. Observation and adjustment of fire.

   (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:* Moot-court exercises.

*Command and Leadership:* Continuation of 5 (b).

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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.
PHYSICAL EDUCATION AND ATHLETICS

Men's Division

Professor Bryant; 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

Assistant Professor Huesman

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. The physical examination is repeated during each of the four years of college.
Physical Education 1.—Required of all freshmen. This consists of two hours of practical class work and one hour of hygiene. In the fall there is a choice of field hockey, tennis, volley ball, or baseball; in the winter, gymnastics, basketball, or winter sports; in the spring track, field hockey, tennis, volley ball, and baseball.

Physical Education 3.—Required of all sophomores. As above, substituting for "one hour hygiene," one hour lecture.

Physical Education 9.—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 a team is maintained in basketball. Outside games have been played in field hockey and it is under consideration as a definitely scheduled sport.
Maine Agricultural Experiment
Station Council

Clarence Cook Little, S.D.  
Warner Jackson Morse, Ph.D.  
Ora Gilpatrick, Houlton  
Thomas Edward Houghton, Fort Fairfield  
Frank Edward Guernsey, Dover  
Leon Stephen Merrill, M.D.  
Frank Porter Washburn, Perry  
Eugene Harvey Libby, Auburn  
Wilson Hiram Conant, Buckfield  
John Winthrop Leland, Dover  
William George Hunton, Portland  

Leonard Clement Holston, Yarmouth

James Monroe Bartlett, M.S.  
Edith Marion Patch, Ph.D.  
John Whittemore Gowen, Ph.D.  
Elmer Robert Tobey, Ch.E.  
Donald Folsom, Ph.D.  
Karl Sax, Sc.D.

President
Secretary
Committee of Trustees
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.

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

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 Gowen, 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 member 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 conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese, and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories."

The work that the Station can undertake from the Adams Act fund is more restricted, as the fund can "be applied only to paying the necessary expenses for conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories."
EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on Page 22. 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 which have been set from 20 to 30 years. 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 thoroly
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

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 HALVERSON, Ph.D., Professor of Psychology
CLARENCE COOK LITTLE, S.D., Acting for the Department of Education
DONALD FOLSOM, Ph.D., Plant Pathologist, Experiment Station
FRANÇOIS JOSEPH KUENY, L. ès L., Associate Professor of French
HERBERT DEWITT CARRINGTON, Ph.D., Associate Professor of German
JOHN WILLIAM DRAPER, Ph.D., Associate Professor of English

*Members of the Executive Committee for 1923-24.
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.

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

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).

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 bear 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 on page 34.

ORAL EXAMINATIONS

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.
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.
Summer Session

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, Public Health, 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, 1924, 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, Allen W. Stephens, 1899, 244 Madison Ave., New York City
Vice President, Norman H. Mayo, 1909, % Simmons & Hammond Co.,
Portland
Clerk, Herman P. Sweetser, 1910, Orono
Executive Secretary, Robert P. Clark, 1915, Alumni Hall, 38 Pearl St.,
Bangor
Treasurer, Charles E. Crossland, 1917, Orono

ALUMNI COUNCIL

Members at Large

<table>
<thead>
<tr>
<th>Name</th>
<th>Term expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>George H. Hamlin, 1873, Orono</td>
<td>1925</td>
</tr>
<tr>
<td>E. E. Palmer, 1899, 84 State St., Boston, Mass.</td>
<td>1925</td>
</tr>
<tr>
<td>William McC. Sawyer, 1901, 61 Main Street, Bangor</td>
<td>1926</td>
</tr>
<tr>
<td>W. H. Jordan, 1875, Orono</td>
<td>1924</td>
</tr>
<tr>
<td>P. B. Palmer, 1896, Orono</td>
<td>1924</td>
</tr>
<tr>
<td>J. F. Gould, 1892, 42 W. Broadway, Bangor</td>
<td>1924</td>
</tr>
<tr>
<td>E. H. Kelley, 1890, Orono</td>
<td>1924</td>
</tr>
<tr>
<td>C. Parker Crowell, 1898, 60 Elm St., Bangor</td>
<td>1924</td>
</tr>
<tr>
<td>Mrs. Mildred Prentiss Wright, 1911, 188 Elm St., Bangor</td>
<td>1924</td>
</tr>
<tr>
<td>(Fills unexpired term of Miss Joanna C. Colcord, 1906)</td>
<td></td>
</tr>
<tr>
<td>Paul L. Bean, 1904, 11 Lisbon St., Lewiston</td>
<td>1925</td>
</tr>
<tr>
<td>E. E. Chase, 1913, 208 Middle St., Portland</td>
<td>1926</td>
</tr>
</tbody>
</table>

College of Law

Lawrence V. Jones, L1910, 24 Sixth St., Bangor        1924

College of Arts and Sciences

Harry E. Sutton, 1909, 161 Devonshire St., Boston, Mass    1924

College of Agriculture

Arthur L. Deering, 1912, Orono                        1926
ALUMNI ASSOCIATIONS

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 1924

Ex-Officio Members

Allen W. Stephens, 1899, 244 Madison Ave., New York City
President of the General Alumni Association
Norman H. Mayo, 1909, % Simmons & Hammond Co., Portland

Executive Committee

Harry Sutton, (Chairman), E. R. Berry, George H. Hamlin, C. Parker Crowell, and Wm. McC. Sawyer

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, Machias; Secretary, H. Styles Bridges, 1918sc, 59 No. Main St., Concord, N. H.

Maine Teachers

President, Hoyt D. Foster, 1916, Orono; Secretary, Lindsey March, 1921, Dover-Foxcroft

Local Associations

Androscoggin Valley—President, Horace Cook, 1910, 46 Hampshire St., Auburn; Secretary, Lester H. Morrill, 1915, 13 Lisbon St., Lewiston
Aroostook County—President, E. M. Fulton, 1911, Mars Hill; Secretary, Clayton Steele, 1911, Presque Isle
Boston—President, Grover T. Corning, 1910, 89 Federal Street, Boston; Secretary, Dudley Baldwin, L1917, 710 Tremont Bldg., Boston
Boston Club University of Maine Women—Secretary, Vera L. Mersereau, 1918, 8 Russell Rd., West Somerville, Mass.

Central District—President, Carlos Dorticos, 1903, 1016 Monadnock Bldg., Chicago, Ill.; Secretary, Harry G. Jordan, 1913, 2328 E. 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.


Golden Gate—President and Secretary, Wm. W. Redman, 1915, 2132 Shattuck Ave., Berkeley, Cal.

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 City; Secretary, Norman R. French, 1914, 1388 Shakespeare Ave., Bronx, N. Y.

Oxford County—President, C. C. Dudley, 1902, Bryant Pond; Secretary, P. M. McDonald, L1913, Congress St., Rumford

Penobscot Valley—President, J. Harvey McClure, 1905, 45 Sixth St., Bangor; Secretary, Ralph Whittier, 1902, Penobscot Savings Bank, Bangor


Pittsburgh—President, A. H. Blaisdell, 1911, 98 Trenton Ave., Wilkinsburg, Pa.; Secretary, H. W. Hinkley, 1913, 427 E. Broadway, Girard, Ohio

Providence—President, W. L. Holyoke, 1897, 719 Broad St., Providence, R. I.; Secretary, F. H. Bowerman, 1900, 232 Industrial Trust Bldg., 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, G. C. Marble, 1917, Madison Ave. and High St., Skowhegan
Southern California—President, L. A. Boadway, 1891, Pasadena, Cal.; Secretary, E. M. Loftus, 1914, 420 Pacific Finance Bldg., Los Angeles, Cal.
Southern New Hampshire—President, R. P. Mitchell, 1911 t.c., Amoskeag Bank Bldg., Manchester, N. H.; Secretary, H. Styles Bridges, 1918 s.c., 59 No. Main St., Concord, N. H.
Waldo County—President, Chas. S. Bickford, 1882, 30 Cedar St., Belfast; Secretary, Will R. Howard, 1882, Belfast
Washington—President, N. C. Grover, 1890, 1442 Belmont St., Washington, D. C.; Secretary, Mildred H. Merrill, 1913, 1422 Belmont St. N. W., Washington, D. C.
Western Maine—President, Kent R. Fox, 1910, 534 Congress St., Portland; 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, J. P. V. Fagan, 1907, 196 Emery St., Berlin, N. H.; Secretary, W. W. Webber, 1916, 151 High 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, 17 E. 42nd St., 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  
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
1889  Dr. J. S. Ferguson, 330 W. 28th St., New York City
1890  Edward H. Kelley, Alumni Hall, Orono
1891  W. M. Bailey, 88 Broad St., Boston, Mass.
1892  George F. Rich, 173 Main St., Berlin, N. H.
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, 719 Broad St., Providence, R. I.
1898  W. L. Ellis, 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, 178 Middle St., 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, 151 High St., Berlin, N. H.
1917  F. O. Stephens, 155 Pleasant St., Auburn
1918  Thelma Kellogg, Orono
1919  S. W. Collins, Caribou
1921  Winthrop L. MacBride, 76 Parker St., Brewer
1922  Ian M. Rusk, West Townsend, Mass.
1923  Mary C. Perkins, 37 Tremont Street, Portland
Appointments

MEMBERS OF PHI KAPPA PHI

Donald Ford Alexander, Bangor; Myrtie Ann Bean, Vienna; Lorenzo Gates Currier, Warren, N. H.; Philip Dunning Davis, Saco; Henry Leroy Doten, Northfield; Frances Muriel Field, Auburn; Mildred Ena Lombard, Sebago Lake; Annie Marie McPhee, South Paris; Iva Angerona Merchant, Walnut Hill; Mabel Blakeslee Peabody, Portland; Mary Crowell Perkins, Portland; Fernald Stanley Stickney, Brownville; Doris Frances Twitchell, Old Town; Harriet Weatherbee, Lincoln; John Clifford Winslow, Westbrook.

MEMBERS OF TAU BETA PI

1923

Adrian Lowell Ackley, Peak Island; Donald Ford Alexander, Bangor; Lorenzo Gates Currier, Wentworth, N. H.; Philip Dunning Davis, Saco; Henry Leroy Doten, Northfield; Stanley Gilbert Hall, Dexter; Eric Stiles Hope, Newport; Stuart Miles Johnson, Brownville; Vernon Leslie Johnson, North Berwick; Arthur Edmund Kittredge, South Portland; Chase Roger Lappin, Bryant Pond; Wilbur Ernest Meserve, Gorham; Fernald Stanley Stickney, Brownville; Lionel Eugene St. Pierre, Auburn; Verlie Armand Webber, Kittery; Howard Edmund Wilson, Belfast; John Clifford Winslow, Westbrook.

1924

Carl Lewis Beal, Phillips; Henry Stanwood Boynton, Orono; Guy Eben Griffin, Old Town; Francis Edward Handy, Augusta; Theodore Frederick Hatch, Dark Harbor; Benjamin Hoos, Old Town; Carl Whitcomb Meinecke, Bangor; Sidney Osborne, Orono; Fred Emery Smith, Westbrook; Arthur Osgood Willey, Gardiner.

MEMBERS OF ALPHA ZETA

1923

Everett Charles Cunningham, Patten; Edward Carroll Fossett, Bristol; Julius Oscar Garsoe, Woodfords; Kenneth Edmund Gibbs, Livermore Falls; Ersley Levi Goldsmith, West Gardiner; Maurice Lester Hatch, Old
Town; Edward Wight Holden, Hebron; Melvin Jeffrey Holmes, Ocean Grove, N. J.; Ithel Ezekiel Prescott, Sanford; Wilbur Cranton Sawyer, Westbrook; Charles Joseph Shepherd, Corinna; Frank Mark Small, Orono; Clarence Joseph Titcomb, Farmington.

1924

Frank Howard Clark, Bridgton; George Carroll Hilton, Bridgton; George Edgar Lord, West Lebanon; Charles Edwin Noyes, Norway; Earl Pike Osgood, Fryeburg; Bernie Elliott Plummer, Weld; John Alvin Small, Newport.

1925

Robert Smith Pike, Cornish

Members of Phi Beta Kappa

Robert Charles Calderwood, Waldoboro; David Gross, Bangor; Mildred Ena Lombard, Sebago Lake; Mabel Blakeslee Peabody, Portland; Mary Crowell Perkins, Portland; Doris Frances Twitchell, Old Town; Harriet Weatherbee, Lincoln; Sarah Chaloner Wiswell, Machias.

General Honors

Donald Ford Alexander, Bangor; Virginia Averill, Old Town; Annie Louise Bartlett, Ashland; Myrtie Ann Bean, Vienna; Robert Charles Calderwood, Waldoboro; Catharine Cary, Houlton; Lorenzo Gates Currier, Warren, New Hampshire; Philip Dunning Davis, Saco; Errol Leonard Dearborn, Corinna; Henry Leroy Doten, Northfield; Frances Muriel Field, Auburn; David Gross, Bangor; Stanley Gilbert Hall, Dexter; Elizabeth Anna Harkness, Veazie; Eric Stiles Hope, Newport; Vernon Leslie Johnson, North Berwick; Rachel Louise Kincade, Portland; Mildred Ena Lombard, Sebago Lake; Annie Marie McPhee, South Paris; Iva Angerona Merchant, Walnut Hill; Wilbur Ernest Meserve, Gorham; Mabel Blakeslee Peabody, Portland; Mary Crowell Perkins, Portland; Helen Elizabeth Shorey, Dover; Pearl Marguerite Snow, Exeter; Fernald Stanley Stickney, Brownville; Doris Frances Twitchell, Old Town; Harriet Weatherbee, Lincoln; John Clifford Winslow, Westbrook.

Prizes Awarded

Kidder Scholarship, Carl Lewis Beal, Phillips.
New York Alumni Association Scholarship No. 1, Howard Edmund Wilson, Belfast and Theodore William Monroe, Milo.
New York Alumni Association Scholarship No. 2, Guy Eben Griffin, Old Town.

Pittsburgh Alumni Association Scholarship, Carl Lewis Beal, Phillips. Class of 1873 Prize, Donald Francis Hastings, Rockland.

Central District Alumni Association Scholarship, Willis Manning Barrows, Dover-Foxcroft.

Elizabeth Abbott Balentine Scholarship, Cora Ellen Emery, Bar Harbor.

Phi Mu Scholarship, Sylvia Elizabeth Tibbetts, Vanceboro.

Joseph Rider Farrington Scholarship, John Alvin Small, Newport.

Stanley Plummer Scholarship, Margery Evelyn Bailey, Dexter.

Walter Balentine Prize, Prescott Ervin Thornton, Springfield.

Franklin Danforth Prize, Iva Angerona Merchant, Walnut Hill.


Penobscot Valley Alumni Association Scholarship No. 1, Albert Henry Repscha, Derby.

Penobscot Valley Alumni Association Scholarship No. 2, Bentley Staples Hutchins, Bangor.

Track Club Scholarship, Arthur Sewall Hillman, Island Falls.

Alpha Omicron Pi Alumnae Prize, Edith Alma Perkins, Hallowell.

Freshman Scholarship Cup, Beta Theta Pi.

Agricultural Club Membership Cup, Tie between Class of 1923 and Class of 1926.

Charles Anthony Rice Cup, Phi Eta Kappa.

Class of 1905 Scholarship, Willis Manning Barrows, Dover-Foxcroft.

Chi Omega Prize, Mildred Ena Lombard, Sebago Lake.

University of Maine Honorary Society Scholarship, No award.

Fraternity Scholarship Cup, Lambda Chi Alpha.

