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THE MAINE BULLETIN

Vol. XXXVIII APRIL, 1936 No. 9

University of Maine

Orono, Maine

Catalog Number with Records of the Sessions of 1935-1936

Announcements for the Sessions of 1936-1937

THE UNIVERSITY PRESS
ORONO, MAINE
1936

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1936

JANUARY

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JANUARY

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DECEMBER

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Calendar

1936

January 7, Tuesday, Christmas Recess ends, 8 A.M.
January 22, Wednesday, Final Examinations begin in Arts and Sciences and Education.
January 24, Friday, Final Examinations begin in Agriculture and Technology.
January 31, Friday, Final Examinations end. End of Fall Semester, 5:05 P.M.

SPRING SEMESTER

February 1, Saturday, Registration 8 A.M. to 12 M.
February 3, Monday, Spring semester begins 8 A.M.
February 22, Saturday, Washington's Birthday, a holiday.
March 20, Friday, Spring Recess begins at 11:30 A.M.
March 31, Tuesday, Spring Recess ends at 8 A.M.
May 18, Monday-May 20, Wednesday, Entrance Examinations.
May 25, Monday, Final Examinations begin in Arts and Sciences and Education.
May 26, Tuesday, Final Examinations begin in Agriculture and Technology.
May 30, Saturday, Memorial Day, a holiday.
June 3, Wednesday, Final Examinations end.
June 5, Friday, Class Day.
June 6, Saturday, Alumni Day.
June 7, Sunday, Baccalaureate address.
June 8, Monday, Commencement.

SUMMER SESSION

July 6, Monday, Registration 8 A.M. to 12 M. and 1:30 to 4:30 P.M.
July 7, Tuesday, Classes begin 7:45 A.M.
August 14, Friday, Summer Session ends, 12 M.

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FALL SEMESTER

September 14, Monday-September 15, Tuesday, Entrance Examinations.
September 16, Wednesday, University opens for freshmen.
September 21, Monday, Registration for transfer students 10 A.M.-12 M. and 2:00-3:00 P.M.

September 22, Tuesday, University opens for upperclassmen. Registration 8 A.M.-12 M. and 1:30-3 P.M.
November 26, Thursday, Thanksgiving Day, a holiday.
December 18, Friday, Christmas Recess begins, 11:30 A.M.

1937

January 5, Tuesday, Christmas Recess ends, 8 A.M.
January 27, Wednesday, Final Examinations begin in Arts and Sciences and Education.
January 29, Friday, Final Examinations begin in Agriculture and Technology.
February 5, Friday, Final Examinations end. End of Fall Semester, 5:05 P.M.

SPRING SEMESTER

February 6, Saturday, Registration 8 A.M. to 12 M.
February 8, Monday, Spring Semester begins 8 A.M.
February 22, Monday, Washington's Birthday, a holiday.
March 26, Friday, Spring Recess begins at 11:30 A.M.
April 6, Tuesday, Spring Recess ends at 8 A.M.
May 17, Monday-May 19, Wednesday, Entrance Examinations.
May 31, Monday, Memorial Day, a holiday.
June 1, Tuesday, Final Examinations begin in Arts and Sciences and Education.
June 2, Wednesday, Final Examinations begin in Agriculture and Technology.
June 9, Wednesday, Final Examinations end.
June 11, Friday, Class Day.
June 12, Saturday, Alumni Day.
June 13, Sunday, Baccalaureate address.
June 14, Monday, Commencement.

Board of Trustees

Hon. Harmon Gustavus Allen, President	Springvale
Term expires June 17, 1938	
Thomas Edward Houghton, Clerk	Fort Fairfield
Term expires May 6, 1941	
Bertram Everett Packard, B.A., LL.B., Ed.D., ex officio	Augusta
Hosea Ballou Buck, C.E.	Bangor
Term expires July 18, 1936	
Frank Porter Washburn	Augusta
Term expires January 25, 1939	
John Thomas Gyger, M.S.	Portland
Term expires November 20, 1940	
Eugene Boutelle Sanger, Ph.B., M.D., F.A.C.S.	Bangor
Term expires November 20, 1940	
Raymond Webber Davis, B.A.	Guilford
Term expires July 8, 1942	
Edward Everett Chase, B.A.	Portland
Term expires January 22, 1943	

Executive Committee, Buck, Chase, Packard

Officers of Administration

OF THE UNIVERSITY

Arthur Andrew Hauck, President. Alumni Hall; Campus†

James Norris Hart, Dean. Alumni Hall; 123 Main Street

George Davis Chase, Dean of Graduate Study. 140 Stevens Hall; 143 Main Street

Lamert Seymour Corbett, Dean of Men. 27 Rogers Hall; Campus

Edith Grace Wilson, Dean of Women. 16 Stevens, South; 6 North Main Street

Roy Merle Peterson, Director of the Summer Session and Editor of the University Catalog. 3 Stevens, North; 29 Bennoch Street

Walter Joseph Creamer, Director of Freshman Week. 28A Lord Hall; 331 Center Street, Bangor

Louis Tappe Ibbotson, Librarian. Library; University Place

Charles Edward Crossland, Alumni Secretary and Executive Secretary, Endowment and Donations. 11 Fernald Hall; 144 College Road

Philip Judd Brockway, Placement Director. 11 Fernald Hall; 13 Park Street

Charles John Dunn, Treasurer Emeritus. 114 Main Street

Frederick Shaw Youngs, Treasurer. Alumni Hall

James Adrian Gannett, Registrar. Alumni Hall; 166 Main Street

Edward Havener Kelley, Acting Purchasing Agent. Alumni Hall; 85 Main Street

Irving Pierce, Accountant. Alumni Hall; 34 Sixth Street, Old Town

Addie Matilda Weed, Recorder. Alumni Hall; Veazie

Evelyn Taylor, Assistant Registrar. Alumni Hall; 33 Bennoch Street

William Carl Wells, Steward. Alumni Hall; 2 Middle Street

Edward Tomlinson, M.D., Director, University Health Service, 20 Fernald Hall; 62 Main Street

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OF THE COLLEGES AND EXPERIMENT STATION

Paul Cloke, Dean of the College of Technology. 12 Wingate Hall; 49 Forest Avenue

---

†Offices and residences.

Olin Silas Lutes, Dean of the School of Education. 24 Stevens, South; College Road

Fred Griffee, Director of the Maine Agricultural Experiment Station. Holmes Hall; 75 Bennoch Street

James Muilenburg, Dean of the College of Arts and Sciences. 100 Stevens Hall; 104 Main Street

Arthur Lowell Deering, Dean of the College of Agriculture. 16 Winslow Hall; 160 College Road

OF THE DEPARTMENTS

Agricultural Economics and Farm Management. Professor Merchant, 36 Winslow Hall; 39 Mill Street

Agricultural Education. Professor Hill, 35 Winslow Hall, 162 College Road

Agronomy and Agricultural Engineering. Professor Chucka, 26 Winslow Hall; 48 High Street, Old Town

Animal Industry. Professor Corbett, 27 Rogers Hall, Campus

Bacteriology. Professor Hitchner, 13 Winslow Hall; 51 Bennoch Street

Biological and Agricultural Chemistry. Professor Smith, 15 Winslow Hall; 382 College Road

Biology (Agricultural Experiment Station). Professor Dove, Holmes Hall; 142 Park Street

Botany and Entomology. Professor Steinmetz, 24 Coburn Hall; 38 North Main Street

Chemistry and Chemical Engineering. Professor Jenness, 329 Aubert Hall; 80 Forest Avenue

Chemistry (Agricultural Experiment Station). Professor Tobey, Holmes Hall; 5 Pond Street

Civil Engineering. Professor Evans, 21 Wingate Hall; 8 Kell Street

Classics. Professor Chase, 140 Stevens Hall; 143 Main Street

Economics and Sociology. Professor Ashworth, 46 Stevens, South; 88 North Main Street

Education. Professor Lutes, 24 Stevens, South; College Road

Electrical Engineering. Professor Barrows, 2 Lord Hall; 40 Myrtle Street

Engineering Drafting. Professor Kent, 30 Wingate Hall; 16 Sixth Street, Bangor

English. Professor Ellis, 230 Stevens Hall; 29 Park Street

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

Forestry. Professor Demeritt, 24 Winslow Hall; 15 University Place.
German. Professor Drummond, 325 Stevens Hall; 61 Bennoch Street
History and Government. Professor Dow, 145 Stevens Hall; Bennoch Road
Home Economics. Professor Greene, 23 Merrill Hall; 6 University Place
Horticulture. Professor Waring, Horticulture Greenhouse; 378 College Road
Mathematics and Astronomy. Professor Willard, 130 Stevens Hall; 100 Bennoch Street
Mechanical Engineering. Professor Sweetser, 1 Lord Hall; 109 Main Street
Mechanics. Professor Weston, 1 Fernald Hall; College Road
Military Science and Tactics. Lieutenant Colonel Alcott, Armory; 6 North Main Street
Music. Professor Sprague, 15 Stevens, North; 217 Union Street, Bangor
Philosophy. Professor Levinson, 335 Stevens Hall; 78 North Main Street
Physical Education. Professor Wallace, Memorial Gymnasium; 45 Park Street
Physics. Professor Fitch, 200 Aubert Hall; 32 College Road
Plant Pathology (Agricultural Experiment Station). Professor Folsom, Holmes Hall; 63 Forest Avenue
Psychology. Professor Dickinson, 31 Stevens, North; Bennoch Street
Public Speaking. Professor Bailey, 240 Stevens Hall; University Place
Pulp and Paper Technology. Professor Bray, 135 Aubert Hall; 47 Forest Avenue
Romance Languages. Professor Peterson, 3 Stevens, North; 29 Bennoch Street
Short Courses. Director Loring, 11 Winslow Hall; 79 Bennoch Street
Zoology. Professor Murray, 16 Coburn Hall; 26 Myrtle Street

OF THE DORMITORIES

Ruth Esther Cope, Superintendent of Balentine Hall
Mary Margaret Heffernan, Superintendent of Colvin Hall
Gertrude Hayes, Superintendent of the Maples
Florence Jane Merrill, Superintendent of South Hall
Charlotte Osgood Fifield, Associate Superintendent of South Hall

MAJOR ADMINISTRATIVE ASSISTANTS

Florence Elizabeth Johnson, Secretary to the President. Alumni Hall

Blandena Couillard Garland, Secretary to the Dean of the University. Alumni Hall

Yvonne Morin, Secretary to the Dean of the College of Agriculture. 16 Winslow Hall

Kathleen Kelley, Secretary to the Dean of the College of Arts and Sciences. 100A Stevens Hall

Mildred French Creamer, Secretary to the Dean of the College of Technology. 12 Wingate Hall

Thelma Demont, Secretary to the Dean of the School of Education. 22 Stevens, South

Mary Norton Cameron, Secretary to the Director of the Experiment Station. Holmes Hall

Dorothea Lewis Miller, Secretary to the Treasurer. Alumni Hall

Geneva Morton, Secretary to the Dean of Men. 27 Rogers Hall

Faculty of Instruction*

Arthur Andrew Hauck, President.
A.B., Reed, 1915; Ph.D., Columbia, 1932

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

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

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

John Homer Huddilston, Professor of Ancient Civilization and Lecturer on Art History.
B.A., Baldwin-Wallace, 1890; M.A., 1892; A.B., Harvard, 1893; Ph.D., Munich, 1898

George Davis Chase, Dean of Graduate Study and Professor of Classics.
A.B., Harvard, 1889; A.M., 1895; Ph.D., 1897; LL.D., Maine, 1927

Caroline Colvin, Professor Emeritus of History and Government.
A.B., Indiana, 1893; Ph.D., University of Pennsylvania, 1901; LL.D., Maine, 1927

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

George Edward Simmons, Professor Emeritus of Agronomy.
B.S., Ohio Northern, 1902; M.S., 1905; B.Sc., Ohio State, 1909; D.Sc., Ohio Northern, 1922

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

Lamert Seymour Corbett, Dean of Men and Professor of Animal Industry.
B.S., Massachusetts State College, 1909; B.S.A., Boston University, 1909; M.S., Kentucky, 1913

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

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*Arranged in groups in order of seniority of appointment.

Roy Merle Peterson, Professor of Romance Languages and Director of the Summer Session.
A.B., Coe, 1906; A.M., Harvard, 1910; Ph.D., 1912; F.A.A.R.

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

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

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

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

Charles Andrew Brautlecht, Professor of Chemistry and Chemical Engineering.
Ph.B., Yale, 1906; Ph.D., 1912

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

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

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

Fred Mansfield Brice, Professor of Physical Education.

James Adrian Gannett, Registrar.
B.S., Maine, 1908; M.A., 1928

Charles Henry Merchant, Professor of Agricultural Economics and Farm Management.
B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928

Mark Bailey, Professor of Public Speaking.
A.B., Yale, 1915; A.M., University of Michigan, 1917

James Howard Waring, Professor of Horticulture.
B.S., Pennsylvania State, 1920; M.S., 1921; Ph.D., Michigan State College, 1930

Paul Cloke, Dean of the College of Technology and Director of the Technology Experiment Station.
E.E., Lehigh, 1905; M.S., 1913; Eng.D., Maine, 1934

Charles Alexius Dickinson, Professor of Psychology.
A.M., Clark, 1922; Ph.D., 1925

Olin Silas Lutes, Dean of the School of Education and Professor of Education.
A.B., Ohio University, 1915; M.A., State University of Iowa, 1923; Ph.D., 1926

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

ARTHUR ST. JOHN HILL, Professor of Electrical Engineering.
E.E., Polytechnic Institute of Brooklyn, 1911; M.S.E., University of Michigan, 1932

RONALD BARTLETT LEVINSON, Professor of Philosophy.
A.B., Harvard, 1920; Ph.D., Chicago, 1924

FERDINAND HENRY STEINMETZ, Professor of Botany and Entomology.
B.S., Illinois, 1915; M.S., Minnesota, 1921; Ph.D., 1926

LOUIS TAPPE IBBOTSON, Librarian.
A.B., Hamilton, 1922; B.L.S., University of the State of New York, 1925

BENJAMIN CALVIN KENT, Professor of Engineering Drafting.
B.S., Maine, 1912

CHESTER ALBERT JENKINS, Professor of Physical Education.
B.S., Dartmouth, 1911; M.S., Maine, 1931

MAURICE DANIEL JONES, Professor of Agricultural Economics and Farm Management.
B.S., Maine, 1912; M.S., 1927

ELMER REEVE HITCHNER, Professor of Bacteriology.
B.S., Pennsylvania State, 1915; M.S., 1916; Ph.D., Wisconsin, 1931

LLEWELLYN MORSE DORSEY, Professor of Dairy Husbandry.
B.S., Maine, 1916; M.S., 1923

STANLEY MOORE WALLACE, Professor of Physical Education.
Diploma, New Haven Normal School of Gymnastics, 1917