Class of 1908 Commencement Cup, Class of 1882.
Commencement

THURSDAY, JUNE 7

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 8

9.00 A. M.  Meeting of the Board of Trustees
9.30 A. M.  Meeting of the Alumni Council, Library
8.00 P. M.  President's Reception, Library
9.00 P. M.  Fraternity Receptions

SATURDAY, JUNE 9, ALUMNI DAY

9.30 A. M.  Class Day Exercises, University Oval
10.00 A. M.  Annual Business Meeting, General Alumni Association,
            Alumni Hall
12.30 noon  Alumni Luncheon, The Commons
6.00 P. M.  Alumni Banquet, Alumni Hall
9.00 P. M.  The Maine Pageant Movies, Alumni Hall
9.30 P. M.  Alumni Hop, Gymnasium

SUNDAY, JUNE 10

10.30 A. M.  Baccalaureate Address by Rev. Charles A. Moore, D.D.,
             Bangor
5.00 P. M.  Breaking Ground for Arts and Sciences Building
6.30 P. M.  President and Mrs. Little at home to Senior Class

MONDAY, JUNE 11

9.30 A. M.  Commencement Exercises, Address by General Clarence R.
            Edwards, University Oval
            Conferring of Degrees
8.00 P. M.  Commencement Ball, Gymnasium
Degrees Conferred

College of Agriculture

Bachelor of Science

Clifford Wendell Anderson (in Agronomy) ......................... New Sweden
Myrtie Ann Bean (in Home Economics) ............................. Vienna
Adolph Lawrence Bisson (in Forestry) .............................. Skowhegan
Janet Bonney Cole (in Home Economics) .......................... Machiasport
Ruth Milton Coombs (in Home Economics) ........................ Bangor
Ardelle Agnes Cooney (in Home Economics) ....................... Brownville Jct.
Everett Charles Cunningham (in Dairy Husbandry) ............... Patten
Theodore Small Curtis (in Dairy Husbandry) ..................... Freeport
Lyle Moody Davis (in Dairy Husbandry) ............................ Newport
Katherine Lambert Dennison (in Home Economics) ............... Brewer
Percy Melvin Dow (in Agronomy) ................................. Mapleton
Gerald Cobb Dunn (in Horticulture) ............................... Monmouth
Frances Muriel Field (in Home Economics) ....................... Auburn
William McKinley Foss (in Forestry) .............................. Bingham
Edward Carroll Fossett (in Animal Husbandry) ................. Bristol
Julius Oscar Garsoe (in Horticulture) ............................ Woodfords
Kenneth Edmund Gibbs (in Animal Husbandry) .................. Livermore Falls
Ersley Levi Goldsmith (in Animal Husbandry) ................... Gardiner
Clyde Newman Hall (in Dairy Husbandry) ....................... West Farmington
Helen Beatrice Hamlin (in Home Economics) ..................... Gardiner
Pauline Dudley Harthorn (in Home Economics) ................... Milford
Maurice Lester Hatch (in Animal Husbandry) .................... Old Town
Lloyd Graham Hay (in Animal Husbandry) ......................... Portland
Edward Wight Holden (in Dairy Husbandry) ..................... Hebron
Melvin Jeffery Holmes (in Dairy Husbandry) ..................... Old Town
Robert Ingersoll (in Agronomy) ................................. Old Town
Percy Leroy Johnson (in Biology) ................................. Bar Harbor
Clayton Francis Jones (in Forestry) .............................. Randolph, Vt.
George Harris McGouldrick (in Horticulture) ................. Portland
Ishmeal McKechnie (in Forestry) ............................... Sanford
Iva Angerona Merchant (in Horticulture) ...................... Walnut Hill
Ruth George Murchie (in Home Economics) ..................... Calais
Francia May Place (in Home Economics) ........................ Dover-Foxcroft
Wesley Fletcher Porter (in Dairy Husbandry) .................. Patten
Ithel Ezekiel Prescott (in Animal Husbandry) .................. Sanford
Martha Amanda Sanborn (in Home Economics).................................Standish
Wilbur Cranton Sawyer (in Animal Husbandry)............................Westbrook
John Hayes Shaw (in Animal Husbandry).......................................Springvale
Charles Joseph Shepherd (in Dairy Husbandry).............................Corinna
Clinton Edgar Small (in Dairy Husbandry).................................South Portland
Frank Mark Small (in Dairy Husbandry)........................................Orono
Ronald Cecil Stevens (in Forestry).............................................Kingfield
Clarence Joseph Titcomb (in Dairy Husbandry)..............................Farmington
Cecil Arthur Ware (in Animal Husbandry)....................................Hampden Highlands
Frankie Webster (in Home Economics)........................................Deer Isle
William Herbert Wellington (in Forestry)...................................East Dover
Roland Lewis Wilkins (in Animal Husbandry)...............................North Jay
Roger Williams (in Dairy Husbandry)..........................................Guilford
Walter Orlando Wilson (in Dairy Husbandry)...............................Leeds

College of Arts and Sciences

Bachelor of Arts

Chester Jordan Austin (Mathematics)........................................Greenne
Virginia Averill (Spanish).........................................................Old Town
Annie Louise Bartlett (History)..................................................Ashland
Gerald Maynard Bates (Education)...........................................Portland
Clarence Bertram Beckett (Economics & Sociology).......................Calais
Elizabeth Berry (English).....................................................Rochester, N. H.
Helena Marie Bissonette (French).............................................Winthrop
Harold Frank Blackwood (Chemistry).......................................West Pembroke
George Vinton Blanchard (Economics & Sociology)....................Farmington
Robert Charles Calderwood (History)....................................Waldoboro
Catharine Cary (Latin)............................................................Houlton
Dorothy Chasman (English).......................................................Orono
Beatrice Nettie Cleaves (Economics & Sociology)......................Bar Harbor
Virginia Lee Colbath (Spanish)..............................................Mars Hill
William James Connelly (Chemistry)....................................Pembroke
Roland Francis Cony (History)................................................Augusta
Walter Joseph Creamer (English).............................................Bangor
Frank Parker Dobbins (Education)........................................Farmington
Roy Lynde Fernald (Economics & Sociology)..........................Winterport
Raymond Gridley Fogg (Economics & Sociology).....................Skowhegan
Arthur Herbert French (Chemistry)........................................Brewer
Nadine Marie Gellerson (Spanish)..........................................Houlton
Antoinette Walker Gould (Economics & Sociology)..................Bangor
David Gross (Spanish)............................................................Bangor
DEGREES CONFERRED

Mabel Geneva Hall (Spanish) .................. Caribou
Arabelle Gray Hamilton (Economics & Sociology) ................. Orono
Clifton Marshall Ham (Education) .................. Brooks
Elizabeth Anna Harkness (Mathematics) .................. Veazie
Alfred Geer Hempstead (History) .................. Hampden Highlands
Rowene Elizabeth Hersey (Economics & Sociology) ............ Bangor
Elizabeth Mae Hitchings (History) .................. Caribou
Marie Ethelyn Hodgdon (History) .................. Caribou
David William Hoyt (Economics & Sociology) ............... Easton
Helen May Humphreys (English) .................. Brownville Jct.
William Michael Kearns (Economics & Sociology) .......... Gardiner
Rachel Louise Kincade (English) .................. Portland
Lizzie Edna Kingsbury (English) .................. Biddeford
Edwin Leroy Kneeland (Education) .................. Princeton
Millard Edward Libby (Economics & Sociology) ............ Milford
Mildred Ena Lombard (Economics & Sociology) ........ Sebago Lake
Leonard Lord (Chemistry) .................. Saco
Evelyn McGlauflin (Mathematics) .................. Baring
John Ernest McNamara (Economics & Sociology) .......... Gardiner
Annie Marie McPhee (Biology) .................. South Paris
Margaret Manchester (French) .................. Northeast Harbor
Lois Churchill Mantor (Latin) .................. North Anson
Leland Samuel March (History) .................. Old Town
Thor Miller (Biology) .................. Portland
George Dewey Newhall (Economics & Sociology) .......... Cumberland Mills
Merle Clyde Niles (Economics & Sociology) ............ Rumford
George Noah (Chemistry) .................. Melrose, Mass.
Herbert George Partridge (Economics & Sociology) ........ Searsmont
Bryant McLellan Patten (Economics & Sociology) ........ Portland
Mabel Blakeslee Peabody (English) .................. Portland
Mary Crowell Perkins (English) .................. Portland
Elsie Beryl Perry (History) .................. Hallowell
Roland Sparrow Plummer (Education) .................. Harrington
Elizabeth Ring (History) .................. Orono
Eleanor Hathaway Rogers (History) .................. Newburyport, Mass.
Cora Frances Russell (History) .................. Bangor
Thelma Inga Sawyer (History) .................. Garland
Helen Elizabeth Shorey (Mathematics) ............ Dover-Foxcroft
Oscar Salisbury Simpson (Biology) .................. Marlboro, Mass.
William Andrew Simpson (Education) .................. Marlboro, Mass.
George Daniel Smith (Economics & Sociology) ........ Northampton, Mass.
Ruth Helen Spear (Economics & Sociology) ............. Rockland
Nina Bessie Stanchfield (Mathematics) ............... Veazie
Gladys Louise Staples (Spanish) .................. Bangor
Frederick Joseph Sullivan (Economics & Sociology) ...................... Bangor
Daniel Ferris Thomas (Chemistry) ................................................. Camden
Fred Elmore Trecartin (Economics & Sociology) ..................... Lubec
Doris Frances Twitchell (Chemistry) .............................................. Old Town
Frances Josephine Varney (Biology) ........................................... South Berwick
Vilma Louisa Wallace (Biology) .................................................. Sebago Lake
Harriet Weatherbee (Mathematics) .............................................. Lincoln
Albert Edward Weymouth (French) .............................................. Old Town
Marjorie D. Willey (Mathematics) .............................................. Bar Harbor
Arthur Edward Wilson (Economics & Sociology) ...................... Orono
Eunice Hazel Winslow (Latin) ..................................................... Rockland
Sarah Chaloner Wiswell (Mathematics) ...................................... Machias

**Bachelor of Pedagogy**

Errol Leonard Dearborn ............................................................... Corinna
Howard Saunders Emery .............................................................. Bar Harbor
Pearl Marguerite Snow ................................................................. Exeter
Margaret Alice Tibbetts ............................................................... Exeter

**College of Technology**

**Bachelor of Science**

Adrian Lowell Ackley (in Chemical Engineering) ............... Peak Island
Nelson Brown Aikins (in Electrical Engineering) ....................... South Windham
Donald Ford Alexander (in Electrical Engineering) ................. Bangor
Ceylon Richard Archer (in Electrical Engineering) ................. Bangor
Charles Leslie Berry (in Chemical Engineering) ....................... Portland
Harold Daniel Cahill (in Electrical Engineering) ...................... Bangor
Henry U. Kong Chung (in Chemical Engineering) ............... Hong Kong, China
Harold James Cooney (in Mechanical Engineering) .............. Brownville Jct.
Lorenzo Gates Currier (in Civil Engineering) ......................... Warren, N. H.
Louis Everett Curtis (in Electrical Engineering) ..................... Freeport
Alexander Braun Cutler (in Chemical Engineering) .................... Old Town
Philip Dunning Davis (in Civil Engineering) ............................. Saco
Franz Richard Dolliver (in Mechanical Engineering) .............. Bangor
Henry Leroy Doten (in Civil Engineering) ................................. Northfield
William Reed Dow (in Electrical Engineering) ......................... Bangor
Henry Charles Fenderson (in Chemical Engineering) .............. Saco
Clarence Bradford Gould (in Civil Engineering) ....................... Bowdoinham
DEGREES CONFERRED

Stanley Gilbert Hall (in Mechanical Engineering) ..................... Dexter
Philip Randall Hathorne (in Civil Engineering) ......................... Woolwich
Milton Arthur Hescock (in Chemical Engineering) ....................... Monson
Eric Stiles Hope (in Mechanical Engineering) .......................... Newport
Jacob McLellan Horne (in Electrical Engineering) ..................... Portland
Stuart Miles Johnson (in Electrical Engineering) ...................... Brownville
Vernon Leslie Johnson (in Electrical Engineering) ..................... North Berwick
Cecil Roland Jones (in Civil Engineering) ............................... Waterville
Horace Stedman Jordan (in Civil Engineering) ........................... Veazie
Eshburn Oscar Judkins (in Mechanical Engineering) .................... Upton
Arthur Edmund Kittredge (in Mechanical Engineering) ............... South Portland
Chase Roger Lappin (in Electrical Engineering) ......................... Bryant Pond
Edward Stone Lawrence (in Chemical Engineering) ..................... Gardiner
Russell Smith Leighton (in Electrical Engineering) .................... Columbia
Edgar Elwyn Lineken (in Chemical Engineering) ......................... Thomaston
Clyde Alexander McKeeman (in Mechanical Engineering) ............... Milltown
Cecil Hazen McNally (in Civil Engineering) .............................. Dexter
Witalus George Malenaucka (in Mechanical Engineering) ............. Auburn
Everett Brown Mansur (in Civil Engineering) ............................ Bangor
Guy Orison Matthews (in Mechanical Engineering) ..................... Hampden Highlands
Wilbur Chandler Maxim (in Electrical Engineering) .................... Waynew
Wilbur Ernest Meserve (in Electrical Engineering) .................... Gorham
Crane Allison Morrison (in Electrical Engineering) ..................... Bangor
Joseph Norman Mullen (in Electrical Engineering) ...................... Bangor
Rudolph Arnold Nissen (in Civil Engineering) ........................... Portland
Milton Carpenter Prentiss (in Mechanical Engineering) ............ Greenville
Milton James Ricker (in Civil Engineering) .............................. Flagstaff
Arthur Edmund Rogers (in Electrical Engineering) ..................... Stillwater
Otto Harald Rosenwald (in Electrical Engineering) ..................... Portland
Cecil Allen Rowe (in Electrical Engineering) .......................... Dryden
John Lawrence Seymour (in Chemical Engineering) ..................... New York, N. Y.
Leo James St. Clair (in Electrical Engineering) ......................... Gorham, N. H.
Philip Haskell Stevens (in Electrical Engineering) ..................... Auburn
Oscar Earle Stewart (in Chemical Engineering) ........................ Saco
Fernald Stanley Stickney (in Mechanical Engineering) ............... Brownville
Lionel Eugene St. Pierre (in Civil Engineering) ......................... Auburn
Richard Bryson Stuart (in Civil Engineering) .......................... Houlton
Ralph Edwin Thomas (in Electrical Engineering) ....................... Camden
Verlie Armand Webber (in Chemical Engineering) ....................... Kittery
Harold Emerson Welch (in Electrical Engineering) .................... Freeport
Herman Emil Wilde (in Chemistry) ................................. Lawrence, Mass.
Howard Edmund Wilson (in Electrical Engineering) .................. Belfast
Arthur Franklin Winslow (in Chemistry) ............................ Freeport
John Clifford Winslow (in Electrical Engineering) .............. Westbrook
Harvard Gerone Young (in Mechanical Engineering) ........... East Surry

Advanced Degrees

M a s t e r o f A r t s

i n e d u c a t i o n

James Franklin Carter (B.S., Bowdoin, 1917) ....................... Rumford

i n E n g l i s h

Thelma Louise Kellogg (B.A., Maine, 1918) .......................... Orono

i n M a t h e m a t i c s

Edward Choate Brown (A.B., Harvard, 1918) ....................... Orono

i n S p a n i s h

Frances Elizabeth Stanislaus Arnold (B.A., Maine, 1910) ......... Orono

M a s t e r o f S c i e n c e

i n A g r i c u l t u r a l C h e m i s t r y

Platt Ashley Pearsall (B.S., Virginia Polytechnic Institute, 1915) . Orono
Leon Reynolds Streeter (B.S., Colgate, 1919) ....................... Geneva, N. Y.

i n A n i m a l I n d u s t r y

Llewellyn Morse Dorsey (B.S., Maine, 1916) ......................... Orono
Leigh Philbrook Gardner (B.S., Maine, 1918) ......................... Orono
Harold Clayton Swift (B.S., Maine, 1918) ......................... Orono

i n C i v i l E n g i n e e r i n g

Weston Sumner Evans (B.S., Maine, 1918) .......................... Orono

i n M a t h e m a t i c s

Frank Swan Beale (B.S., Maine, 1921) .............................. Orono

C h e m i c a l E n g i n e e r

Alfred Beverly Lingley (B.S., 1920) ............................... Melrose, Mass.
Samuel Weisman (B.S., 1919) ......................................... Montreal, Canada
Earle Ovando Whittier (B.S., 1911; M.S., 1913) ............. Washington, D. C.
DEGREES CONFERRED

CIVIL ENGINEER

James Stuart Crandall (B.S., 1915)..........................East Boston, Mass.
Frank Holliday Derby (B.S., 1911)..........................St. Louis, Mo.
Ray Harrison Lindgren (B.S., 1915)..........................East Boston, Mass.
James Raymond Merrell (B.S., 1911).........................Saranac Lake, N. Y.

MECHANICAL ENGINEER

Raymond Olden Jackson (B.S., 1913)..........................Rolla, Mo.

Certificate

IN THE SCHOOL COURSE IN AGRICULTURE

George Joseph Bernard........................................Orono
Leon Emery Crediford............................................Shapleigh
William True Goff...............................................Orono
Albert C. Logan................................................Houlton
Raymond Averill Stone.........................................Fort Fairfield
Harold Edward Tucker............................................Pembroke

The following received commissions as Second Lieutenants of Infantry,
Officers' Reserve Corps

Lorenzo Gates Currier
Franz Richard Dolliver
Henry Leroy Doten
Ralph Augustus Getchell
Clifton Marshall Hamm
Stephen Scammon Kaler
Chase Roger Lappin
Russell Smith Leighton
Leland Samuel March
Theron Alonzo Sparrow
Philip Haskell Stevens
Albert Edward Weymouth

Honorary Degrees

Charles Putnam Barnes, M.A.
Carroll Sherman Chaplin, M.A.
Allen Whitmore Stephens, M.S.
Garret Schenck, D.Eng.
Clarence Ransom Edwards, LL.D
Catalog of Students


GRADUATE STUDENTS

Bailey, Marcia Edgerton, M.A., Eh.  Orono  35 Oak Street
Barber, Arthur Leslie, B.A., Eh.  Harvard, 1920
Batchelder, Charles Howard, B.S.,  Orono  38 North Main Street
   M.S., Bl.
   New Hampshire, 1913, 1915
Beale, Frank Swan, B.S., M.S., Ms.  Orono  33 Peters Street
   Maine, 1921, 1923
   Syracuse, 1892, 1895
Bragg, Marion Katharyn, B.A., Eh.  Orono  60 Park Street
   Maine, 1921
   Texas Agricultural and Mechanical
Brown, Alward Embury, B.A., B.S.E., Ps.  Orono  38 North Main Street
   Albion, 1919, Michigan, 1921
Brown, Edward Choate, B.A., M.A., Ms.  Orono  33 Bennoch Street
   Harvard, 1918; Maine, 1923
Buncke, Harry Jacob, C.E., Ch.  Whitestone, N. Y.
   Columbia, 1915
Bunker, Mary Carolyn, B.A., Bl.  Whitestone, N. Y.
   Maine, 1922
   Bangor  145 Union Street, Bangor
Chan, Pei Yung, B.S., Ch. Eng.         Wu Chow, China         Stillwater
M. I. T., 1923

Cooke, George Salem, B.A., S.T.B.,         Houlton
M.A., Arts
Harvard, 1914; Yale, 1917, 1918

Cutler, Alexander Braun, B.S.,         Old Town
Ch. Eng.
Maine, 1923

Maine, 1918

Derby, Helena Mason, B.A., Hy.         Bangor
Maine, 1922

Downing, Richard Eugene, B.S., Ps.         366 French Street, Bangor
M. I. T., 1922

Ellsworth, Vivian Margaret, B.A., Ps.         107 Grove Street, Bangor
Colby, 1915

Ps.
Maine, 1916, 1920

Engstrom, Howard Theodore, B.Ch.E.,         Orono
Ms.
Northeastern, 1922

Feranld, Roy Lynde, B.A., Es.              Orono
Maine, 1923

Flewelling, Howard Lloyd, B.A., Eh.         Orono
Dartmouth, 1921

Gómez-Durán, Edward, Ph.B., B.A.,         Orono
Ed.
Colegio del Rosario (Colombia) 1910;
Valparaiso, 1922

Bowdoin, 1914

Gould, Sherman Jewett, B.S., Ps.           New Portland
Bates, 1916

Hall, Howe Wiggin, B.S., An.               Orono
Maine, 1914

Hall, Stanley Gilbert, B.S., Me.           Dexter
Maine, 1923

Harris, Elijah Edgar, B.D., Arts          LaGrange
Newton Theological Seminary, 1923

Hubbard, Florence Eddy, B.A., Arts         Brooklyn, N. Y.
Barnard, 1904

Jenness, Leslie George, B.S., Ch. Eng.     Orono
New Hampshire, 1920
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Institution</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jenness, Lyle Clayton</td>
<td>B.S., Ms.</td>
<td>Orono</td>
<td>73 North Main Street</td>
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<tr>
<td>Jones, Eva Elizabeth</td>
<td>B.A., Bl.</td>
<td>Orono</td>
<td>Balentine Hall</td>
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<td>Keegan, Sister Mary</td>
<td>B.S.E., Fr.</td>
<td>Orono</td>
<td>Main Street</td>
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<td>Eucharia</td>
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<tr>
<td>Liu, Pao Chen</td>
<td>B.S., Ch. Eng.</td>
<td>Canton, China</td>
<td>Stillwater</td>
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<tr>
<td>Larkin, Sister Mary</td>
<td>B.S.E., Ed.</td>
<td>Orono</td>
<td>Main Street</td>
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<tr>
<td>Teresita</td>
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<tr>
<td>McConville, Sister</td>
<td>B.S.E., Ed.</td>
<td>Bucksport</td>
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<tr>
<td>Mary Callista</td>
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<td>Maddocks, Carl Wharton</td>
<td>B. Ped., Ed.</td>
<td>Walnut Hill</td>
<td>Walnut Hill</td>
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<tr>
<td>Merchant, Iva</td>
<td>B.S., Bl.</td>
<td>Rockland</td>
<td>Rockland</td>
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<tr>
<td>Angerona</td>
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<tr>
<td>Morse, Frank Leander</td>
<td>B.A., Ed.</td>
<td>Bangor</td>
<td>119 Somerset Street, Bangor</td>
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<tr>
<td>Staples</td>
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<tr>
<td>Mullen, Margaret</td>
<td>B.A., Eh.</td>
<td>Hampden Highlands</td>
<td>Φ Γ Δ House</td>
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<tr>
<td>Catherine</td>
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<tr>
<td>Murphy, Sister Mary</td>
<td>B.S.E., Ed.</td>
<td>Tokyo, Japan</td>
<td>309 Oak Hall</td>
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<tr>
<td>Eulalia</td>
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<tr>
<td>Murray, William Smith</td>
<td>B.A., Ed.</td>
<td>Readfield</td>
<td>Readfield</td>
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<td>Nakane, Shigeo</td>
<td>B.S., M.S.,</td>
<td>Orono</td>
<td>14 Pond Street</td>
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<td>Ch.</td>
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<td>Bowdoin, 1922</td>
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<tr>
<td>Oakes, Ralph Gilbraith</td>
<td>B.Ped., Ed.</td>
<td>Orono</td>
<td>Pine &amp; Myrtle Streets</td>
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<tr>
<td>Peterson, Bernese</td>
<td>B.A., Sp.</td>
<td>Orono</td>
<td>106½ North Main Street</td>
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<tr>
<td>Loretta</td>
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<tr>
<td>Purdy, Walter William</td>
<td>B.S., Ch.</td>
<td>Orono</td>
<td>Corinna</td>
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<tr>
<td>Richards, Irving</td>
<td>B.A., Eh.</td>
<td>Orono</td>
<td>Corinna</td>
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<td>Trefethen</td>
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<tr>
<td>Ross, Irma Marion</td>
<td>B.A., Eh.</td>
<td>Corinna</td>
<td>Corinna</td>
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</tbody>
</table>
Seeley, George Mervil, B.A., Ch. Orono 50 Pine Street Bates, 1913
Sethi, Jagat Ram, B.S., Ch. Eng. Rawal Pindi, India 309 Oak Hall Case, 1923
Tang, Tao Yuan, B.S., Ch. Peking, China Y.M.C.A., Bangor Wisconsin, 1923
Tobey, Elmer Robert, B.S., M.S., Pc. Orono 5 Pond Street Maine, 1911, 1917, 1920
Violette, Augusta Genevieve, B.A., Eh. Milford Milford Maine, 1921
Wallace, Francis Doolittle, B.A., Eh. Orono 53 Main Street Cornell, 1921
Watson, Harry Dexter, B.S., Me. Orono 169 Main Street Maine, 1918
Wiggin, Walter Wentworth, B.S., Bl. Orono 26 Myrtle Street New Hampshire, 1921
Woodbridge, Helen, B.A., M.S., Bl. Orono University Inn Mt. Holyoke, 1920; Washington, 1922

SENIORS

Abbott, Elmer Bradley Benson, Ce. Hollis Center 148 Main Street Orono
Ames, James Wesley, Es. Walpole, Mass. Φ Η Κ House
Annett, James Gordon, Ch. A. South Berwick Θ Χ House Arangelovich, Danitza, Ht.
Arangelovich, Danitza, Ht. Belgrad, Serbia Practice House
Ayer, Hazen Hunter, Es. Union Φ Κ Σ House Babson, John Low, Ht.
Babson, John Low, Ht. Gloucester, Mass. 23 Grove Street Bingham
Baker, Gregory, FY. Φ Κ Σ House South Paris
Bannister, Frank Cecil, Ee. Φ Η Κ House Orono
Barney, George Curtis, Ee. Calais Practice House Barstow, Ruth Helen, He.
Beckett, Lloyd Stanley, Ee. Calais Practice House Bennett, Aileen Helen, Lt.
Bennett, Aileen Helen, Lt. New Gloucester Balentine Hall Berg, Eric Olof, Ms.
Berg, Eric Olof, Ms. Rangeley Σ Ν House
Bessey, Ruth Anne, Lt.
Bowen, Howard Lancaster, Ms.
Boynton, Henry Stanwood, Ch. Eng.
Bragdon, Leonard Jellison, Ce.
Brasseur, Herbert Slaunwhite, Me.
Brown, Frederick Coombs, Ee.
Brown, Ralph Clifton, Me.
Brown, Stephen Walter, Ped.
Burdick, Harold Aiken, Ee.

Burke, Frank Valentine, Ed.
Burns, Ralph Matthew, Es.
Burr, Wilfred Chadbourne, Me.

Caplan, Lewis, Ce.
Carlin, Thomas James, Ch. Eng.
Carter, Ray Horace, Ag.
Carville, Ray Horace, Ag.
Caulfield, John George Leslie, Ch. Eng.
Chadwick, Lois Lillian, Lt.
Chalmers, James Amasa, Ch. Eng.
Chase, Harold Jasper, Me.
Christopherson, Wilbur Reed, Fy.
Clapp, Harlan Luther, Ch.
Clark, Adelbert Bruce, Dh.
Clark, Frank Howard, Ag.
Clifford, Stanley Burnham, Me.
Cloudman, Arthur Mosher, Bl.
Cooper, George Hubert, Ch. Eng.
Copeland, Mary Lillian, Ms.
Covell, Arthur Eugene, Me.
Crane, Carl Hudson, Ce.
Crehore, Sarah Elizabeth, He.
Cutting, Edward Chapman, Es.
Cyphers, Kenneth Leigh, Ee.

Davenport, Bruce Ira, Es.
Davis, Ulmer Winfield, Es.
Deuse, James Smith, Me.
Dolliver, Morris Augusta, Ch.
Donovan, John March Francis, Jr., Es.
Dow, Lowell Jordan, Ee.

Driscoll, Merwyn Ruez, Ee.
Dunham, Earl Maynard, Ps.
Durgin, Harold Lile, Ee.

Deer Isle Balentine Hall
Bangor 213 Center Street, Bangor
Sullivan 25 Oak Street
Franklin 7 Pleasant Street
Haverhill, Mass. Φ Κ Σ House
Lincolnville 407 H. H. Hall
Portland Θ X House
Foxcroft 23 Grove Street
Forest Hills, N. Y. 304 H. H. Hall

Randolph Θ X House
Houlton Σ X House
Mattawamkeag 204 H. H. Hall

Portland 74 North Main Street
Bangor 68 Pearl Street, Bangor
Washburn Σ X House
North Leeds Main Street
Bangor 189 State Street, Bangor
Machias Balentine Hall
Albion Φ Η K House
Portland Σ A E House
Gloucester, Mass. Φ Γ Δ House
Bangor 95 Sanford Street, Bangor
Millinocket 8 Middle Street
Bridgton A Σ M House
North Edgecomb 312 H. H. Hall
Saco 149 Main Street
Presque Isle 409 H. H. Hall
Brewer Balentine Hall
Hinckley 408 Oak Hall
Dover-Foxcroft Σ N House
LaGrange Practice House
Warren Φ Κ Σ House
Dexter 210 H. H. Hall

Phillips Λ Χ Α House
Machias 23 Park Street
Westbrook, Conn. 405 H. H. Hall
Manset 27 Park Street
Turners Falls, Mass. Θ X House
Amesbury, Mass.

87 North Main Street
Livermore Falls Σ N House
Dixfield Φ Κ Σ House
Randolph Θ X House
Eastman, Arthur Fessenden, Ee.
Erskine, Maxwell McLean, Ch.

Farnham, Arthur Lionel, An.
Fisher, Harry Sherwood, Ee.
Foote, John, Me.
Foster, Ralph Wyman, Me.
Frazier, Harry John, Es.
Friend, Mary Hattie, Ms.

Garland, Cecil Gladstone, Es.
Gay, Thomas Edward, Ed.
Gentile, Michael Charles, Es.
George, Albert Cedric, Es.
Gonyer, Doris Marie, Fr.
Gott, Albert Richard, Me.
Grant, Doris Mae, Ped.
Grant, Judson Milton, Ms.
Grant, Wallace Mitchell, Me.
Green, Anna Eleanor, Fr.
Greenleaf, John Adams, Me.
Griffin, Guy Eben, Ce.

Hadlock, Edwin Harold, Ms.
Ham, John Raymond, Me.
Handy, Francis Edward, Ee.
Harmon, William Edward, Ae.
Harriman, Philip Ainslee, Bl.
Haskins, William Deane, Ht.
Hatch, Theodore Frederick, Ce.
Hawes, Arthur LaFayette, Es.
Hawes, Frederick Albert, Es.
Hayes, James Louis, Ch. Eng.
Higgins, Milton Ermond, Ed.
Hills, Frederick Gilbert, Fy.
Hilton, George Carroll, Ht.
Hitchings, Barbara Gertrude, Sp.
Hodgdon, Philip Winslow, Es.
Holt, Hillis Wyman, Me.
Hoos, Benjamin, Ch. Eng.
Horsman, Louis Cecil, Ce.
Howe, Harold Walker, Me.
Hunt, Elizabeth Frances, Eh.
Hunter, Doris Elizabeth, Hy.

Wollaston, Mass.  Φ Γ Δ House
Easton  111 H. H. Hall

Orland  309 H. H. Hall
Ridlowville  312 Oak Hall
Sturbridge, Mass.  48 Mill Street
Newcastle  Φ Η Κ House
Kennebunkport  Δ Τ Δ House
Skowhegan  Balentine Hall

Bangor  K Σ House
Newcastle  Б Θ Π House
Runford  110 H. H. Hall
Fitchburg, Mass.  θ Χ House
Orono  45 Mill Street
Orland  309 H. H. Hall
Hall Quarry  Balentine Hall
Carmel  Old Town
Hall Quarry  Pine & Elm Streets
Old Town  Old Town
North Edgecomb  312 H. H. Hall
Old Town  Σ Α Ε House

Woodfords  25 Myrtle Street
Monmouth  102 H. H. Hall
Augusta  412 H. H. Hall
Caribou  θ Χ House
Orono  Σ Ν House
Saco  Α Σ М House
Dark Harbor  Λ Χ Α House
Worcester, Mass.  45 Mill Street
Orono  45 Mill Street
Biddeford  Α Τ Ω House
Bar Harbor  Stillwater
Bangor  204 H. H. Hall
Bridgton  Α Σ М House
Caribou  Balentine Hall
Portsmouth, N. H.  Б Θ Π House
North Orrington  404 H. H. Hall
Old Town  Φ Ε Π House
Presque Isle  θ Χ House
Deer Isle  Σ Α Ε House
Portland  Practice House
Rockland  Balentine Hall
Huston, Robert Daniel, Ee.
Hutchins, Bentley Staples, Fy.
Hutchinson, Ralph Melville, Fy.

Irving, Iome Belle, Eh.

Jackson, Theresa Mary, Eh.
Jacobs, David, Bl.
Johnson, Beatrice Winnifred, Bl.
Johnson, Melville Hunnewell, Ms.
Jones, Albert Eugene, Ee.
Jordan, Ina, Hy.
Jordan, Leonard Barker, Es.
Judkins, Perry Wendell, Me.

Katz, Samuel Sawyer, Es.
Keene, Alice Mary, Hy.
Kelley, Harold Lee, Es.
Kennison, Conrad Earl, Es.
Keyes, Barbara Philena, Eh.
King, Ebenezer Baker, Ce.
King, Oral Glenwood, Ce.

Ladd, Vaughn Loring, Me.
Lawrie, Christabel Finley, Ped.
Libbey, Margaret Mary, Sp.
Lindahl, Frederick Morey, Me.

Lockwood, John Elmer, Jr., Fy.
Lord, Esther Angelia, Ped.
Lord, George Edgar, Dh.
Lunge, Raymond Frank, Ed.
Luther, Justin Joseph, Me.

McCarn, Honor Burke, Lt.
MacDonald, William Rogers, Jr., Ee.
McKechnie, Dwight Landin, Ce.
McKechnie, Karl Harold, Fy.
MacKenzie, Virgil Linwood, Me.
McNamara, Raymond Leo, Ms.
Mackay, Roger Daniel, Es.
Martin, John Stanley, Ch. Eng.
Meinecke, Carl Whitcomb, Ce.

Woodfords 301 H. H. Hall
Bangor Σ N House
Houlton Φ Κ Σ House

Clinton Mt. Vernon House

Waterville Balentine Hall
Lawrence, Mass. Φ Ε Π House
Portland Balentine Hall
South Portland 312 H. H. Hall
Brighton, Mass. Κ Σ House
Seal Harbor Mt. Vernon House
Westbrook K Σ House
Upton 206 H. H. Hall

Hartford, Conn. Φ Ε Π House
Camden Balentine Hall
Lubec 56 Park Street
Madison Φ Η Κ House
Rockland Mt. Vernon House
Peabody, Mass. Σ N House
New Portland A T Ω House

Dover Α Τ Δ House
Orono 34 Middle Street
Orono 28 Pond Street
West Springfield, Mass.

Old Town 112 H. H. Hall
Bangor 7 Bowdoin Place, Bangor
West Lebanon Α Χ Α House
Kennebunk Σ N House
Hadlyme, Conn. 405 H. H. Hall

Biddeford Balentine Hall
South Portland Σ Φ Σ House
Princeton 64 Hill Street
Fairfield Α Τ Δ House
Old Town Old Town
Orono 67 Mill Street
East Milton, Mass. Σ N House
Tamworth, N. H. 410 H. H. Hall
Bangor

26 Jefferson Street, Bangor
Merrill, Julian Haskell, Jr., Fy.
Merritt, Carleton Westwood, Bl.
Messer, Louise Elinor, Fr.
Milan, Eleanor Mary, He.
Monroe, Theodore William, Hy.
Morrill, Frank Baxter, Me.
Morrill, Paul Morris, Fy.
Mulligan, James Edward, Ee.
Munsey, Virdell Everard, Ch. Eng.
Mutty, Dolores Mary, Ms.
Myers, Ellen Oshea, Es.

Nevens, Joy Leavitt, Fr.
Newell, Harry Stanley, Ed.
Noonan, Alice Beatrice, Lt.
Noyes, Albert Stevens, Ed.

Oak, Philip Tracy, Ch. Eng.
Oakes, Karl Rufus, Es.
O'Connor, Michael Henry, Ms.
O'Connor, Timothy Paul, Ce.
Osborne, Sidney, Me.
Osgood, Clayton Plummer, Dh.
Osgood, Earl Pike, An.

Patterson, William Wesley, Eh.
Peakes, Arthur Lambert, Ed.
Perch, Paul, Me.
Percival, Ethelyn Marcia, Ms.
Perkins, Belford Ashton, Me.
Perkins, Wallace Winsfield, Ee.
Plummer, Bernie Elliott, Jr., An.
Pretto, Lenora Sylvia, Fr.
Pride, Eva Sweetsir, Bl.

Raymond, Horace Waterhouse, Me.
Reiche, Howard Charles, Bl.
Reynolds, Clifford Sanford, Hy.
Richardson, Harrison Lambert, Ph.
Riecker, William Christie, Ch. Eng.
Robinson, Gerald Norman, Es.
Rosenberg, Samuel Louis, Es.
Rowe, Marjorie Harriette, He.