HARRY WOODBURY SMITH, Professor of Biological and Agricultural Chemistry.
B.S., Maine, 1909; M.S., 1922; Ph.D., Rutgers, 1934

MARION DEYOE SWEETMAN, Professor of Home Economics.
B.S., Iowa State College, 1921; M.S., 1922; Ph.D., Minnesota, 1927

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

THEODORE SMALL CURTIS, Faculty Manager of Athletics.
B.S., Maine, 1923

JAMES MUILENBURG, Dean of the College of Arts and Sciences.
A.B., Hope, 1920; A.M., Nebraska, 1922; Ph.D., Yale, 1926

ARTHUR LOWELL DEERING, Dean of the College of Agriculture.
B.S., Maine, 1912; Sc.D., 1934

DWIGHT BURGESS DEMERITT, Professor of Forestry.
B.S., Maine, 1922; M.F., Yale, 1923

Joseph Anthony Chucka, Professor of Agronomy and Agricultural Engineering.
B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930

Paul DeCosta Bray, Professor of Pulp and Paper Technology.
B.S., Maine, 1914; Ch.E., 1918

Weston Sumner Evans, Professor of Civil Engineering.
B.S., Maine, 1918; M.S., 1923

Joseph Magee Murray, Professor of Zoology.
B.A., Maine, 1925; M.A., University of Michigan, 1927; Ph.D., 1929

Archie Ellsworth Phinney, Professor of Military Science and Tactics.
Major, Infantry (D.O.L.), U. S. Army

Robert Kerr Alcott, Professor of Military Science and Tactics.
Lieutenant Colonel, Infantry (D.O.L.), U. S. Army.
LL.B., Minnesota, 1904

Victor Geoffrey Huskea, Professor of Military Science and Tactics.
Major, Infantry (D.O.L.), U. S. Army

*Alonzo Patrick Fox, Professor of Military Science and Tactics.
B.S., St. Louis University, 1917.
Major, Infantry (D.O.L.), U. S. Army

†George Joseph Loupret, Professor of Military Science and Tactics.
Captain, Coast Artillery Corps (D.O.L.), U. S. Army

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

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

Ava Harriet Chadbourne, Associate Professor of Education.
B.A., Maine, 1915; M.A., 1918; A.M., Columbia, 1919; Ph.D., 1928

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

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

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

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*From September 1, 1935 to February 1, 1936.
†Beginning December 28, 1935.

ALBERT MORTON TURNER, Associate Professor of English and Comparative Literature.
A.B., Harvard, 1912; A.M., 1914; Ph.D., 1920

WALTER JOSEPH CREAMER, Associate Professor of Electrical Communication and Director of Freshman Week.
B.S., Maine, 1918; E.E., 1921; B.A., 1923

MAYNARD FRED JORDAN, Associate Professor of Mathematics and Astronomy.
B.A., Maine, 1916; M.A., 1921

CHARLES BURTON CROFUTT, Associate Professor of Physics.
B.A., Cornell College, 1919; M.S., State University of Iowa, 1920; Ph.D., 1923

JOHN ROBERT SMYTH, Associate Professor of Poultry Husbandry.
B.S., Purdue, 1920; M.S., Kentucky, 1928

GEORGE WILLIAM SMALL, Associate Professor of English.
B.A., Tennessee, 1915; M.A., Johns Hopkins, 1921; Ph.D., 1922; B.Litt., Oxford, 1927

EDWARD FRENCH DOW, Associate Professor of History and Government and Head of the Department.
B.S., Bowdoin, 1925; A.M., Harvard, 1926; Ph.D., 1932

HARRY DEXTER WATSON, Associate Professor of Mechanical Engineering.
B.S., Maine, 1920; M.S., 1929

STANLEY ROYAL ASHBY, Associate Professor of English.
B.A., Texas, 1904; B.A., Oxford, 1907; M.A., 1923; A.M., Harvard, 1925; Ph.D., 1927

ERNEST JACKMAN, Associate Professor of Education and Director of Teacher Training.
A.B., Colby, 1912; A.M., Columbia, 1924

WALTER WHITMORE CHADBOURNE, Associate Professor of Economics and Sociology.
B.A., Maine, 1920; M.B.A., Harvard, 1922

EDWARD NEWCOMB BRUSH, Associate Professor of Psychology.
A.B., Vermont, 1925; A.M., Harvard, 1926; Ph.D., 1932

GEORGE BAER FUNDENBURG, Associate Professor of Romance Languages.
A.B., Princeton, 1916; A.M., 1917; Ph.D., Columbia, 1919

ALLEN WRIGHT GOODSPEED, Associate Professor of Forestry.
B.S., Maine, 1928; M.F., Yale, 1929

LYLE CLAYTON JENNESS, Associate Professor of Chemistry and Acting Head, Department of Chemistry and Chemical Engineering.
B.S., New Hampshire, 1922; M.S., Maine, 1925

GEORGE FARRINGTON DOW, Associate Professor of Agricultural Economics and Farm Management.
B.S., Maine, 1927; M.S., 1929

Helen Anna Lengyel, Associate Professor of Physical Education for Women.
Diploma, Sargent School for Physical Education, 1915; B.A., Maine, 1927

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*Chauncey Wallace Lord Chapman, Assistant Professor of Forestry.
B.S., Maine, 1914; M.S., 1921

Leigh Philbrook Gardner, Assistant Professor of Poultry Husbandry.
B.S., Maine, 1920; M.S., 1923

Warren Stanhope Lucas, Assistant Professor of Mathematics.
B.A., Maine, 1914; M.A., 1922

Carl Everett Otto, Assistant Professor of Chemistry.
B.A., Cincinnati, 1916; M.A., 1920; Ph.D., 1922

Frances Elizabeth Arnold, Assistant Professor of Romance Languages.
B.A., Maine, 1910; M.A., 1923

Marion Stephanie Buzzell, Assistant Professor of Romance Languages.
B.A., Maine, 1914; M.A., 1915

Harold Clayton Swift, Assistant Professor of Agronomy.
B.S., Maine, 1918; M.S., 1923

Everett Louis Roberts, Assistant Professor of Electrical Engineering.
B.S., Maine, 1920

Charles Orville Dirks, Assistant Professor of Entomology.
B.S., Kansas State College, 1924; M.S., Iowa State College, 1925; Ph.D., Cornell University, 1935

Irving Henry Prageman, Assistant Professor of Mechanical Engineering.
Ph.B., Yale, 1918; M.E., 1923

William Francis Scamman, Assistant Professor of English.
B.A., Maine, 1908; M.A., 1930

George Peter Steinbauer, Assistant Professor of Botany.
B.S., Minnesota, 1925; M.S., 1927; Ph.D., 1929

Marguerite Ruth Musgrave, Assistant Professor of Home Economics.
B.S., Columbia, 1925; A.M., 1926

Himy Benjamin Kirshen, Assistant Professor of Economics and Sociology.
B.S., Whitman, 1926; A.M., Columbia, 1929

Ruth Crosby, Assistant Professor of English.
A.B., Mount Holyoke, 1919; A.M., Radcliffe, 1920; Ph.D., 1929

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*On leave of absence, 1935-36.

JOHN RAYMOND CRAWFORD, Assistant Professor of Education and Director of Bureau of Educational Research and Service.
B.A., Culver-Stockton, 1924; M.A., State University of Iowa, 1929; Ph.D., 1931

MONROE EDWARD FREEMAN, Assistant Professor of Biological and Agricultural Chemistry.
B.A., Minnesota, 1928; M.S., 1929; Ph.D., 1931

ROBERT IRVING ASHMAN, Assistant Professor of Forestry.
A.B., Cornell University, 1913; M.F., Yale, 1929

HOWE WIGGIN HALL, Assistant Professor of Animal Husbandry.
B.S., Maine, 1914; M.S., 1925

EARL MAYNARD DUNHAM, Assistant Professor of Engineering Drafting.
B.A., Maine, 1924; M.A., 1928

FAY HYLAND, Assistant Professor of Botany.
B.S., Michigan State College, 1925; M.S., Maine, 1929

WILLIAM LESTER GILLILAND, Assistant Professor of Chemistry.
B.S., University of Washington, 1920; M.S., 1921; Ph.D., Massachusetts Institute of Technology, 1925

ALFRED CARLETON ANDREWS, Assistant Professor of Classics.
A.B., Bowdoin, 1926; A.M., University of Pennsylvania, 1930; Ph.D., 1931

JOHN FRANKLIN WITTER, Assistant Professor of Animal Pathology.
B.S., Maryland, 1928; D.V.M., Michigan State College, 1932

HOWARD LLOYD FLEWELLING, Assistant Professor of English.
A.B., Dartmouth, 1921; M.A., Maine, 1925; Ph.D., University of Michigan, 1931

EVELYN FAYE WILSON, Assistant Professor of History and Government.
A.B., Beloit, 1921; M.A., University of Washington, 1924; Ph.D., California, 1930

EDITH ELIZABETH MORTENSEN, Assistant Professor of Zoology.
B.A., Carleton, 1925; M.A., Minnesota, 1927

JOHN FREDERICK KLEIN, Assistant Professor of German.
A.B., Cornell University, 1912; A.M., 1913; Ph.D., 1920

CHARLES EARL PACKARD, Assistant Professor of Zoology.
A.B., Bates, 1919; S.M., Yale, 1924

CLARENCE EDWIN BENNETT, Assistant Professor of Physics.
Ph.B., Brown, 1923; Sc.M., 1924; Ph.D., 1930

STEPHEN MARTIN RALEIGH, Assistant Professor of Agronomy.
B.S., Kansas State College, 1927; Ph.D., Minnesota, 1934

*ROGER CLAPP, Assistant Professor of Horticulture.
B.S., Cornell University, 1928; M.S., Maine, 1932

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*On leave of absence, 1935-36.

Richard McVay Riley, Assistant Professor of Horticulture.
B.S., Ohio University, 1926; M.S., Cornell University, 1929
Donald McLean Purdy, Assistant Professor of Psychology.
A.B., Cornell University, 1921; A.M., Harvard, 1926; Ph.D., 1930
Frederick Eugene Melder, Assistant Professor of Economics and Sociology.
B.B.A., University of Washington, 1926; M.A., 1931
John George Leslie Caulfield, Assistant Professor of Pulp and Paper Technology.
B.S., Maine, 1924; M.S., 1926
Herschel Leonard Bricker, Assistant Professor of Public Speaking.
A.B., Coe, 1928
Hugh Donald Chase, Assistant Professor of Civil Engineering.
S.B., Massachusetts Institute of Technology, 1931; S.M., 1932
Arthur Eugene Jensen, Assistant Professor of English.
Ph.B., Brown, 1926; A.M., 1928; Ph.D., Edinburgh, 1933
Rising Lake Morrow, Assistant Professor of History and Government.
A.B., Wesleyan, 1923; A.M., Harvard, 1925; Ph.D., 1932
Winthrop Charles Libby, Assistant Professor of Agronomy.
B.S., Maine, 1932; M.S., 1933
Eleanor Haile, Assistant Professor of Home Economics.
B.S., Tennessee, 1929; M.S., Iowa State, 1935.
Herbert Day Lamson, Assistant Professor of Economics and Sociology.
Ph.B., Brown, 1924; M.A., 1925; M.A., Harvard, 1934; Ph.D., 1935
Evlon Joy Niederfrank, Assistant Professor of Agricultural Economics and Farm Management.
B.S., Oregon State College, 1932; M.S., 1935

Everett Willard Davee, Instructor in Mechanical Engineering.
Everett Joshua Felker, Instructor in Civil Engineering.
B.S. in Ed., Maine, 1931
Harry Roy Perkins, Instructor in Mechanical Engineering.
Herman Samuel Silverman, Instructor in Mathematics.
B.A., Maine, 1925; M.A., 1927
Kenneth Gerard Crabtree, Instructor in Electrical Engineering.
S.B., Massachusetts Institute of Technology, 1922
William Curtis Kenyon, Instructor in Physical Education.
Beulah Osgood Wells, Instructor in Home Economics.
B.S., Maine, 1926; A.M., Columbia, 1931

THERON ALONZO SPARROW, Instructor in Mechanical Engineering.
B.S., Maine, 1924

MARION ELIZABETH ROGERS, Instructor in Physical Education for Women.
Diploma, Sargent School for Physical Education, 1927; B.A., Maine, 1930

GLADYS MARIE GOULD, Part-Time Instructor in Home Economics in Charge of Student Teaching.
B.S., Maine, 1922

*LAWRENCE LEWIS OSBORN, Instructor in Chemistry.
A.B., Indiana, 1924; A.M., 1927

JOHN EMMONS STEWART, Instructor in Mathematics.
B.A., Maine, 1927; M.A., 1928

EDGAR JUNIOR BOGAN, Instructor in Chemistry.
A.B., Miami, 1926; A.M., Princeton, 1929

RALPH ALBERT SAWYER, Instructor in Engineering Drafting.
B.S., Norwich, 1925

LEONIDAS DACOSTA STEPHENSON, JR., Instructor in Civil Engineering.
B.S., North Carolina State College, 1927

FRED LINCOLN LAMOREAU, Instructor in Mathematics and Astronomy.
B.A., Maine, 1930; M.A., 1934

JAMES MORELAND, Instructor in English, in charge of University Publicity.
B.A., Georgetown College, 1924; M.A., Maine, 1934

*DELYTE WESLEY MORRIS, Instructor in Public Speaking.
A.B., Park, 1928; M.A., Maine, 1934

WILBUR EVERETT TOMLIN, Instructor in Chemistry.
A.B., Kentucky Wesleyan, 1926; A.M., Columbia, 1931

WARREN HERBERT BLISS, Instructor in Electrical Engineering.
B.S., Michigan State College, 1928; M.S., 1931

MABEL LANCASTER STEWART, Instructor in Home Economics.
B.S., Maine, 1931

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

CARL MUNRO FLYNN, Instructor in Zoology.
B.A., Maine, 1930; M.A., Wesleyan, 1932

RICHARD WILDER MERRILL, Instructor in German.
B.S., Bowdoin, 1928; M.A., Maine, 1933

EDWIN KENNETH MILES, Instructor in German.
B.A., Lawrence, 1929; M.A., Northwestern, 1930; Ph.D., University of Pennsylvania, 1933

ELVEN CLIFFORD NELSON, Instructor in Zoology.
B.A., University of Colorado, 1929; M.A., 1930; Sc.D., Johns Hopkins, 1933

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*On leave of absence, 1935-36.