Oro to
South Portland
Old Town
Bangor 133 Second Street, Bangor
Milo
Milo
Biddeford 204 H. H. Hall
Damariscotta Mills 211 Oak Hall
North Edgecomb 95 Mill Street
Old Town
Oro

Woodfords
Old Town
Portland
Harrington
Norway
Bangor
Rangeley
Biddeford
Biddeford
Oro
Fryeburg

Bangor
B θ Π House
Σ N House
308 H. H. Hall
203 Oak Hall
A T Ω House
Campus

Belfast
Milo
Leominster, Mass.
Bangor
North Brooksville
Bluehill
Weld
Oro

B H K House
Σ Φ Σ House
Campus
Pine and Elm Streets

North Jay
Portland
Bingham
Oro
Portland
Bangor 473 Union Street, Bangor
Portland
Bre we

Φ H K House
B θ Π House
180 Main Street
34 Middle Street
6 Mill Street
Practice House
Sargent, Harold Dean, Ee.
Sargent, Philip Arthur, Fy.
Saunders, George Eldon, Ee.
Savage, Ruth Herrick, Fr.
Savage, Vera May, Ms.
Sayward, Warren Albert, Me.
Schultz, Stanley Merrill, Ee.
Shaw, Sterling Eugene, Es.
Shorey, Lena Etta, He.
Shapiro, Max Gerald, Fy.
Simmons, Ralph Morse, Ee.
Sinnett, Chester Maxim, Ee.
Skolfield, George Lincoln, Ee.
Skolfield, John Theodore, Me.
Small, Henry Dyer, Ms.
Small, John Alvin, Ae.
Smith, Fred Emery, Ch. Eng.
Smith, Robert Leverett, Es.
Snow, Edward Haskell, Ed.
Sparks, Regina Frances, Fr.
Sparrow, Theron Alonzo, Me.
Spear, Willard Walker, Ht.
Spearin, Clarence Milton, Ag.
Stackpole, George Kenneth, Me.
Stanley, Alice Gertrude, Ms.
Stearns, Drew Thompson, Fy.
Stevens, Carl William, Dh.
Stevens, Dearborn Bearer, Me.
Stevens, John Lewis, Ms.
Steward, Colby Weston, Me.

Sullivan, Walter Gregory, Ee.
Swcatt, Chester Volney, Fy.
Swett, Stanton LaForest, Me.

Taylor, Philip Hector, Es.
Tibbetts, Sylvia Elizabeth, Ch. A.
Tourangeau, Theodore Joseph, Ce.
Townsend, John Lawrence, Me.
Trask, Harvey Richard, Me.
Twitchell, Edythe Gertrude, Ed.
Urann, Arthur Reed, Ee.

Patten
Sargentville
Townsend, Mass.
Bangor
Bangor
Alfred
Lisbon Falls
Caribou
Thomaston
Newport
Belfast
Bailey Island
Weld
Brunswick
Brewer
Newport
Oroko
Westbrook
Gloucester, Mass.
Bluehill
Old Town
Hampden Highlands
South Portland
Clinton
Sanford
Bangor
Hebron
Millinocket
Ashland
Portland
St. Johnsbury, Vt.

Augusta
Oroko
Andover
Mexico
Vanceboro
Westbrook
South Portland
Randolph
Old Town
Ellsworth

Θ X House
Δ X Δ House
Mt. Vernon House
Balentine Hall
102 Oak Hall
6 Myrtle Street
7 Pleasant Street
Practice House
401 Oak Hall
109 H. H. Hall
Σ Ζ Σ House
Φ K Σ House
Σ X House
Campus
24 Mill Street
101 H. H. Hall
Δ Τ Δ House
Σ X House
Old Town
Σ N House
Σ X House
205 H. H. Hall
B Θ Π House
Mt. Vernon House
Σ N House
Σ Α E House
Φ Η Κ House
Σ Α E House
46 College Road
Σ X House
212 Main Street
204 H. H. Hall
312 Oak Hall
Φ Γ Δ House
Balentine Hall
Σ Α E House
207 H. H. Hall
Β Θ Π House
Balentine Hall
Σ Φ Σ House
JUNIORS

Waterhouse, Ruth, He.
Waterhouse, Ruth Elva, Ed.
Webb, George Hersey, Fy.
Wentworth, Helen Bernice, Eh.
Wescott, Donald Henry, Fy.
Westcott, Guy Sterling, Ee.
Wheeler, Grant Julius, Bl.
Whitcomb, Morton Church, Ed.
White, Blair Coburn, Eh.
White, Lewis Henry, Ce.
Whiteside, Elizabeth Mildred, Sp.
Whitten, Charles Albert, Ce.
Whitten, Hugh Otis, Ce.
Wiley, Arthur Osgood, Me.
Wiswell, Harry Steves, Fy.
Wood, Herbert James, Ed.
Woodbury, Kenneth Foster, Ed.
Woods, Phillip Edgar, Ce.
York, George Oscar, Fy.

English

Abbott, Floyd Nelson, Es.
Allen, William Mayo, Es.
Andrews, Egbert Morrill, Bl.
Armstrong, Grace Phelps, He.
Arnold, Philip Elmer, Ed.
Aronson, Eli, Me.
Ashley, Anna Jorgenson, Eh.
Atkins, Katherine Emily, Lt.
Bailey, Irving Stanley, Es.
Bailey, Margery Evelyn, Ps.
Banks, Curtis Forbush, Ce.
Bean, Hervey Selden, An.
Behringer, John Stephen, Sp.
Bennett, Ralph Richard, Ce.
Berce, Hudson Carlton, Ag.
Besse, Arlene Day, Sp.
Blair, James Tweedie, Ag.
Blake, Ralph Scott, Ch.
Blethen, Lawrence Burton, Me.
Boucher, Clement Wendell, Ce.
Biddeford
Old Town
Bartlett, N. H.
Bangor
Jonesport
Sebago Lake
East Orange, N. J.
Ellsworth
Bangor 64 Garland Street, Bangor
Wayne
Sanford
New Portland
Farmingdale
Gardiner
Machias
Lewiston
New Gloucester
Kittery

Old Town

Albion
Portland
Gray
Rockland
Portland
Hartford, Conn.
Bangor

A T Ω House
Θ X House
Σ N House
Balentine Hall
Θ X House
Δ X Δ House
A X A House
10 Summer Street
Balentine Hall
Balentine Hall

Waldoboro
Dexter
Westboro, Mass.
Vienna
Elmhurst, N. Y.
Lancaster, N. H.
Caribou
Albion
Medford, Mass.
Houlton
Foxcroft
Groveton, N. H.

Φ Γ Δ House
Balentine Hall
Σ X House
306 H. H. Hall
304 H. H. Hall
Θ X House
7 Pleasant Street
Mt. Vernon House
Δ T Δ House
Σ X House
A X A House
203 H. H. Hall
BOWDEN, Mervin Ives, Dh.
Boyden, James Parker, Jr., Es.
Brackett, Madalene, Ms.
Bragg, Herbert Edward, Ee.
Bridgham, Edward Theodore, Me.
Brown, Edna Elizabeth, Ms.
Brown, Mildred Greeley, He.
Brown, Stephen Sylvester, Bl.
Bryant, Hortense Genevieve, Lt.
Burbank, Charles Payson, Ht.
Burton, Helen Charlotte, Py.
Burton, Raymond Harold, Fy.

Cambell, Charles Osborne, Fy.
Cambell, Chester Wendell, Ce.
Candage, Harry Wells, Es.
Chalmers, Lindsay Billings, Es.
Chandler, John Winthrop, Ce.
Chase, Kenneth Webster, Ee.
Chippendale, John Thomas, Jr., Es.
Clark, Lewis Bates, Ped.
Clarke, Catherine Louise, Eh.
Clements, Norris Charles, Ht.
Coburn, Aura Eugene, Es.
Collins, Charles Sidney, Ee.
Comins, Rubena Isabella, Lt.
Comstock, Virgil Wesley, Ch. Eng.
Conant, Charles Tyler, Dh.
Connor, Lawrence Coney, Fy.
Coughlin, Madeline Elizabeth, Lt.
Crowley, Fred Joseph, Me.
Curran, Edward Matthew, Es.
Cutts, Cecil Jewett, Ms.

Bluehill
Brookline, Mass.
Milo
Bangor
Brewer
Bangor
Readfield Depot
Mars Hill
Portland
Yarmouth
Sangerville
Portland

Gray
Gray
Waterville
Albion
Newcastle
Cumberland Center
Auburn
Rockland
Pemaquid
Winterport
Dover-Foxcroft
Portland
Brewer
Old Town
Winterport
Bangor
Brewer
Biddeford
Bangor
Portland

Princeton
Castine
Castine
North Conway, N. H.

Vergennes, Vt.
Claremont, N. H.
Bangor

84 Highland Street, Bangor
JUNIORS

Dean, Elwin Linwood, Es.
DeCosta, Blanche Mai, Ped.
Dole, Francis Stone, Ch. Eng.
Donovan, Charles Bradford, Me.

Doughty, Randall Hubert, Ch. Eng.
Douglas, Helene Elizabeth, Eh.
Dow, Doris Belle, He.
Downing, John Philip, Ht.
Dunton, James William, Ce.
Dyke, Howard Hamlin, Es.

Eastman, Carl Burleigh, Me.
Eastman, Tobias Clifford, Fy.
Edwards, Fred Blodgett, Es.
Elliott, Wilmer Rogers, Dh.
English, Benjamin Worth, Me.
Erskine, Paul Franklyn, Me.
Everett, Vaughn Beveridge, Ce.

Farrar, Frances Sarah, Ms.
Fayle, Leslie Edwin, Es.
Field, Vena Bernadette, Eh.
Fifield, Doris Frances, Es.
Finley, Raymond Stevens, Ped.
Fisher, Sarah Louise, He.
Fitzhenry, Raymond Chester, Fy.
Fletcher, Mary Eva, Bl.

Fogg, Madeline, Fr.
Fowler, Enna Wilbur, Lt.

French, Fred Cyrus, Me.
French, William Louis, Es.
Friedman, Leo, Ch. Eng.
Fuller, Annie Myrtle, Hy.

Gallison, Kathleen Elizabeth, Bl.
Gerrish, Harold Lewis, Ee.
Goldberg, David Abraham, Es.
Goldsmith, Isador Keith, Es.
Gorden, Rachel, He.
Greenlaw, Helen Elaine, Sp.

Greenville Junction

South Portland
South Brewer
North Andover, Mass.

Cumberland Center
Brunswick
Atkinson
Bangor
Bath
Livermore Falls

West Buxton
Fryeburg
Shelburne, N. H.
Patten
New Haven, Conn.
Portland
Fort Fairfield

Princeton
Old Town
Vanceboro
Vinalhaven
Augusta
Fort Fairfield
Lubec
Vanceboro

28 Patten Street, Bangor

Bangor
South Portland

Andover
Turner
Augusta
Hartland

Bangor
Brownville
Old Town
Bangor
Livermore Falls
Masardis

Augusta
34 Middle Street
Balentine Hall

Fort Fairfield
Balentine Hall

Lubec
K Σ House

Bangor
Balentine Hall

Vanceboro
Balentine Hall

Balentine Hall

Andover
102 H. H. Hall
Balentine Hall

Turner
101 Oak Hall
Balentine Hall

Augusta

Balentine Hall
Griffiths, Eugene Benjamin, Bl.
Gruhn, George Herman, Fy.

Hagerthy, Lawrence Milton, Bl.
Hanington, Edith Mills, Eh.
Hanley, Margaret Leonard, Sp.
Hardy, Oral Alton, Ht.
Harris, Mary Barrows, Bl.
Haskell, George Albert, Me.
Haskell, Robert Nelson, Ee.

Hastings, Donald Francis, Ee.
Hill, Alice Rider, Hy.
Hobson, Ralph William, Dh.
Holbrook, Alfred Leroy, Dh.
Houghton, Amory McLellan, Jr., Fy.
Humphrey, Orman Julian, Ce.
Hussey, Frank Washburn, Ag.
Hutchings, Roland Lee, Ce.
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, Maurice Burton, Me.
Jordan, Shirley Webster, Ee.

Kaakinen, Aaro, Fy.
Kelleher, George Francis, Fy.
Kittredge, Murray Kent, Es.
Lambert, William Burnham, Ch. Eng.
LaPlant, John Ervin, Ht.
Lawler, Elizabeth, Sp.

Lawry, John Ansel, Me.
Leighton, Cecil Victor, Ee.
Lejonhуд, Carl August, Me.
Libby, Alice Maude, Eh.
Libby, Carl Freeman, Me.
Libby, Paul Wescott, Es.

Presque Isle 409 H. H. Hall
Columbus, Wis. K Σ House

Sedgwick Σ Φ Σ House
Calais Balentine Hall
Thomaston Balentine Hall
Stillwater Stillwater
LaGrange Balentine Hall
Lincoln 410 H. H. Hall
Bangor

645 Hammond Street, Bangor

Rockland K Σ House
Orono 391 College Road
Portland Α Σ Μ House
North Anson 111 Oak Hall
Bath Α Τ Ω House
Bangor Φ Η Κ House
Presque Isle Φ Η Κ House
Orland 210 H. H. Hall
Brunswick Φ Η Κ House
Saco K Σ House

Gorham 202 H. H. Hall

Rockland, Mass. Σ N House
Princeton 307 H. H. Hall
Orono 48 Pine Street
Brownville Σ N House
Portland Stillwater
Mechanic Falls Φ Η Κ House

Worcester, Mass. 210 Oak Hall
Ware, Mass. 10 Summer Street
Milo 410 H. H. Hall
Brewer 111 Oak Hall
Gardiner Α Σ Μ House
Southwest Harbor

Mt. Vernon House

Fairfield
Woodland B Θ Π House
South Portland College Road
Vinalhaven Balentine Hall
Biddeford Σ Α Ε House
Gray Σ Α Ε House
Lincoln, Frank Louis, Ce.
Linkeken, Elizabeth Marietta, He.
Lineken, Maynard George, Fy.
Linscott, Paul Harding, Fy.
Little, Guibert Raymond, Ce.
Littlefield, Walter Arnold, Es.
Loomis, Mary Elizabeth, Eh.
Loring, Harold Clayton, Ee.
Lunt, Annie Pearl, Eh.

Lynch, Arline Frances, Lt.

McCobb, John Lombard, Ce.
MacDougall, Julia Douglass, He.
McPhetres, Madeline Marie, Ms.
Macdonald, Harry Eugene, Jr., Bl.
Mahoney, Kathleen Anne, Eh.
Mahoney, Nan Louise, He.
Mangan, John William, Me.
Marr, Frank Wesley, Ee.
Martin, Anna Elizabeth, Hy.
Meservie, Charles Erleand, Es.
Modery, Harold Kenneth, Ce.
Moody, Charles Frederick, Fy.
Moody, Dwight Lyman, Ped.
Morrison, Robert Wentworth, Ce.

Mossler, Dorothy Edwina, Ms.
Mullin, LeRoy Allen, Ee.
Murray, Joseph Magee, Bl.
Muzzey, George Aldrich, Ce.

Nelson, Mildred Lillian, Fr.
Nevells, Frederick Leroy, Ee.
Nichols, James Albert, Jr., Eh.

Norwood, Hope, He.

O'Leary, Kathleen Cecilia, Ped.
Osborne, Elwood Noyes, Ce.
Osborne, Mildred Eleanor, Lt.

Houlton  θ X House
Thomaston  Balentine Hall
Thomaston  Σ Α Ε House
Brownfield  B Θ Π House
Portland  25 Grove Street
Orono  188 Main Street
Yaleville, Conn.  Balentine Hall
Portland  K Σ House
Cherryfield  70 Court Street, Bangor
Brewer  Brewer

Orono  5 Summer Street
Milo  Balentine Hall
Bowdoinham  Σ Φ Σ House
Sangerville  Campus
Bangor  259 State Street, Bangor
Biddeford  Balentine Hall
Caribou  Balentine Hall
Pittsfield, Mass.  203 H. H. Hall
Island Falls  402 H. H. Hall
Biddeford  Balentine Hall
Morrill  33 Bennoch Street
Orono  87 Park Street
Saco  K Σ House
Danforth  10 Mill Street
Bangor  36 Everett Street, Bangor
South Brewer  Balentine Hall
Cape Elizabeth  305 H. H. Hall
Hampden Highlands  Φ Γ Δ House
South Berwick  Stillwater

Brewer  Balentine Hall
South Portland  202 H. H. Hall
Bangor  85 Cumberland Street, Bangor
Southwest Harbor  Balentine Hall

Brewer  Balentine Hall
Fairfield  206 H. H. Hall
Bangor  Balentine Hall
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, Ee.
Perkins, Frances Elizabeth, He.
Perry, Alton Church, Ed.
Phipps, Carl Leonard, Fy.
Pickard, Morita Jessie, Fr.

Pierce, Alberta Getchell, Gm.
Pierson, Ellen Victoria, Lt.
Pike, Robert Smith, An.
Pillsbury, Dan Abner, Dh.
Porter, Frances Hope, Eh.
Powell, Donald William, Ce.
Pressey, Harold Elbert, Py.
Prouty, Kenneth Alton, Es.
Purinton, Bernice Irene, Hy.

Quincy, Sara Louise, He.

Rafferty, Robert William, Es.
Reed, Leona Kathleen, Eh.
Reed, Reginald Lee, Ce.
Repscha, Albert Henry, Me.
Rich, Robert Pratt, Es.
Rich, William Wallace, Jr., Es.
Ridlon, Ernest Starr, Me.
Ridlon, Hilton Joseph, Ch. Eng.
Ring, Carl Edwin, Me.
Ring, Chester Allan, Jr., Ce.
Roberts, Philip Carroll, Ch. Eng.
Robinson, Frank Lawrence, Ee.
Robinson, Vaughn Belyea, Bl.
Rogers, Howard LaForrest, Ce.

Sanborn, Doris May, Fr.
Savage, Hoyt Bernard, Fy.
JUNIORS

Scannell, Walter Daniel, Ce.
Schwartz, Nathan James, Es.
Scott, Ernest Burns, Ee.
Sennett, Lincol Asher, Ms.
Sewall, Rufus Shirley, Fy.
Shepherd, Francis Greenwood, Ee.
Sherman, Owen Frederick, Ed.
Silverman, Herman Samuel, Ee.
Smart, Edgar Solomon, Fy.
Smart, Stanislaus Joseph, Ee.