Edith Grace Wilson, Dean of Women and Instructor in Education.
B.A., Southern California, 1923; M.A., 1928
Karl Davis Larsen, Instructor in Physics.
B.A., Maine, 1929; M.A., 1930; Ph.D., Pennsylvania State, 1934
Gaylord Clarke LeRoy, Instructor in English.
A.B., Oberlin, 1930; A.M., Harvard, 1931
Fred Perley Loring, Director of Short Courses in the College of Agriculture.
B.S., Maine, 1916
Frederic Thurman Martin, Instructor in Chemistry.
Ch.E., Lehigh, 1925; Ph.D., Johns Hopkins, 1929
Cecil Clough Tyrrell, Instructor in Mechanical Engineering.
B.S., Purdue, 1931; M.S., 1932
Gregory Baker, Instructor in Forestry.
B.S., Maine, 1924.
Claude Louis Bourcier, Instructor in Romance Languages.
L. ès L., University of Paris, 1933; Agrégé de Lettres, 1935
Spencer Franklin Brown, Instructor in Public Speaking.
A.B., Shurtleff College, 1933; M.A., Iowa State University, 1935
Matthew Edward Highlands, Instructor in Bacteriology.
B.A., Maine, 1928; S.M., Massachusetts Institute of Technology, 1934
Wesley Parkhurst Judkins, Instructor in Horticulture.
B.S., Maine, 1934
Frank Joseph Lewand, Instructor in Economics and Sociology.
B.S., University of Pennsylvania, 1928; M.A., 1933
George Edgar McReynolds, Instructor in History and Government.
A.B., Indiana, 1931; A.M., 1932
Cecil John Reynolds, Instructor in English.
B.Sc., Mount Allison, 1926; B.A., 1927; B.A., Oxford, 1929, B.Litt., 1930; A.M., Harvard, 1932
Joseph James Rinkaus, Instructor in Military Science and Tactics.
Sergeant (D.E.M.L.), U. S. Army
Walter Reginald Whitney, Instructor in English.
B.S., Bowdoin, 1923; A.M., Harvard, 1935
Frances Reynolds, Part-Time Instructor in Physical Education for Women.
Diploma, Dana Sieveling School of the Dance, Boston

Percie Hopkins Turner, Lecturer in English.
A.B., Smith, 1917; A.M., 1920; A.M., Radcliffe, 1923; Ph.D., 1924
Gertrude Elvira Ebbeson, Special Lecturer in Engineering Drafting.
B.Arch., Massachusetts Institute of Technology, 1933

Lillian Hatfield Brush, Lecturer in Psychology.
B.A., Lake Forest, 1923; M.A., Illinois, 1924; Ph.D., Cornell University, 1928

Charles Lester Smith, Instructor and Critic Teacher, School of Education.
A.B., Harvard, 1907

Veysey Hiram Robinson, Instructor and Critic Teacher, School of Education.
B.Ped., Maine, 1917

Alice Lowe Brown, Critic Teacher, School of Education.
A.B., Colby, 1899

Grace Stetson Grant, Critic Teacher, School of Education.
A.B., Colby, 1907

Helen Louise Hathorne, Critic Teacher, School of Education.
B.A., Maine, 1922

Horace Alcander Croxford, Critic Teacher, School of Education.
B.A., Maine, 1930

Caroline Ella Lowell, Critic Teacher, School of Education.
B.A., Maine, 1929

Howard Lewis Mendall, Assistant in Zoology.
B.A., Maine, 1931; M.A., 1934

Garnet Edward Davis, Graduate Fellow in Dairy Husbandry.
B.S., Maryland, 1934.

Arnold Evans Hook, Graduate Fellow in Bacteriology.
B.S., Wisconsin, 1934

Clifford Egerton Lloyd, Graduate Fellow in Botany and Entomology.
B.S., Cornell University, 1932

Alden Parker Cleaves, Assistant in Physics.
A.B., Boston University, 1931; A.M., 1932

Ernest Mayland Cram, Graduate Assistant, Department of Chemistry and Chemical Engineering.
B.S., Maine, 1935

Rose Snider, Graduate Assistant, Department of English.
B.A., Maine, 1933

Oscar Thomas Thompson, Graduate Assistant, Department of Chemistry and Chemical Engineering.
B.S., Maine, 1932; M.S., 1934

Stanley Paul Young, Graduate Assistant, College of Technology.
B.S., Maine, 1934

Herbert Burr Abbott, Mechanician in Mechanical Engineering.
Ralph Freeman Bowden, Electrician in Electrical Engineering.
Clayton Leonard Sawyer, Highway Laboratory Assistant.
Horace Asa Pratt, Assistant Engineer, Technology Experiment Station.
B.S., Maine, 1930
Girdler Jackson Swett, Highway Laboratory Assistant.
B.S., Maine, 1933
Anne Morrison Tropp, Resident Health Nurse.
R.N., Eastern Maine General Hospital, Bangor, 1928
Helen Louise O'Leary, Resident Health Nurse.
R.N., Eastern Maine General Hospital, Bangor, 1933
Dorothy Smith, Reference Librarian.
B.S., Simmons School of Library Science, 1921
Mary Florence Reed, Cataloger.
B.A., Maine, 1929; B.S., Simmons School of Library Science, 1930
*Dorothy Mayo Morris, Circulation Assistant in the Library.
B.A., Maine, 1930
Louise Grindle Gray, Clerk in the Library.
Lucy Nichols, General Assistant in the Library.
A.B., Mount Holyoke, 1934; B.S., Simmons School of Library Science, 1935
Sally Palmer, Circulation Assistant in the Library.
B.A., Maine, 1927

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*On leave of absence, 1935-36.

Faculty of Investigation

(THE MAINE AGRICULTURAL EXPERIMENT STATION)

FRED GRIFFEE, Director.
B.S., Kansas State College, 1919; M.S., Minnesota, 1920; Ph.D., 1924

EDITH MARION PATCH, Entomologist.
B.S., Minnesota, 1901; M.S., Maine, 1910; Ph.D., Cornell University, 1911

DONALD FOLSOM, Plant Pathologist.
A.B., Nebraska, 1912; M.A., Minnesota, 1914; Ph.D., 1917

ELMER ROBERT TOBEY, Chemist.
B.S., Maine, 1911; M.S., 1917; Ch.E., 1920

CHARLES HENRY MERCHANT, Agricultural Economist.
B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928

PEARL STUART GREENE, Home Economist.
B.A., Northwestern, 1909; B S., Lewis Institute, 1914; A.M., Columbia, 1923

WILLIAM FRANKLIN DOVE, Biologist, Animal Breeding and Nutrition.
B.S., Iowa State College, 1922; M.S., Wisconsin, 1923; Ph.D., 1927

FRANK HEIDTMAN LATHROP, Entomologist.
B.S., Clemson, 1913; M.S., Ohio State, 1915; Ph.D., 1923

MARY MORRIS CLAYTON, Nutritionist.
B.S., Columbia, 1918; M.S., Rochester, 1926; Ph.D., 1929

CHARLES HARRY WHITE, Associate Chemist and Photographer.
Ph.C., Maine, 1899

REINER BONDE, Associate Plant Pathologist.
B.S., Minnesota, 1922; M.S., Maine, 1926

GEORGE FARRINGTON DOW, Associate Agricultural Economist.
B.S., Maine, 1927; M.S., 1929

MARION DEYOE SWEETMAN, Collaborating Home Economist.
B.S., Iowa State College, 1921; M.S., 1922; Ph.D., Minnesota, 1927

JOSEPH ANTHONY CHUCKA, Associate Biologist, Plant Breeding and Nutrition.
B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930

RUSSELL MANLEY BAILEY, Associate Biologist, Plant Breeding and Nutrition.
B.S., Maine, 1928

BERNIE ELLIOTT PLUMMER, JR., Assistant Chemist.
B.S., Maine, 1924; M.S., 1925

JOHN HENRY HAWKINS, Assistant Entomologist.
B.S., Illinois, 1926; M.S., Maine, 1927; Ph.D., Cornell University, 1935.

Florence Lydia Markin, Assistant Plant Pathologist.
B.S., Montana State College, 1924; M.S., Wisconsin, 1926

William Ernest Schrumpf, Assistant Agricultural Economist.
B.S., Maine, 1928; M.S., 1930

Frederick Barker Chandler, Assistant Biologist in Charge of Blueberry Investigations.
B.S., Maine, 1928

Geddes Wilson Simpson, Assistant Entomologist.
A.B., Bucknell, 1929; A.M., Cornell University, 1931; Ph.D., 1935

Delmar Simon Fink, Assistant Biologist, Plant Breeding and Nutrition.
B.S., Wisconsin, 1930; M.S., 1931; Ph.D., 1934

Glenn Harold Perkins, Assistant Chemist.
B.S., Maine, 1930

Millard George Moore, Assistant Chemist.
B.S., Maine, 1919; M.S., 1930

Charles Clyde Inman, Administrative Assistant.

George Peter Steinbauer, Seed Analyst, Department of Inspections.
B.S., Minnesota, 1925; M.S., 1927; Ph.D., 1929

Mildred Rebecca Covell, Assistant in Biology.

Iva Merchant Burgess, Assistant in Biology.
B.S., Maine, 1923; M.S., 1925

Elizabeth Florence Murphy, Assistant in Animal Breeding and Nutrition.
B.A., Maine, 1930; M.A., 1934

Merna Myrtha Monroe, Assistant in Home Economics Research.
B.S., Iowa State College, 1929; M.S., Kansas State College, 1932

Merle Tyson Hilborn, Assistant in Plant Biology.
B.S., Maine, 1932; M.S., 1934

Elaine Mary Pooler, Chief Assistant in Agricultural Economics.

Magretta Blackmore, Assistant in Agricultural Economics.

Iris MacIntosh Williams, Assistant in Agricultural Economics.

Alice Woods Averill, Laboratory Assistant in Entomology.

Emmeline Wilson Kenney, Laboratory Assistant in Biology.

Gladys Elizabeth Babbin, Seed Analyst and Laboratory Assistant in Plant Pathology.

Delmar Boynton Lovejoy, Laboratory and Field Assistant, Plant Breeding and Nutrition.
B.S., Maine, 1928; M.S., Wisconsin, 1935

Irvin Carrol Mason, Laboratory and Field Assistant, Blueberry Investigations.
B.S., Maine, 1930; M.S., 1932

Andrew Elwell Watson, Graduate Assistant in Agricultural Economics.
B.S., Maine, 1934

Faculty of Extension Service

(COLLEGE OF AGRICULTURE)

Arthur Lowell Deering, Director.
B.S., Maine, 1912; Sc.D., 1934
George Edgar Lord, Assistant Director.
B.S., Maine, 1924

State Agents

Raymon Neale Atherton, Extension Economist, Marketing.
B.S., Maine, 1918
Edna Mansfield Cobb, Home Management Specialist.
B.S., Cornell University, 1928
Donald Philip Corbett, Assistant Dairy Specialist.
B.S., Maine, 1934
Leone Mae Dakin, Foods Specialist.
B.S., Maine, 1926
*Clarence Albert Day, Extension Editor.
M.S., Maine, 1929
Albert Kinsman Gardner, Crops Specialist.
B.S., Maine, 1910
George Edgar Lord, County Agent Leader.
B.S., Maine, 1924
Kenneth Cousins Lovejoy, State Club Leader.
B.S., Maine, 1928
Smith Charles McIntire, Extension Economist, Farm Management.
B.S., Maine, 1932.
Stacy Ross Miller, Extension Economist, Farm Management.
B.S., Maine, 1932.
Bruce Bear Miner, Assistant Extension Editor.
B.S., Cornell University, 1935
Wendall Earl Mosher, Executive Secretary to Director of Extension.
B.S., Maine, 1929
Estelle Nason, State Home Demonstration Agent Leader.
B.S., Maine, 1922

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*Beginning December 16, 1935.

Albert Deane Nutting, Forestry Specialist.
B.S., Maine, 1927
*Donald Winslow Reed, Extension Economist, Farm Management.
B.S., Maine, 1922
Harrison Lambert Richardson, Poultry Specialist.
B.S., Maine, 1924
†Glenn Kenton Rule, Extension Editor.
B.S., Ohio State, 1917
Helen Constance Spaulding, Clothing Specialist.
B.S., Simmons, 1913
Loana Mary Spearin, Assistant State Club Leader.
Richard Foster Talbot, Dairy Specialist.
B.S., Maine, 1907
Oscar Lewis Wyman, Assistant Crops Specialist.
B.S., Maine, 1926

County Agents

Verne Curtis Beverly, Aroostook County.
B.S., Maine, 1920
Richard Francis Blanchard, Oxford County.
B.S., Maine, 1931
Ralph Ashton Corbett, Franklin County.
B.S., Maine, 1930
Richard Carlton Dolloff, Assistant County Agent, Aroostook County.
B.S., Maine, 1927
Charles Leslie Eastman, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1922
Frank Wilbur Hagan, Somerset County.
B.S., Maine, 1933
Ralph William Hobson, Washington County.
B.S., Maine, 1925
Raymond Harwood Lovejoy, York County.
B.S., Maine, 1921
Wesley Spaulding Norton, Kennebec County.
B.S., Maine, 1935
Philip Stewart Parsons, Waldo County.
B.S., Maine, 1934

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*On leave of absence, 1935-36.
†Resigned, to take effect December 15, 1935.

Coleman Cedric Randall, Assistant County Agent, Penobscot County.
B.S., Maine, 1933

Lewis Pollard Roberts, Piscataquis County.
B.S., Maine, 1931

Wilfred Sherman Rowe, Cumberland County.

Melzor Stetson Smith, Penobscot County.
B.S., Maine, 1931

Gardner Berry Tibbetts, Hancock County.
B.S., Maine, 1922

George Frederic Warren, Jr., District County Agent, Cumberland and York Counties.
B.S., Cornell University, 1935

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

Home Demonstration Agents

Hortense Bradbury, Washington County.
B.S., Maine, 1935

Ruth Isabel Callaghan, Oxford County.
B.S., Maine, 1933

Margaret Lillian Childs, Kennebec County.

Charlotte Elizabeth Cleaves, Penobscot County.
B.S., Maine, 1931

Francelia Pearl Dean, Piscataquis County.
B.S., Maine, 1934

Lucy Farrington, Aroostook County.
B.S., Maine, 1927

Agnes Freyer Gibbs, Cumberland County.
B.S., Framingham Normal, 1926

Jessie Mildred Lawrence, Knox and Lincoln Counties.
B.S., Maine, 1928

Gladys Winnifred Marble, York County.
B.S., Simmons, 1919

Agnes May Massé, Waldo County.
B.S., Maine, 1928

Evelyn June Mills, Hancock County.
B.S., Maine, 1933

Elizabeth Tryon, Franklin County.
B.S., Maine, 1933

Doris Elaine Urquhart, Somerset County.
B.S., Rhode Island State, 1927

Hortense Agnes Welch, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1927

County Club Agents

Spurgeon Kearney Benjamin, Waldo County.
B.S., Maine, 1935
Earle Theodore Blodgett, York County.
B.S., Maine, 1927
Ruth Mabelle Clark, Knox and Lincoln Counties.
B.S., Maine, 1932
Louise Marcia Hill, Cumberland County.
B.S., Maine, 1933
Allegra Maxine Ingerson, Kennebec County.
B.S., Maine, 1934
Martha Corinne Merrill, Penobscot County.
B.S., Farmington Normal, 1928
Marjorie Moulton, Aroostook County.
B.S., Maine, 1933
Wayne Schermerhorn Rich, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1934
Doris Eleanor Rosen, Oxford County.
B.S., Maine, 1934

Committees of the University Faculty

ADMINISTRATION—President, University and College Deans, Dean of Men, Registrar, Treasurer

ASSEMBLIES—Lutes, Muilenburg. Student members: Actor Abbot, Jr., Cathryn Hoctor, Chester Smith, Alice Stewart

ATHLETICS—Corbett, Gardner, A. K., Kent

COE RESEARCH FUND—Dickinson, Ashby, Brautlecht, Chase, G. D., Griffee, Hill, A. S., Hitchner, Steinmetz

EDUCATIONAL RESEARCH—Hart, Bennett, Brautlecht, Bryan, Crawford, Evans, Fitch, Fundenburg, Greene, Jensen, Jones, Leavitt, Lutes, Merchant, Sweetman, Watson

ELIGIBILITY—Gannett, Curtis, Sprague, A. W., Wilson, E. G.

FINANCIAL AFFAIRS—Youngs, Kent, Pierce

HEALTH—Tomlinson, Corbett, Lengyel, Wallace, Wilson, E. G.

HONORS—Ellis, Brann, Buzzell, Chadbourne, A. H., Creamer, Dow, G. F., Greene

MILITARY—Alcott, Hauck, Cloke, Deering, Lutes, Muilenburg

PUBLICATIONS—Gannett, Crawford, Dorsey, Ibbotson, Leavitt, Peterson

PUBLICITY—Moreland, Bray, Crawford, Crossland, Day, Gannett

RADIO—Dow, E. F., Crawford, Creamer, Lathrop, Loring

RHODES SCHOLARSHIP—Chase, G. D., Ashby, Corbett, Hart, Jenness

SCHEDULE—Weston, Dorsey, Evans, Gannett, Peterson, and College Deans

SECONDARY SCHOOL RELATIONS—Hart, Cloke, Deering, Gannett, Lutes, Muilenburg

SOCIAL AFFAIRS—Small, Corbett, Sweetser, Wilson, E. G., Youngs

WOMEN STUDENTS—Wilson, E. G., Buzzell, Chadbourne, A. H., Crosby, Greene, Lengyel, Sweetman

GENERAL INFORMATION

HISTORY

The University of Maine is a part of the public educational system of the State. It was established originally as the State College of Agriculture and the Mechanic Arts under the provisions of the Morrill Act, approved by President Lincoln in 1862. The next year the State of Maine accepted the conditions of the Act and in 1865 created a corporation to administer the affairs of the college.

The institution opened September 21, 1868, with a class of twelve members and a faculty of two teachers; Dr. Merritt Caldwell Fernald was appointed acting president. 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. Women have been admitted as students since 1872, in compliance with special legal enactment. The original name was changed to the University of Maine in 1897. The School of Education was established in 1930.

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. Later it was located on the campus at Orono. It was discontinued in 1920.

Graduate instruction has been given by various departments for many years. The first master's degree was conferred in 1881. Since 1923 graduate work has been a separate division in charge of a dean.

Beginning with 1902, a Summer Session has usually been held annually, consisting at first of five weeks, but now of six. It is designed primarily for teachers and educational administrators and for college students who desire to make up work or secure additional credits.

To provide permanently for the support of the University the Legislature in 1929 passed an act levying a tax of one mill on the general property valuation of the State.

The University is controlled by a Board of Trustees. The first Board was composed of sixteen members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Trustees. At the present time seven members 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 has been served by the following presidents: Rev. Charles Frederick Allen, Dr. Merritt Caldwell Fernald, Dr. Abram Winegardner Harris, Dr. George Emory Fellows, Dr. Robert Judson Aley, Dr. Clarence Cook Little, Dr. Harold Sherburne Boardman, and Dr. Arthur Andrew Hauck.

LOCATION

The University is located in Orono, an attractive town of 3,400 population, with good schools and four churches. The extensive campus, situated about a mile from the business section, borders the Stillwater River, a branch of the Penobscot, and is of great beauty.

Orono is situated on the main line of the Maine Central Railroad, eight miles east of Bangor. It is half way between Kittery, the most southerly town in the State, and Fort Kent, the most northerly. It is not far from the center of population of the State. The campus, which is nine miles from Bangor and three from Old Town, is connected with both cities by a paved highway offering easy access by automobile. Cars of the Bangor Hydro-Electric Company also afford a half-hour trolley service in both directions.

Bangor, the third city of the State in size, has a population of about 29,000 and is an important business center. The location of the University gives students an opportunity to avail themselves of its social, religious, and other advantages. Old Town is a manufacturing city with about 7,200 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

Balentine Hall (1914).—The largest women's dormitory, with accommodations for 115 students. Named in honor of Elizabeth Abbott Balentine, secretary and registrar of the University, 1895-1913.

Colvin Hall (1930).—A women's dormitory with accommodations for forty-eight students. Named in honor of Professor Caroline Colvin, a former head of the Department of History and Government and the first dean of women at the University.

Hannibal Hamlin Hall (1911).—A men's dormitory with accommodations for 152 students. Named for the Hon. Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees.

The Maples.—A building remodelled in 1931 to serve as a women's dormitory. It accommodates forty-six students.

North Hall.—A residence for Home Economics women, used as a laboratory for the course in Household Administration.

Oak Hall (1871).—A men's dormitory with accommodations for ninety-two students. Named for the Hon. Lyndon Oak, of Garland, a long-time member and president of the Board of Trustees.

South Hall.—A women's dormitory, the former University Inn, located in the village of Orono, with accommodations for thirty-eight students. It is maintained at minimum expense by the students under trained supervision.

Alumni Hall (1901), contains administrative offices, a gymnasium for women, and a Little Theatre. It received its name because of contributions made by alumni to supply a part of the funds for its erection.

Alumni Memorial consists of an Indoor Field and Armory (1926) and a Gymnasium (1933). It is a memorial to the Maine men who died in the service of their country in the Spanish-American and World Wars, and is the gift of alumni, faculty, and friends of the University.

Aubert Hall (1914) houses the Departments of Chemistry and Chemical Engineering, Pulp and Paper Technology, and Physics. It was named in honor of Alfred Bellamy Aubert, professor of chemistry from 1874 to 1910.

Coburn Hall (1888) houses the Department of Botany and Entomology and the Department of Zoology. It was named for the Hon. Abner Coburn, of Skowhegan, a former president of the Board of Trustees and benefactor of the University.

Crosby Laboratory (1928) contains the laboratories of the Department of Mechanical Engineering. It was named for the Hon. Oliver Crosby, Class of '76, who bequeathed $100,000 for its construction.

Fernald Hall (1870), the oldest building on the campus, contains offices and classrooms used by the College of Technology, the office of the Alumni Association, the University Store, and the quarters of the Health Department. It was named in honor of ex-President Merritt C. Fernald.

Holmes Hall (1888) is the building used by the Maine Agricultural Experiment Station. It received its name from Dr. Ezekiel Holmes, of Winthrop.

Library Building (1906) was erected and furnished by the generosity of Andrew Carnegie, who gave $55,000 for that purpose. The Hallowell

Granite Works supplied the granite at a price equivalent to a gift of several thousand dollars.

Lord Hall (1904) is used by the Departments of Electrical Engineering and Mechanical Engineering. It was named for the Hon. Henry Lord, of Bangor, a former president of the Board of Trustees.

Merrill Hall (1831) is devoted to work in Home Economics. It was named in honor of the late Leon S. Merrill, dean of the College of Agriculture from 1911 to 1933.

Rogers Hall (1928) houses the divisions of Animal Husbandry and Dairy Husbandry of the Department of Animal Industry and contains laboratories for the manufacture of dairy products. It was named in honor of Dr. Lore A. Rogers, chief of research laboratories, Bureau of Dairy Industry, U. S. Department of Agriculture.

Stevens Hall (1924), with two wings constructed in 1933, supplies accommodations for the larger part of the work of the College of Arts and Sciences and also the School of Education. It was named in honor of Dean Emeritus James S. Stevens, for many years dean of the College of Arts and Sciences.

Wingate Hall (1892) is used by the Departments of Civil Engineering and Engineering Drafting and in addition contains the Technology Experiment Station laboratories. It was named for the Hon. William P. Wingate, a former president of the Board of Trustees.

Winslow Hall (1909) is used by various departments of the College of Agriculture and the Extension Service. It was named for the Hon. Edward B. Winslow, of Portland, a former president of the Board of Trustees.

Minor buildings comprise the Agricultural Engineering Building, Horticultural Greenhouses, Milk House, Poultry Buildings, Research Building, Stock Judging Pavilion, Mechanical Engineering Shops, Maine Christian Association Building, Observatory, Infirmary, Print Shop, the Central Heating Plant, the President's house, five residences occupied by faculty members, and various farm buildings.

Marine Station.—The University of Maine Marine Biological Station is located at East Lamoine on the northeast shore of Frenchman's Bay within fifty miles of the University. The buildings provide adequate housing for laboratories, research workers, students, and faculty. A pier with 400 foot frontage, row boats, and a motor boat, and various types of collecting apparatus

facilitate marine investigation. Both research work and organized class work have been at times in operation at the Station.

Fraternity Houses.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Lambda Chi Alpha, Phi Kappa Sigma, Sigma Alpha Epsilon, Sigma Chi, Theta Chi, Sigma Nu, and the Phi Eta Kappa Society have houses on the campus. The following chapters own houses in the vicinity of the University: Alpha Tau Omega, Phi Gamma Delta, Phi Mu Delta, and Tau Epsilon Phi on College Road, and Alpha Gamma Rho on Grove Street. These houses accommodate from twenty to fifty students each.

ATHLETIC FIELDS

Alumni 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, and track and field athletics. It contains a grandstand with a seating capacity of 2,100 and also bleachers seating 4,600.

A new varsity baseball field has been completed. It is one of the best in New England and conforms to all major league field requirements. One hard-surface tennis court and three clay courts have recently been constructed. Additional territory is being developed for freshman baseball, practice football fields, and physical education purposes.

Athletic Field for Women.—A field on the southern end of the campus consists of a regulation hockey field, archery range, seventy-five yards of cinder straightaway, and a twenty-four foot jumping pit. A field house on the western border has just been completed. It consists of a club room, a store room for athletic equipment, and kitchenette. Besides serving for instruction and rest for teams not in action, it is used for picnics, social gatherings, and as a reading room.

THE UNIVERSITY FARMS

The University farms consist of approximately 635 acres divided into two farms, one of which adjoins the campus while the other is located in Stillwater. The land under cultivation amounts to 258 acres, divided as follows:

208 acres for farm crops, ten acres for orchards, two acres for the forest nursery, eighteen acres for poultry lots, twenty acres for systematic forestry, and 377 acres of forest and pasture lands. These farm lands, together with the campus, make the University holdings at Orono and vicinity approximately 735 acres.

THE LIBRARY

The University Library contained at the end of the academic year 116,106 volumes and 29,735 pamphlets. In addition to the general collection of books it includes the following of a more special nature: Law Library, 5,600 volumes, the greater part of which are on deposit in the Court House at Bangor; Agricultural Experiment Station Library, 9,256 volumes, on deposit in the Library Building; Reference Collections shelved in the Department of Physics and the College of Agriculture. About 460 periodicals are subscribed for by the library; 200 received as gift or exchange; 200 received by the Agricultural Experiment Station.

The library is housed in a building erected in 1906 by gift of Andrew Carnegie. The reading and seminar rooms have seating accommodations for 150 students. In the seminar rooms are shelved German, French, Spanish, Italian, Greek, and Latin literature and language; history; and material relating to the State and the University of Maine. The two basement reading rooms contain the books and periodicals on the subjects of education and agriculture. The reference room contains a working collection of almanacs, atlases, concordances, dictionaries, encyclopedias, and yearbooks for the convenience of the student, and for use in the room.

Elementary instruction in the use of the library is given new students during Freshman Week. This includes lectures and practice in the use of the catalog and magazine indexes.

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. Transportation charges are payable by the borrower.

Any book in circulation or shelved elsewhere on the campus may be recalled to the library at any time. All library books must be returned to the library before the close of the academic year in June for inventory, repair, and binding.

Library Hours

7:45—9:30 p.m. Monday—Thursday
7:45—9 p.m. Friday
8 a.m.—5 p.m. Saturday
2 p.m.—9:30 p.m. Sunday

COLLECTIONS

Art Collection

The art collection, assembled to facilitate the study of art history, consists of photographs, prints, engravings, polychrome reproductions, and plaster casts. The collection has a temporary home in the Library, the gallery of which is used for the exhibition of many of the plaster-cast reliefs and the larger framed works.

The University possesses several of the famous polychrome prints published by the Arundel Society. These and many other colored reproductions representing nearly all the great masters of Italian painting have been framed. The lecture room in the Library building contains framed examples of the work of the chief Florentine and Umbrian masters of the fourteenth and fifteenth centuries.

The art-teaching apparatus has been lately augmented by a Carnegie Corporation gift of more than two thousand photographs and prints, bringing the total collection of this type of reproduction up to about seven thousand. This collection is being indexed and cataloged, and it will soon be available for the general reader in quest of data in various fields of historical research.

Exhibitions of prints and other items, some loans and the rest from the University collection, are arranged for a considerable part of the year in the faculty room in Stevens Hall, which has been turned into a temporary exhibition space to supplement the collection of casts and pictures on display in the Library.

Scientific Collections

The biological collections are located in Coburn Hall.

Zoology.—These collections consist of a working collection of bird skins; a display collection of bird mounts; a study collection of various other groups of both vertebrates and invertebrates. These are arranged in the various rooms and laboratories where they are best available for purposes of class use.

Botany.—These collections are situated in room 24 on the second floor. 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.

Geology.—The greater part of these collections are stored in the basement of the South Wing of Stevens Hall. Wall cases, containing such specimens as are necessary for classroom and lecture illustrations, have been placed in Winslow and Fernald Halls.

UNIVERSITY PUBLICATIONS

Maine Bulletin.—A publication issued monthly from August to May inclusive with two issues in the month of March, to give information to the alumni and the general public. It includes the Biennial Report, the Summer Session Bulletin, and the Annual Catalog.

University of Maine Studies, Second Series.—A series of research studies by members of the faculty and graduate students, published under the direction of the Faculty of Graduate Study.

Annual Report of the Agricultural Experiment Station and the Agricultural Experiment Station Bulletins.—These give complete results of the investigations by the Station and the results of the inspections of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs and foods, and fungicides and insecticides.

Official Inspections 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, News, and Radio Releases are issued by the Extension Service. Single copies of bulletins and circulars will be mailed to any Maine resident who makes the request. News releases are sent to all daily and weekly newspapers. Radio releases are issued each week to four coöperating broadcasting stations in Maine.