Smith, Charles Joseph, Ch. Eng.
Smith, Hollis Ayer, Fy.
Smith, Revere Rand, Ee.
Smith, Virgil Calderwood, Me.
Snow, Edwin Payson, Dh.
Soderberg, Frederic Arnott, Ch. Eng.
Stone, Roger Bessom, Es.
Stowell, Hubert Kirke, Fy.
Stuart, Clara Campbell, Ped.
Sullivan, Daniel Laurence, Fy.

Thornton, Prescott Ervin, Dh.
Thurston, Annie Belle, He.
Tozier, Claude Hill, Es.
Tracy, Clayton Allan, Ce.
Truant, Donald Lynn, Ms.
Turner, Alden Herbert, Es.
Turner, Otto Chessman, Ee.
Twombly, Earle Cecil, Me.
Tyndall, Balfour Sterling, Bl.

Worchester, Mass. 30 Mill Street
Portland  Φ E II House
Gardiner  Θ X House
Albion  4 Myrtle Street
Wiscasset  312 H. H. Hall
Gloucester, Mass.  Σ Φ Σ House
Randolph  Δ T Δ House
Portland  107 Oak Hall
Winterport  303 Oak Hall
Port aux Basques, 32 Peters Street

Dixfield  Δ X A House
Haverhill, Mass.  Φ K Σ House
Hollis Center  Stillwater
Vinalhaven  305 Oak Hall
Bangor  308 Oak Hall
Bangor  K Σ House
Swampscott, Mass.  K Σ House
Dixfield  College Road
Eastport  Balentine Hall
Reading, Mass.  10 Summer Street

Springfield  Λ Σ M House
South Union  Balentine Hall
Albion  Δ Τ Ω House
Orono  56 Park Street
Augusta  Σ Φ Σ House
Topsham  Φ Η Κ House
Livermore  Β Θ Π House
Newburyport, Mass.  Δ Τ Ω House
Brockton, Mass.  Δ T Δ House

Orono  38 Penobscot Street
Orono  Stillwater Avenue
Manset  10 Beech Street
Berlin, N. H.  Balentine Hall
Brewer  Balentine Hall
Biddeford  Balentine Hall
Randolph  Σ X House
Houlton  Δ X A House
Bangor  224 Essex Street, Bangor
Framingham Center, Mass.

K Σ House
Whittier, Philip Page, Es.
Willis, Kleba Leslie, Es.
Winter, Harold Lewie, Fy.
Wixson, Charles Wesley, Ps.
Woodard, Pearl Ruby, Sp.

BANGOR 71 Grant Street, Bangor
Harmony  Σ Φ Σ House
Livermore Falls  Σ Φ Σ House
Waterville  304 H. H. Hall
Greenville Junction Balentine Hall

SOPHOMORES

Aldrich, Edson Elery, Ee.
Andrews, Edith Alice, Hy.
Andrews, Katherine Lowell, Es.
Armstrong, Elizabeth, Es.
Ascher, John Philip, Ee.
Atwood, Paul Elliott, Fy.

Babb, Myron Francis, Ag.
Bailey, William Leonard, Ce.
Baker, Gerald Franklyn, Fy.
Barker, Elliott Eveleigh, Bl.
Barker, Kenneth Watson, Ag.
Barrows, Willis Manning, Ee.
Baston, Chester Edwin, Ee.
Baxter, Charles Leslie, Ce.
Baylin, Felix Ralph, Bl.

Bean, Robert Holly, Ee.
Beaudette, Wilfred Arthur, Jr., Eh.

Bewket, Christine Esther, Fr.
Beedle, Llewellyn Woodward, Hy.
Billings, Maurice Preston, Ee.

Bischoff, Carl Henry, Ce.
Boothby, Margaret Foster, He.
Boston, Albro Roswell, Me.
Bowden, Hervey Francis, Hy.
Breaden, Effie Harris, He.
Brennick, Hudson Lawrence, Es.
Brewer, Frances Hazel, Lt.
Brewster, Arthur Wells, Es.
Brown, Jasper Sumner, Ch.
Bryant, Vernon Carlton, Eh.
Bubar, Arthur Elden, Ag.
Buck, Laurence Lyman, Ee.

Brewer Bangor
Canton Brewer
Glenmere Brewer
Galveston, Texas Brewer
New York City Brewer
South Paris Brewer
Malden, Mass. Brewer
Bangor Brewer
Bridgewater Brewer
Dover-Foxcroft Brewer
Dover-Foxcroft Brewer
East Millinocket Brewer
Rockland, Mass. Brewer
Sydney, Nova Scotia Brewer

25 Grove Street Brewer
B Θ Π House Brewer
311 H. H. Hall Brewer
Δ Τ Δ House Brewer
205 H. H. Hall Brewer
Σ Ν House Brewer
32 Pierce Street Brewer
60 Park Street Brewer
29 Bennoch Street Brewer

Calais Mt. Vernon House Brewer
Sargentville 309 H. H. Hall Brewer
Southwest Harbor Brewer
Franklin, Mass. Brewer
Gorham Brewer
Haverhill, Mass. Brewer
Brooks Brewer
Dresden Mills Brewer
Rumford Brewer
Bar Harbor Mt. Vernon House Brewer
Brockton, Mass. Brewer
180 Main Street Brewer
Wenham, Mass. Brewer
Lincoln Brewer
Fort Fairfield Brewer
Stillwater Brewer
Bennoch Street Brewer
25 Grove Street Brewer
Balentine Hall Brewer
Σ Φ Σ House Brewer
180 Main Street Brewer
Balentine Hall Brewer
Σ Φ Σ House Brewer
72 Main Street Brewer
Stillwater Brewer
Bunton, Walter Joseph, Ed.
Burnham, Allen, Ag.
Burr, Maurice Holyoke, Fy.
Buzzell, Francis Guernsey, Ag.

Cahill, George Albion, Jr., Me.
Carr, Philip Floyd Joseph, Ch. Eng.

Carroll, Burton Roberts, Es.
Casey, Lawrence King, Ce.
Chandler, Frederick Barker, Ag.
Chaplin, Kera Joan, Ms.
Chapman, Kenneth Cayford, Ee.
Chase, Ezekiel Leith, Ce.
Chellis, Allen Morris, Ee.
Cheney, Irvil Harry, Ag.
Clark, Lawrence Copeland, Es.
Coffin, Edgar Derrickson, Ee.
Coffin, Margaret Winona, Es.
Cohen, Ada, Ms.

Coleman, Sidney Bowers, Ee.
Crawford, Earle Dana, Ee.
Creamer, Ansel Samuel, Ch. Eng.
Crozier, Harold Eugene, Ed.
Curran, Laurence Edward, Fy.
Curren, Levi Addison, Bl.
Cutting, Wallace Austin, Ce.
Cyr, Edgar Ralph, Ce.

Dakin, Leone Mae, He.
Davis, Norman Sewell, Ag.
Doraney, Fred Hanna, Bl.
Diehl, Richard Burton, Fy.
Doerr, Albert Hugo, Es.
Doherty, Joseph Daniel, Ch. Eng.
Donovan, Douglas Edward, Es.
Dooey, Merrill Harmon, Lt.
Dowd, Clarence Michael, Fy.
Dudley, Ralph Floyd, Ce.
Dufour, John Leo, Ag.
Dunlap, Louis Alfred, Ag.
Dunning, Wilhelmina Frances, Bl.
Durgan, George Arthur, Me.
Durrell, John Robert, Es.
Dwelley, Linwood Lyle, Fy.

Eaton, Henry Boardman, Fy.
Eaton, Marion Charlotte, Lt.
Elliott, Wallace Henry, Ag.
Emery, Cora Ellen, Ch. A.
Emery, Harlan Julien, Ag.
Emmons, Charles Ellsworth, Es.

Farquhar, John Dick, Ce.
Feeney, Elton Olney, Ee.
Fenlason, Audrey Emma, Fr.

Field, Madeline Hazel, Eh.
Fletcher, Carlton Wentworth, Ee.
Fouts, Edward Lee, Fy.
Foster, John Henry, Es.
Fraser, Margaret Mary, Lt.
Fraser, Oren Foss, Ag.
Frost, Harlord Stuart, Ce.

Gardner, Howard Merton, Me.
Gero, Charles Edward, Ch. Eng.
Getchell, Williams Bassett, Jr., Ce.
Giddings, Spofford, Ch. Eng.
Gillen, Madeline Mary, Hy.
Ginsberg, Samuel Fine, Es.
Glenn, John Donald, Es.
Goff, Lester Vernon, Ag.
Gonyer, Edmund Eugene, Ce.
Graffam, Pearl Roberta, Eh.
Griffin, Phyllis Gertrude, Lt.
Guernsey, Thompson Lyford, Es.

Haley, Francis Nelson, Ed.
Hamer, Harry Northin, Fy.
Hamiliton, John Murray, Es.
Hamlet, Robert Crosby, Fr.
Ham, Cecile Elizabeth, Bl.
Hamner, Alfred Willis, Jr., Ch. Eng.
Hart, Clarence Eugene, Ce.
Haskell, Ernest Edward, Eh.
Hayes, Allen Milliken, Bl.

Stratton
Meddybemp

Calais
Winterport
Presque Isle
Bar Harbor
Salisbury Cove
Kennebunk

Gilbertville, Mass. 4 Myrtle Street
Portland
North New Portland

Vanceboro
Bangor
Washington, D. C.
Portland
Berlin, N. H.
Medford, Mass.

Charleston
Waterville
Augusta
Augusta
Bangor
Old Town
Caribou
Hollis Center
Orono
Bangor
Houlton
Dover-Foxcroft

Lynn, Mass.
Methuen, Mass.
Atlantic, Mass.
Bowdoinham
Orono
Wethersfield, Conn.
Orono
Morrill
North Berwick

Σ N House
K Σ House
Φ Γ Δ House
Mt. Vernon House
K Σ House
Mt. Vernon House
Σ N House
Σ A E House
Σ X House
Balentine Hall
Balentine Hall
B Θ Π House
B Θ Π House
Balentine Hall
Mt. Vernon House
Old Town
Balentine Hall
Balentine Hall
Φ K Σ House
Σ X House
302 H. H. Hall
Δ T Δ House
B Θ Π House
16 Oak Street
403 H. H. Hall
17 Middle Street
Balentine Hall
269 State Street, Bangor
Heistad, Trygve, Ce.
Higgins, Ernest Harold, Bl.
Hillman, Arthur Sewall, Bl.
Holdsworth, Fred William, Fy.
Hunt, Kathleen Joyce, Eh.
Huntley, Hugh Bentley, Ce.
Hurd, Mark Alma, Ag.
Hussey, Harold Albert, Ee.
Jackson, Ralph Christa, Fy.
James, Wilson Goucher, Es.
Johnson, Mervin Twitchell, Ce.
Johnson, Reginald Foss, Fy.
Jones, Clyde Percival, Es.
Jordan, Bryce Meredith, Ag.
Keen, Louis Burbank, Ce.
Kelley, Arthur Johnson, Ce.
Kelley, Irving Barstow, Me.
Kennard, George Harrison, Ce.
Keyes, Joseph Fred, Ch. Eng.
Knowles, Bernard Daniel, Es.
Kolouch, Joseph Frederick, Ch. Eng.
Ladner, George Ora, Es.
Lake, Malcolm Fred, Ag.
Lane, Charles Valentine, Ag.
Larkin, Mary Loretto, Fr.
Larrabee, John Kenneth, Es.
Laughlin, Elizabeth Helen, Ms.
Leman, Ruth, He.
Lerette, Irene Mary, Fr.
Littlefield, Fred Elmer, Me.
Littlefield, George Trowbridge, Ce.
Look, Winona Retta, Eh.
Lucas, Wesley Elmore, Es.
Lunt, Everett Manson, Ee.
McCann, Everett Francis, Hy.
McCormick, John Edward, Ed.
MacCracken, Jack Allan, Ee.
Rockport 302 H. H. Hall
Meriden, Conn. 23 Pond Street
Island Falls Φ H K House
Methuen, Mass. Σ A E House
Portland Balentine Hall
Bangor 185 Center Street, Bangor
Pittsfield Φ K Σ House
Woolwich 310 Oak Hall
Portland A X A House
Bangor 23 McKinley Street, Bangor
New Britain, Conn. Φ H K House
Hancock K Σ House
Bangor Earle Avenue, Bangor
Cape Elizabeth Σ N House
Malden, Mass. Φ Γ Δ House
Jonesport 209 H. H. Hall
Orono B Θ Π House
West Baldwin 210 H. H. Hall
Bucksport 212 Oak Hall
North New Portland K Σ House
New Bedford, Mass. 302 Oak Hall
Ladner, George Ora, Es.
Lake, Malcolm Fred, Ag.
Lane, Charles Valentine, Ag.
Larkin, Mary Loretto, Fr.
Larrabee, John Kenneth, Es.
Laughlin, Elizabeth Helen, Ms.
Leman, Ruth, He.
Lerette, Irene Mary, Fr.
Littlefield, Fred Elmer, Me.
Littlefield, George Trowbridge, Ce.
Look, Winona Retta, Eh.
Lucas, Wesley Elmore, Es.
Lunt, Everett Manson, Ee.
McCann, Everett Francis, Hy.
McCormick, John Edward, Ed.
MacCracken, Jack Allan, Ee.
Orotoe Park Street
Wilton A X A House
Red Beach A Σ M House
Washburn Balentine Hall
Kennebunk 404 H. H. Hall
Portland Mt. Vernon House
Liberty Balentine Hall
Hallowell 82 Main Street
Brewer Φ K Σ House
Newburyport, Mass. A T Ω House
Jonesboro Balentine Hall
Portland Θ X House
Dover-Foxcroft 402 Oak Hall
East Millinocket 68 Pine Street
Pittston 87 North Main Street
Calais 310 Oak Hall
Monmouth  Σ Α Ε House
Woodfords  102 H. H. Hall
Wiscasset  211 H. H. Hall
Bath  Φ Γ Δ House
Bangor  275 Center Street, Bangor
Calais  Σ Χ House
Brockton, Mass.  Δ Χ Δ House
Bangor  74 James Street, Bangor
Bath  7 Pleasant Street
Sanford  212 H. H. Hall
Augusta  Δ Τ Δ House
Caribou  302 H. H. Hall
Brooklyn, N. Y.  Φ Ε Π House
Dorchester, Mass.  Φ Ε Π House
Randolph  Β Θ Π House
Orono  College Road
Bangor  107 Highland Street, Bangor
Franklin  7 Summer Street
Bluehill  Balentine Hall
Calais  303 H. H. Hall
Portland  Δ Χ Δ House
Lynn, Mass.  Φ Γ Δ House
Waldoboro  402 H. H. Hall
Gardiner  212 H. H. Hall
Bangor  26 Kenduskeag Avenue, Bangor
Orono  356 College Road
Lexington, Mass.  Δ Τ Δ House
Deer Isle  54 Pine Street
Dorchester, Mass.  211 H. H. Hall

Winterport  308 Oak Hall
Boothbay Harbor  K Σ House
Presque Isle  Balentine Hall
Lexington, Mass.  Φ Γ Δ House
Brownville Junction  212 H. H. Hall

Lisbon Falls  203 H. H. Hall
Ashland  Θ Χ House
Orono  60 Forest Avenue

Bangor  193 Broadway, Bangor
Bangor  Balentine Hall
SOPHOMORES

Oliver, Velma Katherine, Lt. Orono 134 College Road
Olsson, Albert Hilmer, Me. Portland 134 College Road
Osgood, Beulah Elizabeth, He. Bangor 64 Boyd Street, Bangor
Osgood, Charlotte Louise, He. Portland 134 College Road

Pannoni, Anthony John, Ce. Dexter Balentine Hall
Parkman, Ralph Rowe, Ee. Litchfield, Conn. Phi Kappa Sigma House
Parsons, Delmont, Ee. Orono 134 College Road
Passmore, Clarence Kimball, Ee. Orono 134 College Road
Patterson, Arthur Donald, Es. Fall River, Mass. 32 Pierce Street
Paul, Hugh Carl, Bl. Hartland 25 Grove Street
Payson, Osborne Lord, Ag. Portland Sigma Xi House
Peabody, Arvilla Drew, Fr. Bangor Delta Tau Delta House
Perkins, Edith Alma, Sp. Vinalhaven Kappa Sigma House
Perkins, Maurice Augustus, Jr., Ee. Island Falls Theta Xi House
Peterson, Herbert Minty, Es. Brooks 402 H. H. Hall
Peterson, Sidney Botolph, Ee. Portland Mt. Vernon House
Pettengill, Herbert Donald, Es. Hallowell Balentine Hall
Pike, Joseph Bennett, Ag. Machias Delta Tau Delta House
Plate, William Bernhard, Es. Devens, Conn. 390 College Road
Plumer, Kenneth Osmon, Ee. Brighton, Mass. Delta Tau Delta House
Poor, Sylvester Levi, Ce. Island Falls Theta Xi House
Priest, Hubert Eugene, Es. Bridgeton 29 Bennoch Street

Raichlen, Samuel, Es. Brooklyn, N.Y. Sigma Nu House
Ray, Theda Adelaide, He. Portland Sigma Xi House
Reed, Elmer Merrill, Ch. Eng. Portland Balentine Hall
Rhoda, Madeleine Stimson, Lt. Dover-Foxcroft 106 Oak Hall
Richards, Sumner Fernald, Ch. Portland Balentine Hall
Roberts, Shirley Janet, He. Portland Balentine Hall
Roche, Mary Mullen, Lt. Bangor 76 Summer Street, Bangor
Rollins, Willis Rich, Ed. Portland Delta Tau Delta House