Technology Experiment Station Publications consist of bulletins giving the results of investigations and research, and are usually sent free of charge on request.

The Maine Alumnus, published nine times during the academic year by the General Alumni Association, is sent to former students of the University.

Student publications are described in the section "Student Activities."

HEALTH SERVICE

The Health Department offers certain services, including medical examination, clinic, infirmaries, and isolation to those students paying the health fee. The staff is composed of a University doctor and two nurses. Students, however, are free to consult any physician they desire but at their own expense. A clinic service, located at 20 Fernald Hall, is available daily except Sunday. There is an infirmary for men in Hannibal Hamlin Hall and one for women in Balentine Hall. The University Health Service cannot treat patients suffering with chronic illnesses, those requiring surgical treatment or those in need of the services of a specialist.

TEACHERS' REGISTRATION BUREAU

A registration bureau for teachers, located in the office of the Dean of the School of Education in Stevens Hall, undertakes to assist properly qualified graduates and former students in securing positions. All seniors who plan to teach are urged to register with the committee. Correspondence with officials who are looking for teachers is welcomed. No fee is charged for this service to students.

PLACEMENT BUREAU

A University Placement Bureau was inaugurated in 1935 by the University in coöperation with the General Alumni Association to offer to graduates and employers a central bureau of information. The Bureau is administered with a threefold purpose, namely: (1) to discover and to increase the opportunities for employment of Maine graduates in all fields of work other than teaching; (2) to gather complete information about graduates for employers and about business concerns and trends for graduates and to help them make valuable contacts in their chosen fields; (3) to coöperate with the University departments in helping graduates to discover the kind of employment for which they have both training and interest so as to decrease as much as possible the changes and readjustments of postgraduate employment.

The Bureau is primarily designed to offer to the recent graduate all the assistance possible in solving the problem of unemployment, while recognizing that in the final analysis the actual obtaining of work must depend on the individual. No charge to students, first-year graduates, or employers is made, although a nominal fee to cover clerical costs is charged older alumni wishing to register. The duties of the Bureau also include the attempt to secure part-time work during the college year and summer employment for undergraduates. The Bureau endeavors to assist the greatest number of

students possible, both graduate and undergraduates, to locate satisfactory employment, and will welcome inquiries from employers regarding its policies and services.

STUDENT ACTIVITIES

Cooperative Government

Student Senate.—The men's Student Senate exists to act as a coördinating body between the University administration and the student body and to make recommendations to the administration. It is formally recognized by the faculty and the board of administration as the official and truly representative group in all matters that call for discussion and adjustment between the student body and its superiors. The Senate is empowered to investigate any question relative to the student body or any member thereof and to recommend action on the same to the administration. The Senate is empowered to summon before it any student or students for trial or testimony. It is truly representative of the men students of the University, being composed of representatives from: (a) each fraternity, (b) the dormitory men, (c) the off-campus men. It maintains a joint committee with the Women's Student Government. It is a member of the National Student Federation of America.

Women's Student Government Association.—All women registered at the University of Maine are members of this association. The purpose of the organization is to encourage among the women of the University an active sense of responsibility for self government. It also attempts to promote the highest standards of honor and integrity in all matters of personal conduct. The association enacts whatever laws are necessary to maintain congenial relationships on the campus.

Religious Activities

Maine Christian Association.—The Maine Christian Association, open to all students, has as its object the promotion of Christian fellowship, knowledge, and service. The work is done by student committees, under the guidance of a man and a woman secretary and a group of coöperating pastors. The Association conducts religious services, discussions of practical student questions and social problems, holds retreats, sends out religious deputations to churches and schools, brings comfort to the sick, and in general seeks to meet the spiritual needs of the students. The secretaries act as representatives of several coöperating denominations. The work centers in the Maine Christian Association Building, which also serves as a union building for student activities. Its rooms for reading, rest, recreation, meals, study, and worship are open all day.

Honor Societies

There are at the University a number of honor societies designed to recognize attainment and promise in its various divisions. These elect to membership at regular intervals according to their respective standards, those students whom they desire to honor. The tabulation below shows the scope of each society.

Phi Kappa Phi.—All colleges and the School of Education.
Alpha Zeta.—Agriculture.
Kappa Delta Pi.—School of Education.
Omicron Nu.—Home Economics.
Phi Beta Kappa.—College of Arts and Sciences.
Tau Beta Pi.—Engineering.
Xi Sigma Pi.—Forestry.

Professional and Departmental Organizations

Many departments or divisions of the University sponsor an organization to bring together students having a common interest. Such clubs with the subject in which each specializes follow.

Professional Societies

Alpha Chi Sigma.—Chemistry, Chemical Engineering, and Pulp and Paper Technology.
American Chemical Society.—Chemistry, Chemical Engineering, Pulp and Paper Technology.
Student Branch of the American Society of Civil Engineers.
Branch of the American Institute of Electrical Engineers.
American Society of Mechanical Engineers.
Branch of the American Home Economics Association.
Kappa Phi Sigma.—Education.
Scabbard and Blade.—Military.

Departmental Clubs

Agricultural Club.
Circulo Español.—Spanish.
College 4-H Club.—Boys' and Girls' Agricultural and Home Economics Clubs.
Contributors' Club.—Creative writing.
Delta Pi Kappa.—Music.

Deutscher Verein.—German.
Education Club.
Forestry Club.
Home Economics Club.
Kappa Gamma Phi.—Journalism.
Maine Masque.—Dramatics.
Sigma Delta Zeta.—Mathematics.
Sigma Mu Sigma.—Psychology.
Sodalitas Latina.—Latin.

Musical Organizations

University Band.—This organization is attached to the Military Department. Rehearsals are credited as regular class work under the director of music. A particular aim is to develop leadership, and to this end, in coördination with the course in interpretation and conducting in the Music Department, students properly qualifying are coached to conduct the concert presentations of the band. The band plays for various university functions and games and makes concert trips.

University Chorus.—This organization, open to both men and women students, has for its objective the study and public performance of choral music. Participation in college assemblies, student concerts, a National Music Week oratorio concert with the Bangor Symphony Orchestra, and the annual Bangor Music Festival comprises the program. The sharing in programs at the Festival with world-famous musicians and concert artists renders this choral work inspiring and memorable. The chorus is conducted by the Director of Music as class work, for which students receive credit. Conditions of membership are listed under the Department of Music (Courses 25, 26).

University Orchestra.—This organization, recruited from the outstanding student talent, devotes weekly rehearsals to the study of standard and symphonic music. Its repertoire is presented in concerts on and off the campus. It accompanies the University Chorus and soloists in the annual Music Night program. Credit is granted for orchestra participation. Conditions are listed under the Department of Music (Courses 27, 28).

Social Fraternities and Sororities

The following fraternities and sororities have chapters, the figures in parentheses giving the dates chapters were established at the University.

Fraternities.—National: Beta Theta Pi, (1879); Kappa Sigma (1886); Alpha Tau Omega, (1891); Phi Kappa Sigma, (1898); Phi Gamma Delta, (1899); Sigma Alpha Epsilon, (1901); Sigma Chi, (1902); Theta Chi,

(1907); Delta Tau Delta, (1908); Lambda Chi Alpha, (1913); Sigma Nu, (1913); Phi Mu Delta, (1923); Alpha Gamma Rho, (1924); Tau Epsilon Phi, (1929). Local: Phi Eta Kappa, (1906).

SORORITIES.—National. Alpha Omicron Pi, (1908); Phi Mu, (1912); Delta Delta Delta, (1915); Pi Beta Phi, (1920); Chi Omega, (1921); Delta Zeta, (1924).

Student Publications

MAINE CAMPUS.—A newspaper published weekly during the academic year by an editorial board composed of students.

THE MAINE REVIEW.—A quarterly magazine under student management, designed to express the various intellectual interests of the University.

PRISM.—An illustrated annual published by the junior class.

Men's Debating Society

The Debating Society is open to all students interested in forensic work. Questions of public interest are discussed. The members make a special study of the questions used for intercollegiate debating. From this group representatives are chosen to speak before luncheon clubs, grange meetings, and community gatherings, and to participate in the intercollegiate debates.

The University of New Hampshire, Bates College, Rhode Island State College, New York University, Rutgers University, the University of Vermont, Boston University, Massachusetts State College, Bowdoin College, and Colby College are among the institutions usually scheduled for these debates, which are frequently of a dual nature. Members of this society are selected to represent the University on a debating tour of Eastern institutions.

Women's Forum

Membership in the Forum is open to all University women. The group meets once every three weeks for the purpose of discussing informally subjects of special interest to its members. Women's intercollegiate debating is sponsored by the Forum; however, no one is obligated to participate in this phase of the activity. During past years, the teams have taken part in debate with nearly every outstanding university in the East.

CHURCH SERVICES

Students receive a cordial welcome at the services of the churches of Orono—the Methodist Episcopal Church, St. John's Universalist Church, St. Mary's Roman Catholic Church, and the undenominational Fellowship Church. Other denominations are represented at Old Town and Bangor.

ADMISSION

ADMISSION TO THE FRESHMAN CLASS

General Requirements

Candidates for admission to the freshman class should apply to the Dean of the University for an application card and other necessary blanks. These blanks should be returned promptly together with the application fee of $10 (and room deposit of $15 if a dormitory room is desired). *In order that all candidates may receive equal consideration, it is desired that applications be filed as early as May first of the year the candidate wishes to enter.*

Candidates must present satisfactory certificates of fitness, or pass the required examinations and on registration day make a cash deposit covering the bills of one semester. The University admits men and women, both residents of Maine and non-residents; it reserves the right to terminate admissions whenever the capacity of the University to care properly for the students has been reached.

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

Admission from Schools in Maine

Graduates of Maine high schools or academies may be admitted on their school records provided they have completed, with recommending grades, a course of study including all the subjects needed for admission to the curriculum that they wish to follow (see page 46) and are fully recommended by their principal.

Final decision regarding each candidate will be made by the University. In reaching such decision both the candidate's school record and the additional information called for below will be considered.

Principals should recommend only candidates whose scholastic attainments, industry, interests and habits of study give definite promise of success in college work. If a candidate has a poor record during his last year or shows weakness in any subject vital to the curriculum he wishes to take in college, he may be refused admission. In general, greater weight will be given to the character of the candidate's work in the latter part of his course than to his earlier record.

In addition to the school record, the following information is asked for:

A. From the student. The candidate is asked to answer a series of questions showing his favorite studies, his school activities, his choice of a life work, and other matters bearing upon his preparation for college work. So far as possible, a personal interview will be held with each candidate.

B. From the principal and teachers. The principal and two teachers named by the student are asked to give details regarding his character, class standing, activities, and general fitness for pursuing a college course.

This additional information is used in deciding any doubtful cases of admission and in the guidance of freshmen.

Candidates from Maine schools may also gain admission by passing the entrance examinations, as described below.

Admission from Schools Outside of Maine

Candidates from secondary schools outside of Maine will be admitted on certificate of the principal, provided the school is accredited by its state university or the recognized accrediting agency of the state or region in which the school is located. Certificates issued by the regents of the University of the State of New York are accepted for any of the subjects in which admission credit is allowed, provided they have been passed with satisfactory grade.

Admission by Examinations

Entrance examinations are held at Orono before the fall registration of freshmen. A schedule of the examinations will be furnished on request. Candidates for admission who wish to be examined in the spring can take the examinations at their own school, provided the principal is willing to arrange for giving the tests. These examinations are given during the fourth week in May. On request of any principal the University will send the necessary examination papers. Such requests should be received before May 12.

The examinations given by the College Entrance Examination Board will be accepted by the University. These examinations will be held during the week June 15-20, 1936. All applications for these examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, 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 24 and must be accompanied by the examination fee of $10.00.

Information on Freshman Week

About August 12 parents of each candidate admitted will receive from the Registrar's office a letter giving detailed instruction about arrangements

for Freshman Week. Parents of candidates admitted after August 12 will receive the information at the time the candidate is admitted to the University.

Reports to Parents

The record of every freshman will be carefully reviewed at the end of eight weeks and again at the close of the first half-year's work. Reports are sent to parents at each of these dates.

Subject Requirements

Requirements for the individual colleges differ as shown below.

College of Arts and Sciences

English	3	units
Foreign language (three years in one or two in each of two)	3 or 4	"
History	1	unit
Mathematics (Algebra and Plane Geometry)	2	units
Electives	6 or 5	"
Total	15	units

College of Agriculture

English	3	units
*Algebra	1	unit
*Plane Geometry	1	"
Science	1	"
History	1	"
Electives	8	units
Total	15	units

College of Technology

English	3	units
Foreign language (two years in one)	2	"
Algebra	2	"
Plane Geometry	1	unit
History	1	"
Science	1	"
Electives	5	units
Total	15	units

Elective Units

The electives may be selected as shown in the following table. Subjects not listed may be accepted among the electives, provided they represent a satisfactory equivalent for any of those named. In general, it is advisable that the electives be taken from the fields of language, mathematics, natural science, and social science.

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*For admission to the Home Economics curriculum, two units in mathematics acceptable to the Committee on Administration are required.

Subjects	Units Accepted		Units required and units accepted in the several colleges					
			Arts and Sciences		Agriculture		Technology	
	Min.	Max.	Req.	Acc.	Req.	Acc.	Req.	Acc.
English	3	3	3	3	3	3	3	3
French	*2	4	Three units in one language or two in each of two	2, 3, or 4		1, 2, 3, or 4	Two units in one language††	1, 2, 3, or 4
German	2	4		2, 3, or 4		1, 2, 3, or 4		1, 2, 3, or 4
Greek	2	3		2 or 3		1, 2, or 3		1, 2, or 3
Latin	2	4		2, 3, or 4		1, 2, 3, or 4		1, 2, 3, or 4
Spanish	2	3		2 or 3		1, 2, or 3		1, 2, or 3
Algebra (Elem.)	1	**2	1	2	§1	2	2	2
Plane geometry	1	1	1	1	§1	1	1	1
Solid geometry	½	½		½		½		½
Trigonometry	½	½		½		½		½
Algebra (Adv.)	½	½		½		½		½
History	1	4	1	1, 2, 3, or 4	1	1, 2, 3, or 4	1	1, 2, 3, or 4
Civics	½	1		½ or 1		½ or 1		½ or 1
Economics	½	1		½ or 1		½ or 1		½ or 1
Biology	†1	1		1	One unit in Science	1	One unit in Science	1
Botany	†1	1		1		1		1
Chemistry	†1	2		1 or 2		1 or 2		1 or 2
Physics	†1	2		1 or 2		1 or 2		1 or 2
Physiography	½	1		½ or 1		½ or 1		½ or 1
Physiology	½	1		½ or 1		½ or 1		½ or 1
Zoology	†1	1		1		1		1
General Science	½	1		½ or 1		½ or 1		½ or 1
Agriculture	1	4		Not over two units in all of these		Not over five units in all of these		Not over four units in all of these
Domestic Science and Art	1	4						
Drawing	‡½	2						
Manual Training	‡½	2						
Commercial Subjects	½	4						
Music	½	1		½ or 1		½ or 1		½ or 1
Bible Study	½	1		½ or 1		½ or 1		½ or 1
Debating	½	1		½ or 1		½ or 1		½ or 1

*The minimum accepted in foreign languages applies to the College of Arts and Sciences only.