Ross, Ellsworth Lincoln, Ce. Columbia Falls Kappa Sigma House
Ross, Stanley Willard, Es. Brewer Brewer
Rowe, Philip Allison, Es. Caribou Alpha Sigma Mu House
Rowe, Theodore Spurling, Me. Orono 72 Penobscot Street
Ryder, Richard Earl, Ag. Standish 101 H. H. Hall

Samways, Mary Isabel, Eh. South Brewer Balentine Hall
Sanborn, Leon Melville, Ee. Brewer Brewer
Sargent, Anna Leslie, Eh. Augusta 64 Hill Street
Saulsbury, Laforest Stephen, Me. Augusta 64 Hill Street
Sawyer, Herbert Hunt, Ce.
Sawyer, Simear Ferris, Es.
Schroeder, John Kenneth, Fy.
Severance, Fred Herbert, Ee.
Sherer, Charles Albert, Me.
Shorey, Doris Ida, Ms.
Shur, Barnett Israel, Es.
Small, Howard Houghton, Es.
Snow, Aubrey Hamilton, Ee.
Snow, Oliver Russell, Fy.
Somers, Vernon Howe, Fy.
Simon, Joseph Charles, Ce.
Sprague, Muriel Florence, Ms.
Standish, Myles Hodsdon, Fy.
Stanton, Edward Fuller, Ce.
Staples, Arthur Justin, Me.
Stevens, Alfred Fletcher, Ee.
Stevens, Earle Maynard, Me.
Stewart, Robert Chevalier, Fy.
Stilphen, Norman Edgar, Me.
Stover, Clyde Norton, Me.
Sumner, Laurence Keith, Eh.
Sweatt, John Henry, Es.
Tapley, Emery Wasson, Bl.
Tate, Robert Austin, Ag.
Taylor, Harold Albert, Es.
Thompson, Esther Louise, Fr.
Thompson, George Lemar, Me.
Thurston, Laurence Guy, Ch. Eng.
Tibbetts, Hugh Scott, Ag.
True, William Henry, Jr., Ag.
Turner, Robert Edgar, Fy.
Uong, Diong Dick, Ch. Eng.
Varnum, Muriel L'Vesta, Lt.
Walker, Owen Alford, Es.
Ward, Charles Francis, Ms.
Washburn, Mamie Arlene, He.
Waterhouse, Edwin Cooper, Hy.
Weatherbee, Francis Eugene, Fy.
Bangor 241 State Street, Bangor
Newcastle  Σ X House
Kennebunk  Δ T Δ House
Rockland  Φ K Σ House
Dover-Foxcroft  Balentine Hall
Portland  Σ Φ Σ House
Portland  311 Oak Hall
Atkinson  25 Grove Street
Northeast Carry  89 Howard Street, Bangor
Millinocket  8 Middle Street
Corinna  Balentine Hall
Gardiner  Θ X House
Hartford, Conn.  Β Θ Π House
Washburn  Estabrooke Hall
Oakland  Κ Σ House
Woodfords  202 H. H. Hall
Dorchester, Mass.  302 Oak Hall
Sanford  Λ X Λ House
York Beach  Α Τ Ω House
Steuben  105 Oak Hall
Andover  Φ Η Κ House
West Brooksville  College Road
East Corinth  Φ Η Κ House
Rumford  Σ N House
Bangor  Mt. Vernon House
Ashbury Park, N. J.
Rumford  Λ X Λ House
Vanceboro  Φ Κ Σ House
Portland  38 Oak Street
Walpole, Mass.  Σ Α Ε House
Φ H K House
Foochow, China  306 H. H. Hall
Alexander  Balentine Hall
Sanford  101 H. H. Hall
Kennebunk  Σ N House
Presque Isle  Balentine Hall
Old Town  Σ Λ Ε House
Lincoln  Σ N House
Mount Vernon House
FRESHMEN

Wheeler, Gerald Silas, Fy. Bangor Φ Γ Δ House
Whitcomb, Karl Beecher, Ce. Orono Κ Σ House
Whitcomb, Seth Ashley, Ce. Readfield 306 Oak Hall
Whitmore, Ralph Ervin, Ee. Bangor

Wilkins, Austin Horatio, Fy. 124 Jackson Street, Bangor
Willett's, Frances Mae, Eh. Hartland Φ Κ Σ House
Wilson, Kenneth Cony, Ag. Bangor Mt. Vernon House
Wing, Gerald Everett, Fy. Orono Bennoch Street
Wood, Ivan Martelle, Eh. Flagstaff Σ Α Ε House
Wood, Jessie Hammill, Ch. North Anson 203 Oak Hall
Woodard, Ardis Josephine, Fr. Seymour, Conn. Balentine Hall
Wyman, Oscar Lewis, Ag. Greenville Balentine Hall

Whitcomb, Karl Beecher, Ce. A X A House

Zollo, Felice John, Bl. Revere, Mass. 90 Park Street

FRESHMEN

Abbott, Warren Salisbury, Ag. Rumford A X A House
Adams, Amy Belle, Arts Patten Balentine Hall
Ames, Isabel Zilpha, Arts Northport Mt. Vernon House
Anderson, Bryant William, Me. Pittsfield Φ Γ Δ House
Anderson, John Raymond, Fy. Bangor

Andrews, Francis James, Arts 122 Lincoln Street, Bangor
Armes, Fred Douglass, Me. Lubec 306 Oak Hall
Armstrong, Vose Lewis, Fy. Bath 104 H. H. Hall
Aronson, Alvar Emanuel, Me. Vanceboro 412 H. H. Hall
Atherton, Charles Russell, Ce. Brockton, Mass. College Road
Atkins, Sumner William, Ee. Sussex, N. B. Φ Γ Δ House
Atwood, Arthur Lane, Ce. Oxbow Φ H K House

Austin, Sewall Young, Ag. Bangor
Avery, Ralph Harriman, Arts 123 Lincoln Street, Bangor

Bailey, Morton Stevens, Arts Augusta Φ H K House
Baker, Edward Hosea, Arts Brewer Brewer
Barker, Harold Orin, Ag. Hillsboro, N. H. Φ Γ Δ House
Bayard, Edward Mayo, Arts Bangor 80 Wiley Street, Bangor
Beals, Stanley Bradford, Ce. Dover-Foxcroft Δ Τ Δ House
Beatty, Henry Russell, Me. Orono 76 Main Street
Beake, Anthony Arthur, Fy. Auburn 29 Bennoch Street
Belinian, Mary Cameron, Arts Boston, Mass. Σ Φ Σ House
Bell, Horace Edminster, Arts Rumford College Road

FRESHMEN
Benner, Helen Frances, Arts
Berg, Frederick Theodore, Ee.
Bernstein, Joseph Harry, Ee.
Berry, Raymond Pratt, Ch. Eng.
Bessey, Jane Hadley, He.
Best, Alton Louis, Fy.
Bishop, Neil Sinclair, Ag.
Bixby, Thomas Perry, Fy.

Blackwell, Everett Elmer, Ce.
Blanchard, Merideth Linn, He.
Blodgett, Earle Theodore, Ag.
Bockus, Clayton Turnbull, Ch. Eng.
Bouchard, Walter Thomas, Ce.
Bradstreet, James Henry, Ee.
Bradgon, Kingsbury Putnam, Fy.
Bridges, Grace, Arts
Bridges, James Madison, Ee.
Brofoco, Linwood Harold, Ch. Eng.
Brooks, Leon Prescott, Fy.
Brown, Clare Herbert, Ch. Eng.
Brown, Leroy Elmer, Ch.
Brownstone, David Isaac, Arts
Bunker, Carleton Herbert, Ce.
Burgess, Edwin Theodore, Ee.
Burnett, Francis Edwin, Ce.

Carpenter, Lewis Jacques, Ee.
Carson, Warren Paul, Ee.
Cary, George Arnold, Fy.
Cassidy, William Adrian, Arts
Cassista, Achilles Joseph, Me.
Chalmers, Pauline, Arts
Chandler, Sanford Ballard, Arts
Chapman, James Winslow, Ee.
Chapman, Stuart Hutchings, Me
Cilley, Orrin Batkin, Ee.
Clapp, Milton Herbert, Ee.

Clark, Anna Evelyn, Arts
Clark, Richard Gilman, Ee.
Clough, Harold Ford, Fy.
Cogswell, Cyril Gray, Arts

Bangor 57 Linden Street, Bangor
Portland 25 Grove Street
Portland 409 Oak Hall
Island Falls Θ X House
Deer Isle Balentine Annex
Allentown, Pa. 23 Pond Street
Richmond 409 H. H. Hall
Newburyport, Mass. A T Ω House

Madison 101 Oak Hall
Pittsfield Balentine Hall
Bowdoinham 307 Oak Hall
Stoneham, Mass. 23 Pond Street
Millinocket 8 Middle Street
Bridgewater 134 College Road
York Village 29 Bennoch Street
Orono 10 Beech Street
Orono 10 Beech Street
Madison 412 Oak Hall
Brownfield Β Ω II House
Staten Island, N. Y. Σ Λ Ε House
Pittsfield Φ Η K House
Portland 107 Oak Hall
Brewer Σ Φ Σ House
Cornish 404 Oak Hall
Old Orchard 3 Park Street

Patten 112 Oak Hall
Island Falls 8 Middle Street
Brockton, Mass. 303 H. H. Hall
Bangor 355 State Street, Bangor
Nashua, N. H. A T Ω House
Auburn Balentine Hall
Auburn Σ N House
Damariscotta 207 Oak Hall
Hartford, Conn. Φ K Σ House
Harmony 6 Myrtle Street
Bangor

95 Sanford Street, Bangor

Bangor 64 Jefferson Street, Bangor
Sanford A X A House
Alfred 202 Oak Hall
Old Town Old Town
Cogswell, Lawrence Perley, Arts
Collins, Elizabeth Matilda, Arts

Conary, Clifton Vordel, Ee.
Cook, Robert, Ce.
Cooper, Marion, Arts
Cooper, Norma Crystal, Arts
Copeland, Elliot William, Ce.
Couillard, Blandena Cole, Arts
Cowan, Mary Emily, Arts
Crimmin, Kennard Stetson, Ee.

Crockett, Rosalie Miller, He.
Crozier, Edgar Raymond, Me.
Culbertson, Harry Franklin, Me.
Cyr, Gerald Arthur, Arts

Davis, Royce Purinton, Arts
Day, Carroll Sturtevant, Ce.
DeCoster, Carroll Roswell, Ag.
Densmore, Charles Wesley, Arts
Dickson, Thomas Lyall, Ce.
Dinsmore, Dorothy, Arts
Dinsmore, Wallace Samuel, Ch. Eng.
Doloff, Richard Carlton, Ag.
Dooks, Earl Joseph, Arts
Douglas, Robert Livingston, Fy.
Dow, George Farrington, Ag.
Dow, Herman Edward, Ee.
Drysdale, James William, Fy.
Dyer, Odell Leonard, Me.
Dyer, Russell Hawes, Fy.

Dymond, Alfred Gray, Jr., Ce.

Old Town Bangor
Bangor
36 Webster Ave., North, Bangor
6 Myrtle Street

Sanford
Φ E II House

Berlin, N. H. Mt. Vernon House

Denton, Md.
32 College Road

Warren
10 Summer Street

Bangor 71 First Street, Bangor

Hampden
Balentine Hall

Bangor
57 Charles Street, Bangor
Balentine Hall

Brownville 100 No. Main Street

Kittery 10 Beech Street

Waterville 29 Bennoch Street

Lubec

Shirley
56 Park Street

Norway
Φ H K House

York Village
10 Beech Street

Mexico
Σ A E House

Machias
Β Ο П House

South Portland
Balentine Hall

Runford Center
Σ X House

Orono

Runford
Σ X House

Wayne

Mapleton
Gilbert Street

Westfield, Mass.
16 Pine Street

Stratton
14 Pond Street

Stillwater

Worchester, Mass.
208 Oak Hall

29 Bennoch Street

134 College Road

Fryeburg
Φ K Σ House

Runford
47 Mill Street

Millinocket
8 Middle Street

West Buxton
55 Park Street

Brewer
Balentine Annex

Ubly, Mich.
Φ K Σ House

Roxbury, Mass.
Old Town

Bangor 9 Pine Street, Bangor
Erlick, Gerald Jerome, Ch. Eng.
Ernest, Raymond William, Fy.
Ervin, Rupert Lafayette, Arts

Farley, Philip Edwin, Fy.
Farrington, Lucy, Arts
Farrington, Marion Adelaide, He.
Farris, Evelyn Ada, Arts
Field, Kenneth Sellers, Ee.
Fifield, Sumner Hammond, Ee.
Ford, Eleanor Frances, Arts
Foster, Edward George, Arts
Foster, Wilbur Keith, Ce.
French, Leita Esther, Arts
French, Lucian Taylor, Ee.
Friedman, Hilda Leah, Arts

Gallagher, James Francis, Arts
Gardner, William Henry, Ee.
Gay, Joseph Drummond, Arts
Gerber, Abraham, Arts
Gerry, Wyman Parker, Arts
Giroux, Guilford Valmore, Me.
Gleason, Richard Packard, Ee.
Goodman, Samuel Soloman, Arts

Grant, Clayton Francis, Ee.
Grant, Ernest Howard, Arts
Grindle, Robert J. Lowell, Arts
Guilbault, Beatrice Olivette, Arts
Gushee, Florence Sherman, Arts

Hackett, Carroll Edmund, Fy.
Haley, Arthur Chester, Ee.
Hammond, Gertrude Elizabeth, Arts
Hanscom, William Asa, Fy.
Hanson, James Bant, Arts
Harris, Charles Miller, Me.
Harris, Frederick Simpson, Fy.
Harris, Omah Simeon, Fy.
Harris, Wilder Braley, Me.
Hartley, Harry Albert, Ce.
Herrick, James Emerson, Ee.
Higgins, Alton Reginald, Arts
Higgins, Wallace Ingley, Ag.
Hight, Kenneth Vining, Arts
Hilton, Raymond Segon, Ee.
Hitchings, Ruth Clara, Arts
Hobson, Roy Clinton, Me.
Hodgins, Elwin Blanchard, Ch. Eng.
Holmes, Lillian Marie, Arts
Hooper, Melvin Franklin, Ch.
Howard, Henry George, Ce.
Hoxie, David Flanders, Arts
Hoyt, Edith Gertrude, Arts
Hoyt, Herschel Asbury, Ag.
Huddilston, Rachel, Arts
Hughes, Crystal Snowie, Arts
Humphrey, Hilton, Ce.
Hutchins, Robert Johnson, Eng.
Hutchinson, Calvin Morgan, Ce.
Ingalls, John Frederick, Fy.
Jenkins, Earl Cecil, Ee.
Johnson, Arthur Emanuel, Ec.
Johnson, Edward Douglass, Ag.
Johnson, Fred Alvin, Arts
Johnson, Marada Lucy, He.
Johnson, Margaret Elva, Arts
Johnson, Roland Chester, Ee.
Kamenkovitz, Archie Edward, Arts
Kane, Kenneth Eben, Arts
Keene, Gerald Merle, Ag.
Kehoe, George Frederick, Ch.
Kelly, Hilda Helen, Arts
Kelso, Elmer Garfield, Fy.
Keniston, Lucian William, Ag.
Knox, Alfred Eugene, Ee.
Kontio, Henry Alfred, Ee.
Kronholm, Edgar Warren, Ce.
Kurson, Sylvia Marian, Arts
Lamoreau, Paul Dombey, Ee.
Lane, Annette Elizabeth, Arts

Bangor: Main Street
Lewiston: 253 Ohio Street, Bangor
Mapleton: Stillwater
Phillips: A X A House
Bridgton: 29 Bennoch Street
Caribou: Balentine Hall
Portland: Φ H K House
Houlton: 109 H. H. Hall
East Machias: Balentine Hall
Gloucester, Mass.: A T Ω House
South Paris: 101 H. H. Hall
Auburn: 401 H. H. Hall
Danbury, Conn.: Balentine Hall
Rumford: 310 H. H. Hall
Oroko: 193 Main Street
Mapleton: Balentine Hall
Bangor: Φ H K House
Bangor: Σ N House
Hallowell: 74 North Main Street

Roadfield Center: Σ X House
Harmony: 6 Myrtle Street
Caribou: 54 Pine Street
Faneuil, Mass.: Β Θ Π House
Biddeford: Σ A E House
Putnam: Balentine Hall
Bangor: 131 Birch Street, Bangor
North Berwick: Β Θ Π House

Bangor: 176 Washington Street, Bangor
Brooklin: 64 Hill Street
Bridgton: 304 Oak Hall
Rutland, Mass.: 16 Pine Street
Oroko: 20 Mill Street
Bar Mills: 54 Pine Street
Industry: Main Street
Houlton: Φ K Σ House
Rockland: 411 Oak Hall
Monson: Park Street
Bar Harbor: Mt. Vernon House

Presque Isle: Φ H K House
Calais: Balentine Annex
Lanfest, Madeline Marie, He.
Lary, George Alfred, Fy.
Lavorgna, Michael Lawrence, Ee
LePage, Henry Adrian, Fy.
Lewis, Carl Herbert, Fy.
Lewis, George Boston, Ee.
Libby, George Thompson, Arts
Lobley, Joseph Harlen, Ee.
Lord, Harold Monroe, Ee.
Lord, Whitman Porter, Ee.

Lovely, Claude Gerald, Arts

McAlister, Eleanor Louise, He.
MacFadden, Vernon Paul, Fy.
McGary, Donald Frederick, Me.