**Two units credit for elementary algebra completed. Technology can-

didates are expected to take some mathematics during their last year in school.

†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 footnote at bottom of page 47.

††Latin or French preferred.

Requirements in Detail

ENGLISH

The entrance examination in English presupposes a study of English literature and of composition and rhetoric pursued throughout the preparatory school course. Candidates are expected to have had practice in writing equivalent to at least one composition a week during each of the four years in high school, and to have studied the elements of rhetoric in some such text as, for example, Tanner's *Rhetoric and Composition.*

The examination is designed mainly to test the candidate's ability to express his thoughts 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. Candidates are advised to give special attention to sentence construction, grammar, idiomatic usage in words and phrases, spelling, punctuation as a means of securing clearness, paragraph formation.

A portion of the examination will be devoted to questions on the works in English and American literature customarily studied in high school. These are designed to reveal how thorough and intelligent has been the student's understanding of what he has read.

FOREIGN LANGUAGES

LATIN.—The following requirements are based upon a report to the College Entrance Examination Board in 1925.

I. *Amount and range of the reading recommended.* There are no prescribed readings in Latin, but the following recommendations are made:

1. In the second year the pupil should read easy Latin of gradually increasing difficulty. This may consist in part of "made" or adapted Latin. Not less than one semester of this year should be devoted to the reading of selections from Caesar. The reading for the year may also include easy selections from such authors as Aulus Gellius, Eutropius, Nepos, Phaedrus, Quintus Curtius Rufus, and Valerius Maximus.

2. In the third year, if the reading is in prose, not less than one semester should be devoted to the reading of selections from Cicero. The reading for the year may also include selections from such authors as Pliny, Sallust, and Livy.

3. In the fourth year, if the reading is in poetry, not less than one semester should be devoted to the reading of selections from Vergil. The reading for the year may also include selections from such works as the *Metamorphoses, Tristia, Heroides,* and *Fasti* of Ovid, or books of selections containing poems or extracts from Ovid or other poets.

II. *Description of the examination.* The examination aims to test the proficiency of those who have studied Latin in a secondary course of five lessons each week extending through two, three, or four years. (An examination on forms, syntax, and easy translation is provided for candidates in Agriculture and Technology offering one year of Latin, and for candidates in Arts offering one year of Latin taken in the last two years of the high-school course.)

The paper will include:

1. Passages of Latin prose and verse for translation.

2. Passages of Latin prose and verse for comprehension. Candidates will be asked qustions to test their understanding of these passages but will not be required to translate them.

3. English passages to be translated into Latin for candidates presenting two or three years of Latin. Candidates presenting four years of Latin in one examination will also be expected to answer these questions.

4. Questions on forms, syntax, and idioms in these passages, as well as such questions on subject matter, historical and literary, as may fairly be asked.

Credit will be given for passing the following College Entrance Board Examinations: Cp. 2, Cp. 3, Cp. 4, Cp. H, and Cp. K.

III. *Latin Word List.* The College Entrance Examination Board has prepared a Word List which indicates the vocabulary that students are expected to have at the end of two, three, and four years of study. Students will be expected to know accurately the words in this list.

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

I. *Elementary French.*—Students who desire to receive credit for two units of high-school French 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 fundamentals of French grammar.

II. *Intermediate French.*—Those who desire credit for three units should be able to read modern prose and verse of moderate difficulty and to write a composition upon any subject within the range of everyday experience. Such students should also have a thorough knowledge of French grammar as presented by the Fraser and Squair and other textbooks of the same type, including a thorough study of the uses of the conditionals and subjunctives, and in general of such material as may have been in the work of the first two years.

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—*Elementary.*—The first year's work should comprise: Careful drill upon pronunciation and oral work; the rudiments of grammar including the inflection of nouns, pronouns, and adjectives; the conjugation of the more common weak and strong verbs; the use of the more common prepositions; the conjugation and meanings of the modal auxiliaries; the elementary rules of syntax and word order; dictation and elementary composition; the reading of 75 to 100 pages of prose and poetry.

The second year's work should include the continued study of the grammar and composition, and the reading of 150 to 200 pages of literature.

The advanced German should include constant practice in conversation and composition, and the reading of about 400 pages of moderately difficult prose and poetry.

SPANISH—*Elementary.*—The equivalent of Course 1, 2 offered by the University. The first year's work is expected to familiarize the student with the fundamental principles of grammar, special stress being laid on the study of verbs and pronouns. Dictation, the translation of simple Spanish when spoken, and some translation into Spanish to illustrate principles of grammar will be employed. About 150 pages of modern prose will be read. In the second year in addition to the continued study of the grammar and the use of suitable exercises similar to those employed in the preceding year there should be read from 300 to 400 pages belonging to modern Spanish literature.

HISTORY

One unit is required by all colleges of the University for entrance. Four may be offered.

The student will be expected to show judgment as well as memory and be able to make comparisons and give summaries. Some knowledge of geography is required, and collateral reading is essential.

I. *Greek and Roman History.*—One unit.

Greek History.—To the death of Alexander with due consideration of Greek life, literature, and art. One-half unit.

Roman History.—To 800 A.D. with emphasis on government and institutions. One-half unit.

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

III. *American History.*—Including civics and with especial attention to social and economic life. One unit.

IV. *Medieval and Modern History.*—One unit.

Medieval History.—To 1500. One-half unit.

Modern European History.—From 1500 to the present. One-half unit.

V. *World History.*—Beginning with ancient civilization and coming down to the present time. One unit.

MATHEMATICS

Algebra.—As algebra is a necessary foundation for successful work in advanced mathematics, all candidates expecting to continue mathematics in college should have a thorough knowledge of elementary algebra. They should offer two units.

Algebra to Quadratics.—One unit. The usual first-year course should give facility in factoring, simplification of fractions, solution of simple equations in one and two unknowns, use of graphs, exponents and radicals (simple forms), ratio and proportion.

Quadratics and Beyond.—One unit. Quadratic equations, systems of equations in which at least one is of a degree above the first, progressions, binomial theorem with integral exponents, exponents and radicals, logarithms.

Trigonometry.—One-half unit. A half-year course with any standard textbook covering the definitions of the functions, the proofs of the standard formulas, the solution of right and oblique triangles by natural functions and by logarithms. Simple applications of trigonometry.

Plane Geometry.—The usual theorems and constructions which treat 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 which treat the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

Advanced Algebra.—Permutations and combinations with applications of the theory limited to simple cases: complex numbers with graphical representation of sums and differences: determinants, chiefly of the second, third, and fourth orders; methods of evaluating such determinants including the

method involving the use of minors; the application of determinants to the solution of systems of equations of the first degree: so much of the theory of equations including graphical methods, Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots, as is necessary for the solution of equations of higher degree with numerical coefficients; also the application of the theory to the solution of equations of this type.

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.

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 notebook 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.

Chemistry.—The necessary ground is covered by the first textbooks in chemistry, such as Brownlee and others; Hessler and Smith; McPherson, Henderson, and Fowler's *Chemistry for Today;* Newell; and Black and Conant. Records of laboratory work should be kept in permanent notebook form.

The work in chemistry should include at least ninety hours of classroom work and a full year of individual laboratory work of two double class periods weekly. The laboratory requirement is not limited to a specific number of experiments or exercises but must include a broad general training.

Physical Geography (Physiography).—A satisfactory preparation may be obtained from Davis's *Physical Geography* or one of similar grade.

Physics.—The necessary preparation is covered in one year in a good fitting school. This covers the fundamental facts in mechanics, heat, light, sound, electricity and magnetism. A two-hour laboratory period per week should be a part of the course. Approximately forty exercises should be covered in the laboratory. It is expected that the principal submitting a credit in physics vouches for a satisfactory notebook.

ADMISSION OF SPECIAL STUDENTS

Persons twenty-one 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 the Two-Year Course in Agriculture.—Candidates for admission to the Two-Year Course in Agriculture must have satisfactorily completed two years of high-school work.

ADMISSION BY TRANSFER

A student desiring to transfer to the University of Maine from another college of recognized standing must present the following credentials:

A statement of his entrance record.

A statement showing a complete record of his work while in attendance including faculty action, if any.

A letter of honorable dismissal.

These credentials must be sent directly from the Registrar's office and should be addressed to the Registrar of the University of Maine.

Applicants should notify the Registrar whether they desire admission to the College of Agriculture, the College of Arts and Sciences, the School of Education, or the College of Technology. A college catalog should be mailed unless the Registrar knows that the University of Maine is on the permanent mailing list.

REGISTRATION

Freshmen.—All members of the incoming freshman class are REQUIRED to be in residence on the campus during the period known as Freshman Week. The dates are announced in the calendar in the front of the catalog. Following the general plan employed since its establishment, 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 the University and its customs.

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

Upperclassmen.—In the fall semester of 1936, upperclassmen will be required to register on September 22, or to present written evidence that they have been excused from so registering by the University authorities. In other

words, upperclassmen must before September 22 have communicated with the dean of their college giving him their reasons for desiring to register late, and have received from him written authorization so to do. In the event of an unusual circumstance wholly beyond the control of the student, and occurring just prior to the opening of the fall semester, the student may present his case in person to the dean upon his arrival at the University. Late registration is a handicap both to students and to University authorities, and will be rigidly discouraged whenever and wherever possible.

STUDENT EXPENSES

A partial list of necessary expenses is indicated below. It includes only items which are fairly uniform for all students. The estimates are prepared upon the basis of students living in University halls. Board and room in South Hall are somewhat less than indicated below.

	Students from within the State			Students from without the State		
Tuition	$150.00			$250.00		
Textbooks	25.00	to	50.00	25.00	to	50.00
Board 34 weeks @ $6.50	221.00			221.00		
Room in Dormitory	85.00			85.00		
Special Assessment for Athletics & Debating	10.50			10.50		
Health Service Fee	2.00			2.00		
	$493.50	to	$518.50	$593.50	to	$618.50

The tuition for students taking the Two-Year Course in Agriculture is $70.00 a year. Such students do not pay the special assessment for athletics and debating.

Application for Admission

A fee of $10.00 is required at the time of application. Checks should be made payable to the University of Maine. This fee is refunded if the applicant is not admitted. 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 1, $10.00 will be refunded. In case of withdrawal after September 1, the entire deposit is forfeited, but may be applied toward the payment for a room if the applicant enrolls in the University the following year.

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.

Rooms

The rooms in the Maples, a freshman dormitory for women, accommodate one, two, or three students.

The rooms in Balentine Hall, accommodating one and two students each, and those in Colvin Hall, accommodating two and four students each, are available to all women students. The rooms in South Hall, the coöperative dormitory for women, accommodate two students each and are available to all women students. There is, however, a selection based on financial need, coöperation, and satisfactory scholarship.

The rooms in Oak Hall and the middle section of Hannibal Hamlin Hall accommodate two students each; the north and south sections of Hannibal Hamlin Hall accommodate four students each. Oak Hall and Hannibal Hamlin Hall are freshman dormitories for men.

Dormitory charges include steam heat and electric lights. The rooms in the dormitories 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 Dean of Women.

Applications for dormitory rooms should be addressed to the Registrar.

Gymnasium Uniform for Women

Every woman will be expected to purchase a prescribed uniform before coming to college. Information regarding uniform and place where it can be bought will be sent with application blanks. The approximate cost of the uniform is $15.00.

All women students who are using locker rooms and shower baths will be assessed fifty cents each semester for the use of towels. This assessment will be added to the term bill at the end of each semester.

Deposits to Cover Expenses

The University *requires all students to pay in advance.* The payments indicated below are required at the beginning of each semester.

Deposit	Residents of Maine	Non-Residents of Maine
Tuition	$ 75.00	$125.00
Board and Room	153.00	153.00
Key Deposit (men only)	5.00	5.00
Military Deposit (required of all men taking military instruction)	30.00	30.00
Special Assessment for Athletics and Debating	5.25	5.25
Health Service Fee	1.00	1.00
Freshman Week (Freshmen only)	8.00	8.00
	$277.25	$327.25

For students who do not room and board in University halls the above amounts are reduced by $158.00.

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

For students in the Two-Year Course in Agriculture the deposit required for tuition is $35.00.

Diploma Fee

All students receiving a degree are required to pay a diploma fee of $5.00.

Communications

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

LOAN FUNDS

Kittredge Fund.—This fund, amounting to over $2200, 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. Individual loans are limited to $50.

Boston Alumnae Fund.—This is a fund now amounting to over $550, available for women of high scholastic standing who have completed at least two years of college work. Loans shall in no case exceed $200.

Maine Campus Fund.—This fund, the gift of the Maine *Campus*, amounting to $320, is loaned to juniors and seniors whose conduct and scholarship are satisfactory, preference being given to those interested in the literary activities of the University. Amount loaned is limited to $50 per person. Loans must have the endorsement of a satisfactory second party.

Class of 1926 Loan Fund for Seniors.—This fund, the gift of the Class of 1926, amounting to over $1200, is loaned to seniors of good scholastic standing during the last semester of their senior year. Amount loaned is $50 per person, exceptional cases to be allowed $100.

Women's Loan Fund.—This fund was inaugurated by the American Association of University Women, University of Maine Branch, in 1925. It provides for loans to undergraduate women of the University who have successfully completed one or more years of university work, and have been found by the University to be thoroughly satisfactory in regard to character, scholarship, and general ability, and to be in genuine need. The fund amounts at present to $1789; and loans to one student shall not exceed $200 a year.

Mary S. Snow Memorial Fund.—Students and friends of Mary S. Snow, one-time superintendent of schools in Bangor, and later a leader in home economics education, have established as a tribute to her memory a loan fund to be used in helping earnest and deserving young women secure a home economics education at the University of Malne. The fund at present amounts to over $4000. Loans may be granted to young women of such character and scholarship as give promise that the education thus made possible will be of genuine value to the students and to society.

American Pulp and Paper Mill Superintendents' Association Fund.—This fund amounts to $2500. The income is to be used to improve instruction and aid investigations in pulp and paper chemistry and technology, to develop coöperation between pulp and paper mill superintendents and young technical graduates, or to be loaned to meritorious students pursuing the pulp and paper course. A report is to be made annually to the Association.

Drummond Fund.—This fund of $1000 was established in memory of Frank Hayden Drummond, of Bangor, by his widow and children. It is loaned to needy students of good character who have attained an average of C or its equivalent.

Carleton Orchard Fund.—This fund originated in the gift to the State of Maine by James A. Gregory of one interest-bearing first mortgage bond for $1000, the interest on which was to be used for the promotion of scientific orcharding in Maine. At first administered by the Maine Department of Agriculture, the income from this bond was transferred in 1925 to the College of Agriculture of the University "for the assistance of needy students who shall be residents of the State of Maine, majoring in horticulture at the said college of agriculture."

The Bangor Business and Professional Women's Loan Fund.—This fund, now amounting to $700, was established by the Business and Professional Women's Club of Bangor, Maine, for needy and deserving women students, preferably from Bangor and vicinity, who have been in attendance at least two years and who have maintained an average grade of "C" or better. Loans shall not exceed $250 per student.

General Loan Fund.—This fund, now amounting to $2600, was donated by unknown friends, students, and faculty of the University. The first donation was made in May, 1930, and has been increased at various periods since that time.

Kappa Psi Loan Fund.—This fund, amounting to $200, was donated by the Kappa Psi Sorority during the spring of 1933, to be used for the benefit of women students.

Esther Ayres Chapter, Daughters of American Revolution Loan Fund.—This fund, amounting to $200, is a gift of the Orono Chapter of the D.A.R. and is to be loaned to women students who are juniors or seniors.

Charles M. Payson Loan Fund.—This fund, amounting to $5000, was given by Mrs. Charles M. Payson, of Portland, Maine, in memory of her late husband. It is to be loaned to needy students under such conditions as may be established by the University administration.

The Bertha Joy Thompson Loan Fund, amounting to $10,000, was bequeathed, in trust, to the University of Maine by the late Mrs. Bertha Joy Thompson, of Ellsworth, Maine. The net income from the fund is to be used as a "Loan Fund" to be loaned to worthy, deserving and needy students of the University of Maine under such terms and conditions as the Board of Trustees may determine.

The Western Massachusetts Alumni Association Loan Fund.—The Western Massachusetts University of Maine Alumni Association established a loan fund in 1935 for the purpose of aiding worthy students from Western Massachusetts who are in need of financial assistance. The amount of the loan is limited to $50 annually.

Application for loans should first be made to the Dean of Women by women students and the Dean of Men by men students. Where requirements make necessary a different handling of loans, either of these officials will refer the request to the proper person.

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SCHOLARSHIPS AND PRIZES

Forms for making application for scholarships may be obtained from the Chairman of the Faculty Committee on Honors or from the Registrar's Office, and should be returned to the Chairman before March 1. Candidates may, if they wish, apply for particular scholarships. No student whose record is unsatisfactory will be considered eligible for any scholarship award. Unless otherwise indicated, all awards are made by the Committee on Honors, subject to the approval of the President.

Scholarships available for graduate students are described in the section of the Catalog dealing with graduate study.

THE MERRITT CALDWELL FERNALD SCHOLARSHIP, $150, established by the Trustees in 1923 and named in honor of the first acting president of the University, is awarded to that junior student in the University having the highest scholarship rank.[1]

THE JAMES STACY STEVENS SCHOLARSHIP, $150, established by the Trustees and named in honor of the first dean of the College of Arts and Sciences, is awarded to the highest ranking student, resident of Maine, in the junior class in that college, the winner of the Fernald Scholarship being excepted.[2]

THE HAROLD SHERBURNE BOARDMAN SCHOLARSHIP, $150, in Technology, in honor of the first dean of the College of Technology and the President of the University from 1926 to 1934, is awarded on the same terms as the foregoing.[2]

THE LEON STEPHEN MERRILL SCHOLARSHIP, $150, in Agriculture, in honor of the Dean of the College of Agriculture from 1911 to 1933, is awarded similarly to the foregoing.[2]

THE CHARLES DAVIDSON SCHOLARSHIP, $150, in the School of Education, in honor of the first professor of education in the University, is awarded as are the foregoing.[2]

THE UNIVERSITY SCHOLARSHIPS, fifteen, of $150 each, established by the Trustees in 1935, are awarded annually to students of high scholastic standing and intellectual promise whose general record is also satisfactory and who are in need of financial assistance. Preference is given to students residing in the State of Maine.

THE SECONDARY SCHOOL CONTEST SCHOLARSHIPS, eight, of $150 each, established by the Trustees in 1931, are awarded annually to the eight entering freshmen who as secondary school seniors have made the highest average rank in the State Senior Scholarship Contest sponsored by the School of

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[1] Formerly the Trustee Undergraduate Scholarship at large.

[2] Formerly the Trustee Undergraduate Scholarships in Arts, Technology, Agriculture, and Education respectively.

Education, except that only one award may be given to any school. The highest ranking student of the eight selected is awarded a tuition scholarship for four years, the second highest for three years, the third for two years, and the five next in order for one year each. Each scholarship is awarded for one semester and will be continued in the second semester upon evidence of satisfactory work in the University. Only students whose schools enter the Contest and compete according to the rules furnished every year by the University may take the tests.

THE HOVEY MEMORIAL SCHOLARSHIPS, made available by a fund of $5900, established in 1932 by the Stone and Webster Corporation in honor of the late Francis J. Hovey, are awarded to students in the College of Technology, on the basis of scholastic attainment, character, and general promise. A scholastic standing of at least 3.00 must be attained to be eligible, and must be maintained during tenure. Award is made by the Dean and the heads of departments in the College, subject to the approval of the President, with preference given to students residing in the State of Maine.

THE CHARLES H. HOOD FUND SCHOLARSHIPS, seven, of $200 each, are available annually to men and women students of the College of Agriculture whose intention is to promote farming as a life opportunity. They are awarded by a committee comprising the Dean of the College of Agriculture as chairman, the head of the Department of Animal Industry, and the Treasurer of the University, and are distributed as follows: Two sophomore and two junior scholarships are granted to students whose scholastic standing for the previous year places them in the upper half of their class; and three senior scholarships are granted to students whose scholastic standing for the previous year places them in the upper third of the class. The junior and senior scholarships are further restricted to students specializing in some phase of dairy industry promotion.

THE W. H. BOWKER SCHOLARSHIPS.—The American Agricultural Chemical Company has established two scholarships in honor of W. H. Bowker, one of the first technically trained agricultural college graduates to utilize agricultural research in the manufacture of commercial fertilizers. These scholarships provide $300 each to pay two years' tuition in the College of Agriculture. One scholarship is to be awarded to some boy now studying vocational agriculture in any high school or academy in Aroostook County, or in Patten Academy, Penobscot County. The second scholarship is to be awarded to some boy now studying vocational agriculture in any high school or academy in the state. Each scholarship is to be awarded by a committee comprising the Dean of the College of Agriculture, the Professor of Agricultural Education, and the teachers of vocational agriculture in the section involved.

The Normal School Scholarships, three, of $150 each, are awarded on a competitive basis to students entering as juniors in the School of Education to prepare for high-school teaching after two years' work in Maine normal schools. Those students are eligible who rank in the highest decile of their class in normal school, who plan to enter the secondary-school teaching field on the completion of two years' work in the University leading to the degree of Bachelor of Science in Education, and who are recommended by their principals as having personal qualities which give promise of success in that field.

The General Alumni Association Scholarship, $150, established by the Association in 1935, is awarded to a senior student who is son or daughter of a graduate or former student of the University, whose conduct and scholastic record are satisfactory, who has been prominent in extra-curricular activities, and who needs and merits financial aid. The award is made at the close of the junior year by a committee comprising the Chairman of the Committee on Honors and two alumni selected by the President of the General Alumni Association.

The William Emery Parker Scholarship, the income from a one-thousand dollar bond donated by Hosea B. Buck, Class of 1893, in memory of William Emery Parker, Class of 1912, is awarded annually to that male student of the sophomore or junior class who, in addition to being above the average rank scholastically, shows most clearly those qualities of manliness, honesty, and constructive effort which characterized the college career of the alumnus in whose memory the scholarship is given.

The Charles H. Payson Scholarships, $100 each, were established in 1935 through a gift of $20,000 made by Mrs. Charles H. Payson, of Portland, in memory of her late husband. These are awarded to students in the University whose homes are in Maine and whose high character, qualities of leadership, creditable academic record, and financial need make them worthy of scholarship aid, or to entering students of outstanding merit who without financial assistance could not attend the University.

The Bertha Joy Thompson Scholarship Fund, amounting to $15,000, bequeathed to the University of Maine in 1935 by the late Mrs. Bertha Joy Thompson, of Ellsworth, Maine, is to be invested as a permanent endowment and the net income is to be used for scholarships as the Board of Trustees of the University may determine.

The Women's Student Government Association Scholarship, $50, is awarded annually by the Women's Student Government Association to a deserving woman student who is in need of financial assistance and whose conduct and scholarship record are satisfactory. Applications must be submitted to the president of the Student Council by April 1. Award is made by the Committee on Honors on recommendation of the Dean of Women and the Student Council.

New York Alumni Association Scholarships, two, of $50 each, are annually offered by the New York Alumni Association for the encouragement of proficiency in written and oral expression.

Scholarship No. 1, established in 1905, is offered for excellence in debating by the faculty Committee on Honors, on recommendation of the Department of Public Speaking. In case the effort in debating does not justify the award in any year or years, the amount shall be accumulative.

Scholarship No. 2 is offered annually to an upperclassman in the College of Technology to encourage advancement and proficiency in English as equipment for later professional and civil life. The award, made by a committee of judges selected by the College of Technology and the Department of English, is based chiefly upon a competition in writing held in April, open to juniors and seniors who have satisfactorily completed Freshman English and a further elective course in English Literature, and have taken or are taking English 5 (6). Consideration is also given to the showing and advancement indicated by the student's grade in his courses in English.

The Kidder Scholarship, $30, endowed in 1890 by Frank E. Kidder, Ph.D., of Denver, Colorado, a graduate of the University in the Class of 1879, is awarded by the Committee on Honors, with the approval of the President, to a student whose rank excels in his junior year.

The Chicago Alumni Association Scholarship, $30, established in 1903, is awarded annually to a sophomore pursuing a regular curriculum whose deportment is satisfactory and who has attained the highest rank in his class during the freshman year.

The Pittsburgh Alumni Association Scholarship, $30, established in 1905, is awarded annually by the Pittsburgh Alumni Association to a member of the junior class in the College of Technology whose ability and needs justify the award. The selection is made by the President and the Dean and professors of the College of Technology.

The Joseph Rider Farrington Scholarship, the income from a one-thousand dollar bond, a gift of Arthur M., Edward H., Oliver C., Horace P., and Wallace R. Farrington, all graduates of the University of Maine and sons of Mr. and Mrs. Joseph Rider Farrington, is offered annually in honor of their parents, in the following order of preference: (a) Any direct descendant of Joseph Rider and Ellen Holyoke Farrington, or anyone whom three of such descendants may select; (b) Any student bearing the surname of Farrington or Holyoke; (c) The student in the junior class of the College of Agriculture who attains the highest rank in studies and deportment during the year of award and who shall make application for the scholarship.

The Stanley Plummer Scholarship, the income of one thousand dollars, the bequest of Colonel Stanley Plummer of Dexter, Maine, is awarded

annually to a needy and deserving student selected by the Committee on Honors. Students born in Dexter, Maine, shall have preference.

THE ELIZABETH ABBOTT BALENTINE SCHOLARSHIP, $75, endowed by the Gamma Chapter of Alpha Omicron Pi, is awarded by the Committee on Honors to a woman member of the Sophomore Class, on recommendation of the Chapter with the approval of the President, on a basis of scholarship and individual need.

THE CLASS OF 1905 SCHOLARSHIP, the income from a one thousand dollar bond, donated by members of the Class of 1905, is awarded to a man of the freshman class pursuing a regular curriculum, whose deportment is satisfactory, and who attains the highest rank in the mid-year examinations.

THE CARROL C. JONES SCHOLARSHIP, the net income of a fund of one thousand dollars bequeathed by Minnie E. Jones, of Solon, in memory of her son, Carrol C. Jones, of the Class of 1914, is awarded annually to the student who makes the greatest improvement in his college work during his or her freshman year.

THE OHIO ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1934 by the Ohio Alumni Association, is awarded annually to a student whose character, scholarship, and need justify the award.

THE BOSTON ALUMNI ASSOCIATION SCHOLARSHIPS, two, of $75 each, established in 1935, are awarded annually to any deserving student at the University, with preference given to male upperclassmen from Eastern Massachusetts.

THE LINCOLN COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to an upperclassman whose home is in Lincoln County on a basis of satisfactory academic record and conduct, qualities of leadership, and financial need.

THE NORTHERN AROOSTOOK ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to an upperclass student on a basis of satisfactory scholastic record and conduct, financial need, and qualities of leadership.

THE PENOBSCOT COUNTY ALUMNI ASSOCIATION SCHOLARSHIPS, two, of $50 each, are awarded by the President, the executive secretary of the General Alumni Association, and the Committee on Honors to two male students whose homes are in Penobscot County, who are found to be needy and deserving, and whose scholarship and conduct are satisfactory.

THE PHILADELPHIA ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded annually to some needy and deserving student, with preference given to the vicinity of Philadelphia.

THE RHODE ISLAND ALUMNI ASSOCIATION SCHOLARSHIP, $50, established in 1935, is awarded to a male student from Rhode Island or that portion of Massachusetts represented by the Association, whose personal and scholastic

record is satisfactory and who has been prominent in extra-curricular activities.

The Southern California Alumni Association Scholarship, $75, established in 1935, is awarded annually to some upperclass student whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who is in need of financial aid.

The Southern New Hampshire Alumni Association Scholarship, $75, established in 1935, is awarded to some needy and deserving student, with preference given to the locality represented by the Association.

The Waldo County Alumni Association Scholarship, $50, established in 1935, is awarded in the spring semester to a student from Waldo County, preferably a freshman, whose character and scholarship standing are high, and who needs financial assistance to continue in college. The award is made by the Committee on Honors, subject to the approval of the Executive Committee of the Association.

The Worcester County Alumni Association Scholarship, $50, established in 1935, is awarded annually to a worthy student from Worcester County, preferably an entering freshman.

The York County Alumni Association Scholarship, $50, established in 1935, is awarded to an upperclassman from York County whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who needs and merits financial aid.

The John M. Oak Scholarship, the income of a fund of $1500, was established in 1935 by the estate of Mr. Oak, who was a member of the Class of 1873 and a former trustee of the University, for the purpose of advancing the art of public speaking in the University.

Class of 1909 Fund.—The members of the Class of 1909, at their twenty-fifth anniversary reunion, presented to the University of Maine Foundation the sum of $1000, the income of which is to be used for such purposes as the Directors of the Foundation may determie. The specific purposes have not yet been decided.

The Chi Omega Sociology Prize, $25, is offered annually by the Chi Omega Sorority, in accordance with its national policy, to the woman student in the sophomore or junior class who secures the highest grade in the beginners' course in sociology. Her general deportment and interest in the study of sociology may also be considered in determining the award.