McConigal, Leo Osborne, Me.
McKechnie, William Herbert, Ch. Eng.
MacLaren, Harold Leland, Me.
McNamara, Joseph Basil, Arts

Mack, Maurice Harold, Ch. Eng.
Mahoney, John Hagerthy, Arts
Mallett, Harold Bartlett, Ee.
Malloy, Edward Thomas, Fy.
Marsh, Marion Faye, Arts
Martin, George Nelson, Ee.
Mason, Myron Stuart, Cc.
Mason, Pauline, Arts

Matthews, Annette Susan, Arts

Megquier, Harold Arthur, Arts
Merchant, Edith Charlotte, Arts
Merrill, Kenneth Tetherly, Cc.
Meserve, Norman Albert, Fy.
Miles, Arthur Rowe, Ee.
Mitchell, Alfred Bradford, Ch. Eng.
Modes, Samuel, Ch. Eng.
Moon, Monroe Emery, Ee.
Moore, John Philip, Ee.
Morneault, Angeline Gertrude, Arts
Mulvaney, Margaret Constance, Arts

Old Town
Old Orchard
Rumford
Lewiston
Old Orchard
North Berwick
Augusta
Bangor
Skowhegan
Burlington

Old Town
Old Town
Old Town
Lubec
Bangor

275 Center Street, Bangor
Lubec
Old Town
Derby
Gardiner

Portland
Ellsworth
Fort Kent
Gorham, N. H.
Oroko
Boston, Mass.

32 Highland Lane, Bangor

Hampden Highlands

Millinocket
Walnut Hill
Augusta
Gorham, N. H.
Patten
Saco
Portland
Hancock
South Portland
Bangor
Bangor

Balentine Hall
Mt. Vernon House
Δ T Δ House
K Σ House
Φ Κ Σ House
Σ Α Ε House
134 College Road
10 Beech Street
Σ Φ Σ House
65 Curve Street, Bangor
199 Pine Street, Bangor
Murray, Elwood Clyde, Arts
Muzzey, Arnold Kingsley, Ch.
Muzzy, Bessie Agnes, He.
Myers, Beatrice Evelyn, Arts

Newcomb, Christine, Arts
Newcomb, Olevia Olive, Arts
Niles, Arthur Herbert, Ce.
Noddin, Harold Ellis, Me.

Norton, Howard Richard, Ce.
Nutting, Albert Deane, Fy.

O'Connell, Alice Katherine, Arts
O'Connor, Edith Harriet, He.
O'Connor, Watson Burdette, Jr., Ee.
O'Neil, John Daniel, Fy.
Orne, Lorinda Belle, Arts
Osborne, William Henry, Arts
Otis, Clarence Edward, Ce.

Page, Atwood Charles, Ag.
Palmer, Sara Alice, Arts
Parker, Charles Fulton, Jr., Ce.
Parker, Charles Leslie, Fy.
Parker, Lyndall Kilgore, Ce.
Parsons, James Dana, Ee.
Parsons, William, Fy.
Patch, John Edward, Arts
Peabody, Clara Webster, Arts
Peabody, Helen Adams, Arts
Pearce, Selden Jaquith, Ch. Eng.
Pendleton, Emily, Arts
Peters, Ada Viola, Arts

Plummer, Arnold Franklin, Ee.
Poole, Lyman Curtis, Ce.
Poor, Bernard Tyler, Ee.
Poor, Cuyler Stone, Ce.
Porter, Arnold Beardsley, Ce.
Porter, Ralph Wellington, Ee.
Pratt, Laura June, Arts
Preble, Margaret Mary, He.

Madison
South Berwick
Greenville
Orono

Presque Isle
Carmel
Rumford
Bangor

39 Cottage Street, Bangor
Waterville
Oxford

Bangor
193 West Broadway, Bangor
Veazie

Veazie

Lewiston
Thomaston
Milford
Oakland

Caribou
Orono
South Windham
Greenfield, Mass.
Auburn
North Gorham
South Berwick
York Village
Portland
Portland
Hallowell
Dark Harbor
Bangor

Harrington
Pemaquid
Sebago
Sebago
Houlton
Houlton
Macwahoc
Brewer

Σ N House
Stillwater
Balentine Hall
Spencer Street
Balentine Hall
Mt. Vernon House
206 Oak Hall
Bangor
304 H. H. Hall
111 H. H. Hall
47 Mill Street
5 Myrtle Street
5 Forest Avenue
103 H. H. Hall
Δ T Ω House
109 H. H. Hall
Δ T Δ House
29 Bennnoch Street
Mt. Vernon House
Mt. Vernon House
Balentine Hall
Balentine Hall
12 Carroll Street, Bangor

Φ Γ Δ House
112 Oak Hall
405 Oak Hall
405 Oak Hall
10 Mill Street
Σ X House
Balentine Hall
Balentine Hall
Price, Franklyn Thomas, Ee.
Proctor, Kenneth Lee, Ee.
Protopapas, Taxiarhichis Zissis
Purinton, William Andrew, Arts
Purrington, Harold Arthur, Fy.

Rand, Alden James, Ee.
Redlon, John Albert, Jr., Ce.
Richardson, Herbert Edwin, Arts
Rights, Albert Augustus, Arts
Riley, Harley Marston, Ch. Eng.
Ring, Hubert Edward, Ee.
Robinson, George Amos, Arts
Robinson, Jackson Albert, Arts
Robinson, Morris Reed, Arts

Robinson, Paul Stanwood, Ce.
Rollins, Carlton Edward, Ce.
Rosen, Daniel Albert, Ch.
Roundsville, Sherman Hall, Ee.
Rowe, Eugene Whitman, Ag.
Rowell, Pauline Frances, Arts
Rudman, Ruth Esther, Arts

Russell, Leonard Howland, Ce.
Russell, William Leighton, Ag.

Sanford, Arthur Redington, Fy.
Saunders, Henry Warren, Ee.
Sawyer, Elizabeth Louise, Arts
Sawyer, Frances Virginia, Arts
Schwartz, Carol, Arts
Scribner, Eugene Doughty, Me.
Scribner, Henry Allen, Ee.
Sedgley, Maurice Wirt, Ee.
Sennett, Harold Eugene, Ee.
Shaw, Richard, Ee.
Silverman, Samuel, Ch. Eng.
Skillings, Clarence Edmund, Arts
Small, Orlando Weeks, Ag.
Small, Robert Clement, Arts
Smargonsky, Rebecca, Arts

Bangor
157 Forest Avenue, Bangor
Presque Isle
Ph K House
Lowell, Mass.
205 Oak Hall
Bangor
12 Ohio Street, Bangor
Portland
6 Mill Street

Bangor
131 Fern Street, Bangor
Bath
Δ T Δ House
Kittery
Δ A E House
Pottstown, Pa.
16 Pine Street
Livermore Falls
Bangor
A T Ω House
Washington, D. C.
407 Oak Hall
Washington, D. C.
407 Oak Hall
Bangor
303 Hammond Street, Bangor
Auburn
29 Spencer Street
Waterboro
202 Oak Hall
Woodland
55 Park Street
Fairhaven, Mass.
109 H. H. Hall
Orono
Kell Street
Orono
87 North Main Street
Bangor
28 Prentiss Street, Bangor
Winthrop, Mass.
134 College Road
East Gray
Campus

Redding, Conn.
47 Myrtle Street
Westbrook
Balentine Hall
Bangor
Balentine Hall
Jonesport
Portland
205 Oak Hall
Oakland
104 H. H. Hall
Augusta
Σ A E House
Stratton
208 Oak Hall
Albion
4 Myrtle Street
Prospect Harbor
Σ Χ House
Portland
Φ Π House
Dover-Foxcroft
43 Mill Street
Farmington
67 Main Street
Auburn
Σ N House
Ashland
Balentine Annex
<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Address</th>
<th>House</th>
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</thead>
<tbody>
<tr>
<td>Smith, Donald Harry</td>
<td>Winterport</td>
<td>406 Oak Hall</td>
<td></td>
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<tr>
<td>Smith, Dorothy Myrtle</td>
<td>Waterboro</td>
<td>80 Forest Avenue</td>
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<tr>
<td>Smith, Florence Lydia</td>
<td>Grand Manan, N.</td>
<td>Balentine Annex</td>
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<tr>
<td>Smith, Louie Hillard</td>
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<td>Smith, Russell Edward</td>
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<td>Spear, Earle Maynard</td>
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<td>Spencer, Doris Corena</td>
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<td>Stanchfield, Donald</td>
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<td>Stanley, George Mason</td>
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<td>Staples, Eugene</td>
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<td>Stearns, Malcolm</td>
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<td>Stein, Maurice</td>
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<td>Stern, Harry</td>
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<td>Stevenson, James</td>
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<td>Stewart, John Emmons</td>
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<td>Stickney, Wilder</td>
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<td>Stinchfield, Anna</td>
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<td>Stitham, Lloyd</td>
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<td>Sullivan, Catherine</td>
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<td>Swift, Ralph Johnson</td>
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<td>Taylor, Forrest</td>
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<td>Templeton, Samuel</td>
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<td>Titcomb, Byron</td>
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<td>Titcomb, Gilbert</td>
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<td>Tobey, Raymond</td>
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<td>Torrens, Anna Lord</td>
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<td>Torrey, Daniel</td>
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<td>Towle, William</td>
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<td>Trask, Henry</td>
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<td>Trefrey, Merrideth</td>
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<td>Turner, George</td>
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<td>Ulmer, Dwinal</td>
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<td>Waldo, Henry</td>
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<td>Waldron, Alexander</td>
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<tr>
<td>Waldron, Alexander</td>
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<tr>
<td>Wallerstein, Harry</td>
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<tr>
<td>Waltz, Everett</td>
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</tr>
</tbody>
</table>
Washburn, Charles Marshall, Ag.
Wass, Lester Leighton, Arts
Watt, Mary Irene, He.
Waugh, Kenneth Adams, Ce.
Webber, Henry Norton, Arts
Webster, Daniel, Ce.
Webster, Earle Roberts, Ee.
Welch, Andrew Bartlett, Arts
Welch, Henry, Ee.
Welch, Hortense Agnes, He.
Wentworth, Paul Jagger, Ch. Eng.
Wentworth, Winston Pendleton, Ee.
Wessel, Philip Durgain, Me.
Wessell, Nicholai Frederick, Ee.
Weston, Lee Edwin, Eng.
Whalen, Donald Gregory, Arts
White, Margaret Julia, Arts
Whitehouse, Philip Alton, Me.
Willey, Richard Crosman, Arts
Wilson, Robert Eliot, Fy.
Winch, Eugene Christie, Fy.
Winter, George Henry, Ce.

Wiswell, Andrew Muller, Arts
Wood, Hazel Ota, Arts
Wood, Raymond Emery, Ee.
Wooster, Hollis Henry, Arts
Wray, Donald Eugene, Arts
Wuraftic, Joseph, Eng.

Young, Robert Bither, Ee.

Augusta 48 Mill Street
Southwest Harbor Σ N House
Fort Fairfield Balentine Annex
Winthrop 47 Mill Street
Millinocket 8 Middle Street
Bangor B Θ II House
Waterville Θ X House
Bradley
Portland 409 Oak Hall
Bradley
Sanford 104 H. H. Hall
Bucksport 103 H. H. Hall
Bangor 199 Cedar Street, Bangor
Stockholm 54 Pine Street
Belgrade College Road
Eastport 104 Oak Hall
Winterport Balentine Hall
Winter Harbor 111 H. H. Hall
Bar Harbor 38 Oak Street
Eliot 401 H. H. Hall
Bangor 98 Fern Street, Bangor
Bangor 149 Webster Avenue, Bangor
Machias Φ Γ Δ House
Bridgewater Balentine Annex
Sebago Lake 101 H. H. Hall
Rockport Σ X House
Brewer Brewer
Portland 403 Oak Hall

Houlton 10 Middle Street

UPPER CLASS STUDENTS CONDITIONED FOR ADMISSION

Class of

Abramson, James, Es. ('26) Berlin, N. H. Φ E Π House
Conti, Armando John, Jr., Ee. ('24) Eastport K Σ House
Crockett, Ruth Rena, Bl. ('25) Woodfords Balentine Hall
Curran, Rosemary, Eh. ('25) Rumford Old Town
Davis, Howard Forest, Es. ('26) Rumford 74 North Main Street
DeBeck, Sydney Sumner, Ce. ('26) Franklin Σ N House
Falt, Gordon Haliburton, Ee. ('26) Northeast Harbor Λ X A House
Gammell, Ernest Osmond, Ee. ('24) Attleboro, Mass. 307 H. H. Hall
Hackett, Carleton Henry, Es. ('26) South Brewer K Σ House
Hall, Nelson Blanchard, Bl. ('26)  
Kennebunk  
A T Ω House

Kenison, Lewis Everett, Me. ('26)  
Calais  
303 H. H. Hall

Lebet, Louis David, Ch. Eng. ('26)  
Bradford, Mass.  
Bennoch Street

Lewis, Floyd Knight, Es. ('26)  
North Berwick  
203 H. H. Hall

McKenney, Harold Elmer, Es. ('26)  
Milford  
Milford

Maher, Theodore James, Ee. ('25)  
Bangor  
59 Highland Avenue, Bangor

Malloy, Walter James, Es. ('25)  
Gorham, N. H.  
Θ X House

Marshall, John Taylor, Ch. Eng. ('26)  
Portland  
6 Mill Street

Mason, John Carlton, Ed. ('26)  
Island Falls  
Δ T Δ House

Mayhew, Frederick Towne, Me. ('26)  
Walpole, Mass.  
Φ H K House

Pierce, Israel Gardner, Es. ('26)  
Augusta  
Θ X House

Shaw, Francis Goodwin, Sp. ('26)  
Bangor  
16 Webster Avenue, Bangor

Shea, Leon Hammel, Me. ('25)  
Rumford  
Α X Α House

Small, Andrew Jordan, Es. ('26)  
South Portland  
Σ X House

Smith, Sidney Alfred, Ee. ('25)  
Portland  
203 H. H. Hall

Tarr, James Edward, Ee. ('26)  
Mapleton  
College Road

Walsh, Stewart Edward, Ch. Eng. ('26)  
Bangor  
31 Sidney Street, Bangor

Wilson, William Sumner, Ee. ('26)  
Bucksport  
309 H. H. Hall

Witham, George Lawrence, Ch. Eng. ('26)  
Howland  
29 Bennoch Street

Woodard, Clinton Albert, Ee. ('26)  
Bingham  
Φ K Σ House

SPECIAL STUDENTS

Arbo, Paul Payson, Ag.

Bancroft, Louise, Arts
Byther, Dorothy Iolo, Arts
Connor, Rachel, Eh.
Currier, Theodore Shirley, Hy.
Cutler, Fannie Rebecca, Fr.
Dressel, Donald Burton, Fy.
Evans, Charles George Henry, Arts
Felker, Everett Joshua, Arts
Johnson, Marjorie Edna, Eh.
Lincoln, Donald Curtis, Ch. Eng.
Maxwell, Sidney Armond, Arts
Morrill, Florence Julia, Arts
Morrison, Carl Francis, Arts

Brownville  
100 North Main Street

Orono  
Practice House

Stillwater  
Stillwater

Bangor  
60 Fern Street, Bangor

Amesbury, Mass.  
Α T Ω House

Old Town  
Old Town

Bangor  
Κ Σ House

Portland  
Σ Α E House

Orooner  
5 Forest Avenue

Balentine Hall

Russell  
204 Oak Hall

Wollaston, Mass.  
Α T Ω House

Orooner  
Practice House

Bangor  
36 Everett Street, Bangor
Muir, William Francis, Ee.  
Noyes, Gordon Max, Fy.  
Orcutt, Jefferson Hollis, Es.  
Shapleigh, David Miller, Ch. Eng.  
Stewart, Raymond Oliver, Ed.  
Switzer, Karl Frederick, Fy.  
Urban, Stanley Judson, Arts  
Vayo, Harold Edward, Fr.  
Wentworth, Lester Ricker, Ch. Eng.  

Virgie, James Alexander, Arts  
Whitcomb, Charles Floyd, Fr.  
Young, William Leroy, Ed.  

Woodfords  
Norway  
Limerick  
West Lebanon  
Farmington  
Machias  
South Orrington  
Brewer  
Calais  

Orono  

Winterport  

SCHOOL COURSE IN AGRICULTURE

SECOND YEAR

Ames, Ray Chester  
Curtis, Merton Shaw  
Garland, Mansell Rowe  
Hammond, Charles Henry  
Martin, Leo Forest  
Mayo, Harry Alden  
Spaulding, Melvin Arthur  

Abbot Village  
Paris  
Ellsworth  
South Paris  
Old Town  
Strong  

25 Grove Street  
25 Grove Street  
Campus  
Σ X House  
Old Town  
5 Forest Avenue  
411 H. H. Hall  

FIRST YEAR

Bliss, Addison Mountford  
Buck, Bertrand Charles  
Card, Clyde Seymour  
Davis, Ansel Merle  
Dubitzky, Jacob  
Nightingale, Harold Stone  
Ridley, Donald Harry  

Lewiston  
Buckfield  
South Paris  
Buckfield  
Bangor  
Fort Fairfield  
Sanford  

16 Pine Street  
311 H. H. Hall  
14 Pond Street  
310 H. H. Hall  
61 Pine Street, Bangor  
45 Mill Street  
64 Hill Street  

SUMMER TERM

Anderson, Carl Alfred, B.S.  
Maine, 1919  
Andrews, Lois May  
Arnold, Alice Elinor  
Austin, Frances Josephine  

East Bridgewater, Mass.  
Stillwater  
Portland  
Portland
Banks, Curtis Forbush  
Barbeau, Joseph Wilfred  
Barber, Arthur Leslie, B.A. Harvard, 1920  
Barton, Raymond L.  
Batchelder, Sydney Horan  
Beal, Raymond Coombs  
Beckett, Charles Louis  
Beers, Albert Maynard, Jr.  
Belinian, Mary Beatrice  
Bennett, Ralph Richard  
Berwick, Lucy Ellen  
Birmingham, Thomas Joseph  
Bonhard, Mabel Wood, B.A. Syracuse, 1892; M.A., 1895  
Bordwin, Lillian Elaine  
Bowie, Harold Everett  
Boynton, Henry Stanwood  
Bragg, Marion Katharyn, B.A. Maine, 1921  
Brecher, Edwin Robert, B.S. Texas A. & M.  
Brown, Pauline  
Brown, Stephen Walter  
Burrows, William Davis  
Bush, Lawrence George  
Byther, Dorothy Iolo  
Campbell, Morton Alfred, B.S. Boston University, 1900  
Carey, Francis Gerald  
Castonguay, Raoul Joseph  
Cereghino, Harold Louis  
Cloudman, Arthur Mosher  
Cloudman, Myra Frances  
Collings, Donald Windsor  
Conant, Edna  
Cooke, George Salem, B.A. Harvard, 1914; S.T.B., 1917; M.A., 1918  
Cooney, Harold James  
Coughlin, Madeline Elizabeth  
Culbert, Robert William  
Daggett, Hale Otis  
Danforth, Clarence Pierpoint  
Darnall, Amelia Beth, B.S. West Virginia Wesleyan, 1921  
Westboro, Mass.  
Anson  
Jamaica Plain, Mass.  
Groveton, N. H.  
Melrose, Mass.  
Lisbon Falls  
Calais  
Newton Highlands, Mass.  
Bangor  
Lancaster, N. H.  
Berlin, N. H.  
Hartford, Conn.  
Blairstown, N. J.  
Harmony  
Sullivan  
Bangor  
Niles, Michigan  
Toledo, Ohio  
Foxcroft  
Brooklyn, N. Y  
Oakland  
Stillwater  
LaGrange  
West Somerville, Mass.  
Orono  
Salem, N. Y.  
Saco  
Bangor  
Leeds  
Winterport  
Houlton  
Brownville Junction  
Brewer  
Waterbury, Conn.  
Princeton  
Castine  
Buckhannon, West Va.
Davis, Alfred Dudley, B.A.                           Rockland
  Maine, 1920
Dawson, Leroy Lendon                                  Vergennes, Vt.
Day, Marion                                             Bangor
DeBeck, Sydney Sumner                                   Franklin
Dennett, Winburn Albert, B.S.                          Hopedale, Mass.
  Maine, 1918
Derby, Helena Mason, B.A.                              Bangor
  Maine, 1922
Donovan, Irving Raymond, B.A.                          Bangor
  Maine, 1920
Drisko, Frank Eugene                                   Columbia Falls
Dunham, Earl Maynard                                    Dixfield
Dunham, Lloyd Thomas                                    Brooks
Eddy, Elmer Benjamin                                    Winter Harbor
Ellsworth, Robert Randolph                              Halifax, N. S.
Ellsworth, Vivian Margaret, B.A.                        Farmington
  Colby, 1915
Emerson, Doris                                          West Pomonal
Emery, Howard Rodney, B.A.                             West Paris
  Bowdoin, 1922
English, Benjamin Worth                                 New Haven, Conn.
Erskine, Paul Franklyn                                  Orono
Ervin, Rupert Lafayette                                 Houlton
Estes, Margaret J., B.A.                                Bangor
  College of St. Elizabeth, 1921
Evans, Esther Frances                                   Belfast
Fagan, Thomas Moulton                                   Portland
Fenlason, Philip Greydon                                 Milltown
Fenning, Katharine Hine                                  Washington, D. C.
Ferguson, William Stanley                               Wollaston, Mass.
Fernald, Abba Colburn                                   Winterport
Fernald, Cornelia Rankin                                Winterport
Fernald, Roy Lynde, B.A.                                Winterport
  Maine, 1923
Flewelling, Howard Lloyd, B.A.                          Needham, Mass.
  Dartmouth, 1921
Frazier, Harry John                                      Kennebunkport
French, Mildred Mary                                     Orono
Frost, Marion Holt                                       Bethel
Gallison, Kathleen Elizabeth                            Bangor
Garland, Cecil Gladstone                                Bangor
George, Albert Cedric                                    Fitchburg, Mass.
Glendon, Margaret Ellen
Gonyer, Doris Marie
Gonzales, Harold Francis
Gordon, Eugene Bradley, B.A.
    Bowdoin, 1914
Gorman, Helen Theresa
Gott, Albert Richard
Gould, Sherman Jewett, B.S.
    Bates, 1916
Gray, Orrelle Julia
Gray, Philip Lewis
Griffin, Edwin Hugh
Guerney, Thompson Lyford
Hagerthy, Lawrence Milton
Haley, Francis Nelson
Hamilton, Ruth Dresser
Hamlet, Robert Crosby
Hanscom, Perley Libby, B.S.
    Colby, 1920
Harding, Margaret Frances
Hardy, Oral Alton
Harmon, Josephine Frances
Harris, Elijah Edgar, B.D.
    Newton Theological Seminary, 1901
Hartshorn, Zenas Downes
Hathaway, Anne, B.L.I.
    Emerson College of Oratory
Hathaway, Ruth Florence
Hawes, Arthur LaFayette
Hawes, Frederick Albert
Hawley, James Benjamin, B.A.
    Dartmouth, 1914; A.M., 1916
Hedman, Esther Eugenia
Herchman, George Joseph
Hill, Alice Rider
Hoar, Marjorie Elsie
Hofsted, Eugene Albert, LL.B.
    Maine, 1911
Hoyt, Edith Gertrude
Hubbard, Florence Eddy, B.A.
    Barnard College, 1904
Hull, Esther
Humphrey, Orman Julian
Lynn, Mass.
Orono
Hall Quarry
Bar Harbor
Holyoke, Mass.
Orland
New Portland
Brewer
Harborside
Winthrop, Mass.
Dover-Foxcroft
Sedgwick
Lynn, Mass.
Prospect Harbor
Bowdoinham
Waterville
Brunswick
Stillwater
Lowell, Mass.
LaGrange
Belfast
Orono
Lowell, Mass.
Orono
So. Norwalk, Conn.
Jemtland
Hartford, Conn.
Orono
Orono
Rockville, Conn.
Danbury, Conn.
Brooklyn, N. Y.
Leominster, Mass.
Bangor
Hunnewell, Clayton Moore
Hutchins, Roland Lee
Hutchins, Paul Aiken
Hwang, Chen Liang
Jackson, Theresa Mary
Jeffery, David Mitchell
Jellison, Arthur Witham
Johnson, Beatrice Winnifred
Johnson, Doris Luanna
Johnson, Melville Hunnewell
Jones, Daisy Belle
Jones, Errald Gordon
Jordan, Ina, B.Ped.
Maine, 1921
Kallman, Beatrice
Keegan, Sister M. Eucharia, B.S.E.
St. Joseph's, 1919
Kelley, Charles Lintott
Kelley, Norman James
Kiernan, John Henry, B.A.
Maine, 1917
Kodzu, Hisatsugu
Larkin, Sister Mary Teresita, B.S.E.
St. Joseph's, 1919
Lawrie, Christabel Finley
Lee, Bernard James
Lewis, Donald Cowperthwaite
Linckin, Maynard George
Linke, Emil Gordon
Littlefield, Clifford Henry
Lomas, George Boyan
Look, Winona Retta
Macdonald, Jr., Harry Eugene
Mackenzie, Stuart Glover
MacKnight, Carolyn
Maddocks, Carl Wharton, B.Ped.
Maine, 1917
Mahaney, Edrie
Maling, Rachel Dorcas
March, Leland Samuel
Marquis, Solomon
Mason, John Carlton
Masters, Cecil Dana
McAvoy, Clifford Thomas

Caratunk
Orland
No. Stratford, N. H.
Fukien, China
Waterville
Dorchester, Mass.
Milo
Portland
Portland
South Portland
Newport
Brownville
Seal Harbor

New York City, N. Y.
Orono
Bangor
Orono
Wareham, Mass.
Osoka, Japan
Orono
Bloomfield, Conn.
Alton
Thomaston
Hartford, Conn.
Waterville
Pawtucket, R. I.
Jonesboro
Bangor
Adams, Mass.
Revere, Mass.
Deep River, Conn.

Bangor
Bangor
Old Town
Boston, Mass.
Island Falls
Orono
New York City, N. Y.
McCabe, Anna Elizabeth, B.A.  
Cornell, 1921
McCart, John Henderson
McCobb, John Lombard
McConville, Sister M. Callista, B.S.E.  
St. Joseph's, 1919
McGraw, Earl Cranston, B.A.  
Maine, 1922
McKechnie, Anna Francesca
McNamara, Raymond Leo
Meservie, Elva Clista
Milan, Eleanor Mary
Morris, Paul Austin, B.A.  
Maine, 1919
Morse, Frank Leander Staples, B.A.  
Maine, 1922
Morse, Ruth Esther
Mullen, Joseph James
Munsey, Virdell Everard
Murphy, Sister Mary Eulalia, B.S.E.  
St. Joseph's, 1919
Nash, Andrew Hall
Nason, Edwin Francis
Nevens, Joy Leavitt
Newhall, George Dewey
Nicholson, Murray Levi
Noah, George
Noddin, Effie, B.A.  
Me. Wesleyan Woman's College, 1909
Norell, Oscar
Norton, Marion Hayes
Oakes, Ralph Gilbraith, B.Ped.  
Maine, 1918
O'Brien, Catherine Beatrice
Orcutt, Carolyn Silsby
Osborne, William Henry
Packard, Oved
Parker, Joseph Rudolph
Parsons, Frederick Henry
Pendleton, Emily
Perkins, Arthur Chester
Perkins, Belford Ashton
Peterson, Bernese L., M.A.  
Kansas University, 1914
Haverstraw, N. Y.
Eastport
Orono
Orono
Bucksport
South Eliot
Orono
Morrill
Bangor
Bangor
Rockland
Orono
Hartford, Conn.
North Edgecomb
Bangor
Harrington
Hartford, Conn.
Woodfords
Cumberland Mills
East Millinocket
Melrose, Mass.
Bath
Caribou
Rockland
Readfield
Townsend, Mass.
Amherst
Milford
Dexter
Roxbury, Mass.
Franklin Park, Mass.
Dark Harbor
Monroe
Brooksville
Orono
Peterson, Herbert Minty
Peterson, Ida Miller, B.Ped.
Maine, 1922
Pettengill, Herbert Donham
Phillips, Bernard David
Pierce, Israel Gardner
Plummer, Lester Lacy
Poore, Mary Edith
Pratt, Lyndon Upson
Preble, Bina
Purinton, Bernice Irene
Ray, Carlon Weston
Richards, Irving Trefethen, B.A.
Bowdoin, 1920
Richardson, Harrison Lambert
Rigney, Helen Hope
Ring, Carl Edward
Ring, Chester Allen
Ringold, Helen
Roberts, Philip Carroll
Robinson, Verner Floyd
Ross, Irma Marian, B.A.
Colby, 1917
Russell, Cora Frances
Russell, Melvin Raymond
Saklani, Ramanand
Sargent, Harold Dean
Shattuck, Howard Will
Shorter, Fannie Belle
Simmons, Paulenah Mary, B.A.
Colby, 1904
Sims, James Henry
Small, Roger Elmer
Smart, Edgar Solomon
Smith, Beatrice Eleanor, B.A.
Mt. Holyoke, 1918
Smith, Bernice Izzie
Smith, Francis Brendan
Smith, Louise Augusta
Smith, Thelma Leighton
Spearing, Dorothy Esther
Springborn, Harold William
Stevens, Dearborn Bearce

Devon, Conn.
Columbia Falls

Island Falls
Brookline, Mass.
Augusta
Harrington
Robbinston
New Britain, Conn.
Bangor
Bangor
Dedham, Mass.
Orono

Orono
Waterville, Conn.
Bangor
Bangor
Springvale
Woodfords
Lubec
Corinna

Bangor
Orono
Tehri-Garhwal State, India
Patten
Lyndonville, Vt.
Darlington Heights, Va.
Ringham

Slatersville, R. I.
Brewer
Winterport
New Haven, Conn.

Pembroke
Waltham, Mass.
Pembroke
Bangor
Fort Fairfield
New York City, N. Y.
Ashland
SUMMER TERM

Strausbaugh, John Anthony, B.A.
  Dickinson College, 1919
Stuart, Ervin
Sturtevant, Arthur L., B.S.
  Maine, 1912
Sullivan, Daniel Lawrence
Taam, Wing Ip.
Taylor, Charles Grandison
Taylor, Dorothy Q.
Thayer, Elmer Sumner, B.S.
  Worcester Polytechnic Institute,
   1922
Thomas, Ruth Lewis
Trace, Adele M.
Trace, Charles T.
Violette, A. Genevieve, B.A.
  Maine, 1921
Wallace, Albion King
Ward, Helen Cecilia
Warren, Henry
Waterhouse, Mary
Waterhouse, Ruth Elva
Webb, Fred DeLancey
Weston, George Fred
Whitcomb, Morton Church
White, Blair Coburn
Whitmarsh, Edwin Wesley, B.S.
  University of Rochester, 1911
Whitney, Arthur Thomas, B.A.
  Bowdoin, 1922
Whitney, Elisabeth Waltman
Whitney, Sprague Rufus, B.C.S.
  Northeastern, 1921
Willis, Kleba Leslie
Wilson, Kenneth Cony
Wormlight, Verner John
Young, Herbert Leighton
Young, Muriel Kathleen
Young, William Leroy

Hanover, Pa.
Weeks Mills
Milo
Reading, Mass.
Hongkong, China
Foxboro, Mass.
Springvale
Brooklyn, N. Y.
Brooklyn, N. Y.
Milford
Milbridge
Salem, Mass.
Cumberland Mills
Biddeford
Old Town
Houlton
Springfield, Mass.
Ellsworth
Bangor
New Bedford, Mass.
Houlton
Bowdoinham
Framingham Center, Mass.
Harmony
Orono
Athens
Camden
Milbridge
Winterport
General Summary

FACULTY

President 1
Deans and Directors 7
Professors 29
Associate Professors 21
Assistant Professors 28
Instructors 40
Assistant 4
Agricultural Extension Service Staff 40
Agricultural Experiment Station Staff 18

Total 188

BY DIVISIONS

President 1
College of Agriculture 22
College of Arts and Sciences 55
College of Technology 34
Agricultural Extension Service Staff 40
Agricultural Experiment Station Staff 19
Officers common to all colleges 17

Total 188

STUDENTS

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Men</th>
<th>Women</th>
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<tbody>
<tr>
<td>Graduate Students</td>
<td>62</td>
<td>44</td>
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</tr>
<tr>
<td>Seniors</td>
<td>237</td>
<td>191</td>
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<tr>
<td>Juniors</td>
<td>253</td>
<td>185</td>
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<td>Sophomores</td>
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<td>Freshmen</td>
<td>360</td>
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<td>Upp. Class Students Cond. for Admission</td>
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<td>27</td>
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<td>Specials</td>
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<td>Two Year School Course in Agriculture</td>
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<td>Summer Term</td>
<td>255</td>
<td>162</td>
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<td>Total, omitting duplicates in Summer Term</td>
<td>1409</td>
<td>1083</td>
<td>326</td>
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### GENERAL SUMMARY

### CLASSIFICATION BY COLLEGES

<table>
<thead>
<tr>
<th>Classification</th>
<th>Graduate Students</th>
<th>College of Agriculture</th>
<th>College of Arts and Sciences</th>
<th>College of Technology</th>
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<td></td>
<td>62</td>
<td>260</td>
<td>629</td>
<td>458</td>
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<td>44</td>
<td>216</td>
<td>366</td>
<td>457</td>
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<td>18</td>
<td>44</td>
<td>263</td>
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<tr>
<td>Total</td>
<td>1409</td>
<td>1083</td>
<td>326</td>
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</tbody>
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### CANDIDATES FOR DEGREES

<table>
<thead>
<tr>
<th>Classification</th>
<th>Graduate Students</th>
<th>College of Agriculture</th>
<th>College of Arts and Sciences</th>
<th>College of Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>62</td>
<td>242</td>
<td>497</td>
<td>454</td>
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<tr>
<td>Total</td>
<td>1255</td>
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### CLASSIFICATION BY RESIDENCE

Maine, by counties:

<table>
<thead>
<tr>
<th>County</th>
<th>Students</th>
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<tbody>
<tr>
<td>Androscoggin</td>
<td>30</td>
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<tr>
<td>Aroostook</td>
<td>78</td>
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<tr>
<td>Cumberland</td>
<td>138</td>
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<tr>
<td>Franklin</td>
<td>19</td>
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<tr>
<td>Hancock</td>
<td>63</td>
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<tr>
<td>Kennebec</td>
<td>73</td>
</tr>
<tr>
<td>Knox</td>
<td>37</td>
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<tr>
<td>Lincoln</td>
<td>22</td>
</tr>
<tr>
<td>Oxford</td>
<td>57</td>
</tr>
<tr>
<td>Penobscot</td>
<td>354</td>
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<tr>
<td>Piscataquis</td>
<td>54</td>
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<tr>
<td>Sagadahoc</td>
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<tr>
<td>Somerset</td>
<td>38</td>
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<tr>
<td>Waldo</td>
<td>30</td>
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<tr>
<td>Washington</td>
<td>77</td>
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<tr>
<td>York</td>
<td>80</td>
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<tr>
<td>Total</td>
<td>1167</td>
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Other states:

<table>
<thead>
<tr>
<th>State</th>
<th>Students</th>
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<tbody>
<tr>
<td>Massachusetts</td>
<td>129</td>
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<tr>
<td>Connecticut</td>
<td>33</td>
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<tr>
<td>New Hampshire</td>
<td>21</td>
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<tr>
<td>New York</td>
<td>18</td>
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<tr>
<td>New Jersey</td>
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<td>Vermont</td>
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<tr>
<td>District of Columbia</td>
<td>4</td>
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<tr>
<td>Michigan</td>
<td>2</td>
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<tr>
<td>Pennsylvania</td>
<td>2</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>2</td>
</tr>
<tr>
<td>Location</td>
<td>Count</td>
</tr>
<tr>
<td>------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Georgia</td>
<td>1</td>
</tr>
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