The Prize of the Class of 1873, the income of one thousand dollars, the gift of Russell W. Eaton, of Brunswick, a member of the Class of 1873, is awarded annually to that member of the sophomore class who is able to show the greatest improvement in mechanical drawing during the first two years of his college course. It is expected that candidates for this prize shall have had no training in mechanical drawing previous to entering the University.

The Alpha Omicron Pi Alumnae Prize, $10, given by the Bangor Alumnae Chapter of Alpha Omicron Pi, is awarded annually to the 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 with those of the spring semester, shall furnish the basis of award.

Sigma Mu Sigma Award, $25, is given annually by the honorary society Sigma Mu Sigma to a member of the current sophomore class who shall have completed a semester and a half of the introductory course in General Psychology, on a basis of proficiency, interest, and general promise in the subject. Nominations for the award shall be made to the president of the society by the instructors in the course when the spring midsemester grade are reported to the Registrar, and it becomes available upon the student's return to the University in the following semester.

The Pale Blue Key Award, $50, is given each year by the Pale Blue Key to some member of the freshman class who needs help, has shown promise in track athletics in his freshman year, and has maintained a satisfactory scholarship standing. The award shall be in the hands of a committee composed of the president of the Pale Blue Key, the coach of track athletics, and a member of the faculty to be chosen by the club, subject to the approval of the President. The winner will be given the award upon his return to the University in his sophomore year. Applications must be made in writing and sent to either the coach of track atheltics or the president of the Pale Blue Key before May 1.

The Henry L. Griffin Prize in English Composition, $10, in honor of the late Rev. Henry L. Griffin, of Bangor, is awarded by the Department of English for excellence in the freshman course in composition. The chief basis of the award is a competition in writing held during the month of April.

Franklin Danforth Prize, $15, the gift of the Hon. Edward F. Danforth, of Skowhegan, a graduate of the University of the Class of 1877, in memory of his father, Franklin Danforth, is awarded to that member of the senior class in the College of Agriculture who attains the highest standing throughout his curriculum.

Greek Culture Prize, $15, the gift of the Hon. Edward F. Danforth, of Skowhegan, a graduate of the University in the Class of 1877, is awarded annually to that senior who shall have given evidence of the best appreciation of the spirit of Greek culture. The award is made on recommendation of the Professor of Ancient Civilization.

The Spanish Club Prize, $10, is awarded annually by the Círculo Español for excellence in Elementary Spanish to a freshman student, on the basis of a competitive examination.

The Robert C. Hamlet Prize, $25, established in 1935, in accordance with the will of Mr. Hamlet, a graduate of the University in the Class of 1925, is awarded annually to that student in the University who shall have written the best original play during the year of award. The judges are the Dean of the College of Arts and Sciences, the head of the Department of English, and the president of the Maine Masque.

The Class of 1908 Commencement Cup, donated by the Class of 1908 alumni, is awarded to that graduate class, the largest percentage of whose members register during Commencement Week.

The Fraternity Scholarship Cup, presented by the 1910 Senior Skulls Society, was awarded in turn at each Commencement to that fraternity having the highest standard in scholarship for the preceding calendar year. The cup was to become the permanent property of the fraternity to which it should be awarded the greatest number of times through an eleven-year period. The award was renewed in 1921 for an eleven-year period by the 1921 Skulls, and in 1932 by the 1932 Skulls. The first cup was awarded in 1921 to Phi Eta Kappa and the second in 1932 to Lambda Chi Alpha.

The Pan-Hellenic Sorority Cup, presented by the Pan-Hellenic Council, is awarded in turn at each Commencement to the sorority having the highest scholarship standing, on terms similar to those of the Fraternity Scholarship Cup. The first cup was awarded in 1933 to Delta Zeta.

The Freshman Scholarship Cup is awarded by the University each spring to that secondary school in Maine having three or more of its graduates in full standing in the freshman class, whose freshman representatives as a group shall have attained the highest scholastic standing for the fall semester preceding. The award was made first in 1931, to Fort Kent High School, in 1932 to Boothbay Harbor High School, in 1933 to Deering High School, in 1934 to South Portland High School, and in 1935 to Deering High School.

The Washington Alumni Association Watch is presented annually by the Alumni Association of Washington, D. C., to the male member of the graduating class who, in the opinion of the students and the University administration, has done the most for the University during his curriculum. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

Portland Alumnae Association Watch is presented annually by the Portland Club of University of Maine Women to the woman member of the graduating class who, in the opinion of the students and the University ad-

ministration, has done the most for the University during her curriculum. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

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

The Charles Rice Cup was presented in 1921 by the Kappa Sigma Fraternity in honor of Charles Anthony Rice, of the Class of 1917, who was killed in service, to be held for one year by the team winning the Intramural Track Championship.

The Intramural Plaques are presented each year by the Intramural Athletic Association to the fraternity making the best showing in each major intramural sport, and a special plaque is given to that fraternity which makes the best performance in all the sports.

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 work of four years in the Colleges of Agriculture or Technology according to the requirements prescribed by those Colleges and the University.

The degree of Bachelor of Arts in Education (B.A. in Ed.), or Bachelor of Science in Education (B.S. in Ed.) is conferred upon students who complete the prescribed work in the School of Education.

A minimum residence of one year is required for the attainment of any bachelor's degree. This regulation refers to the senior year. No student will be recommended for a degree who, having been reported to the Committee on Student's Use of English of his college, shall have failed to satisfy the requirements of the committtee.

The degrees of Master of Arts (M.A.), Master of Science (M.S.), Master of Arts in Education (M.A. in Ed.), and Master of Science in Education (M.S. in Ed.) are granted for one year's graduate work completed with distinction.

Degrees with Distinction

Degrees with distinction are conferred at Commencement for the following attainments in rank:

Seniors in the Colleges of Agriculture and Technology having an average grade of 3.50 or above are graduated with highest distinction, 3.25 to 3.49 with high distinction, and 3.00 to 3.24 with distinction.

Seniors in the College ot Arts and Sciences and the School of Education having an average grade of 3.75 or above are graduated with highest distinction, 3.50 to 3.74 with high distinction, and 3.25 to 3.49 with distinction.

The average grade is based on the work of the first three and one-half years, which must include three years of resident study at the University of Maine for students in the Colleges of Agriculture, Arts and Sciences, and Technology and two years in the School of Education for students who have transferred from other institutions. Candidates in the Colleges of Agriculture, Arts and Sciences, and Technology must have completed seven-eighths and in the School of Education three-fourths of the required hours at the end of the fall semester of the senior year. Candidates must take their senior year at the University of Maine.

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.*

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of seventeen hours in the College of Arts and Sciences, from a minimum of fourteen hours to a maximum of eighteen hours in the School of Education, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Technology and the College of Agriculture except that in the Department of Home Economics the limits are fourteen hours and nineteen hours. 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.

Detailed information about the regulations affecting students is contained in a pamphlet which may be obtained at the office of the Registrar.

Use of Automobiles by Freshmen

Freshmen are not allowed to bring automobiles or motorcycles upon the campus except those who use them to commute daily from their homes.

Organization of the University

The University is divided for purposes of administration by the Trustees into two divisions, the academic and the financial. The former is divided into the Colleges of Agriculture, Arts and Sciences, and Technology, the School of Education, and the Maine Agricultural Experiment Station. To the College of Agriculture belongs the Agricultural Extension Service. The policies of the University as a unit are determined by the Board of Trustees, the administrative officers, and the general faculty, but each division regulates those affairs which concern itself alone. In addition to the faculties of the colleges there are the Faculty of Graduate Study and the Faculty of the Summer Session.

College of Agriculture

Curricula in Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Husbandry, Bacteriology, Biological and Agricultural Chemistry, Botany, Dairy Husbandry, Dairy Technology, Entomology, Forestry, Wild Life Conservation, Home Economics, Horticulture, and Poultry Husbandry.

Two-Year Course in Agriculture.

Short Courses in Agriculture.

Farm and Home Week.

Extension Lecture Courses.

College of Arts and Sciences

Major subjects may be selected according to definite departments (Chemistry, Classics, Economics and Sociology, English, German, History and Government, Mathematics and Astronomy, Philosophy, Physics, Psychology, Public Speaking, Romance Languages, and Zoology) or according to definite areas of pre-professional interest such as medicine, law, social work, business, politics, and journalism.

School of Education

Professional training is offered for superintendents, supervisors and principals, and teachers of academic subjects in the secondary schools. The degrees of Master of Arts in Education and Master of Science in Education are offered.

College of Technology

Curricula in Chemical Engineering, Chemistry, Civil Engineering, Electrical Engineering, General Engineering, Mechanical Engineering, and Pulp and Paper Technology.

Faculty of Graduate Study

Courses leading to the degrees of Master of Arts and Master of Science have been organized in a considerable number of departments.

Maine Agricultural Experiment Station

Offices and principal laboratories at Orono; Highmoor Farm at Monmouth; Aroostook Farm at Presque Isle.

Summer Session

A session of six weeks is maintained for teachers and college students. Work is offered at present in sixteen departments.

College of Agriculture

FACULTY OF INSTRUCTION

Arthur Lowell Deering, B.S., Sc.D., *Dean*
Lamert Seymour Corbett, M.S., *Professor of Animal Industry*
Herbert Staples Hill, A.B., *Professor of Agricultural Education*
Charles Henry Merchant, Ph.D., *Professor of Agricultural Economics and Farm Management*
James Howard Waring, Ph.D., *Professor of Horticulture*
Pearl Stuart Greene, A.M., *Professor of Home Economics*
Ferdinand Henry Steinmetz, Ph.D., *Professor of Botany and Entomology*
Maurice Daniel Jones, M.S., *Professor of Agricultural Economics and Farm Management*
Elmer Reeve Hitchner, Ph.D., *Professor of Bacteriology*
Llewellyn Morse Dorsey, M.S., *Professor of Dairy Husbandry*
Harry Woodbury Smith, Ph.D., *Professor of Biological and Agricultural Chemistry*
Marion Deyoe Sweetman, Ph.D., *Professor of Home Economics*
Dwight Burgess Demeritt, M.F., *Professor of Forestry*
Joseph Anthony Chucka, Ph.D., *Professor of Agronomy and Agricultural Engineering*
John Robert Smyth, M.S., *Associate Professor of Poultry Husbandry*
Allen Wright Goodspeed, M.F., *Associate Professor of Forestry*
George Farrington Dow, M.S., *Associate Professor of Agricultural Economics and Farm Management*
*Chauncey Wallace Lord Chapman, M.S., *Assistant Professor of Forestry*
Leigh Philbrook Gardner, M.S., *Assistant Professor of Poultry Husbandry*
Harold Clayton Swift, M.S., *Assistant Professor of Agronomy*
Charles Orville Dirks, Ph.D., *Assistant Professor of Entomology*
George Peter Steinbauer, Ph.D., *Assistant Professor of Botany*
Marguerite Ruth Musgrave, A.M., *Assistant Professor of Home Economics*
Monroe Edward Freeman, Ph.D., *Assistant Professor of Biological and Agricultural Chemistry*
Robert Irving Ashman, M.F., *Assistant Professor of Forestry*

* On leave of absence, 1935-1936.

Howe Wiggin Hall, M.S., *Assistant Professor of Animal Husbandry*
Fay Hyland, M.S., *Assistant Professor of Botany*
John Franklin Witter, D.V.M., *Assistant Professor of Animal Pathology*
Stephen Martin Raleigh, Ph.D., *Assistant Professor of Agronomy*
*Roger Clapp, M.S., *Assistant Professor of Horticulture*
Richard McVay Riley, M.S., *Assistant Professor of Horticulture*
Winthrop Charles Libby, M.S., *Assistant Professor of Agronomy*
Eleanor Haile, M.S., *Assistant Professor of Home Economics*
Evlon Joy Niederfrank, M.S., *Assistant Professor of Agricultural Economics and Farm Management*
Beulah Osgood Wells, A.M., *Instructor in Home Economics*
Gladys Marie Gould, B.S., *Part-Time Instructor in Home Economics in Charge of Student Teaching*
Mabel Lancaster Stewart, B.S., *Instructor in Home Economics*
Fred Perley Loring, B.S., *Director of Short Courses*
Gregory Baker, B.S., *Instructor in Forestry*
Matthew Edward Highlands, M.S., *Instructor in Bacteriology*
Wesley Parkhurst Judkins, B.S., *Instructor in Horticulture*
Garnet Edward Davis, B.S., *Graduate Fellow in Dairy Husbandry*
Arnold Evans Hook, B.S., *Graduate Fellow in Bacteriology*
Clifford Egerton Lloyd, B.S., *Graduate Fellow in Botany and Entomology*

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agricultural Economics and Farm Management, Agricultural Education, Agronomy, Animal Industry, Bacteriology, Biological and Agricultural Chemistry, Botany and Entomology, Forestry, Home Economics, Horticulture, Short Courses, and Extension Service. This college offers to young men and women an opportunity to secure a broad education and thorough training in the sciences and technics relating to the major course of study they may elect to pursue. It aims to prepare them for lives of usefulness as citizens of the State and for effective service in their chosen vocations or professions.

More specific and detailed information concerning the purposes of each major course of study offered by the College will be found in the description of the various curricula.

The four-year curricula in the College of Agriculture require the completion of 147 credit hours with the exception of those of Forestry and Home Economics which comprise 153 and 128 hours respectively. In addition each

* On leave of absence, 1935-1936.

student must accumulate a total of grade points equal to the number of hours required for graduation in the curriculum chosen. These grade points are computed by multiplying each hour of the letter grade by a factor as follows: A by 3, B by 2, C by 1, and D by 0. Upon the completion of the required curriculum, with the necessary number of grade points, the student will be recommended for the degree of Bachelor of Science (B.S.).

On entering either a four-year curriculum in Agriculture or the Two-Year Agricultural Course 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. Before receiving their degrees or certificates 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 majoring in Botany, Bacteriology, Biological and Agricultural Chemistry, Entomology, Forestry, or Home Economics.

Physical training is required in each semester of the first two years. No credit toward a degree is allowed for this work. Physical training is not required in the two-year agricultural curriculum.

Students in agriculture who contemplate entering experiment station chemical work should elect the courses offered by the Department of Biological and Agricultural Chemistry covering the qualitative and quantitative chemical analysis of feeds, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

Students desiring to specialize in the botanical or entomological aspects of Forestry may offer freshman and sophomore years in Forestry as equivalent to the first two years' work in Agriculture and register in the curriculum in Botany or Entomology during the junior or 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 a credit of one hour; a dagger (†) indicates that two hours of actual work are required to obtain a credit of one hour.

REGULAR CURRICULA AND COURSES OF INSTRUCTION

The courses of instruction are organized as follows:

1. Four-Year Major Agriculture Curricula:
   Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Husbandry, Bacteriology, Biological and Agricultural Chemistry, Botany, Dairy

Husbandry, Dairy Technology, Entomology, Horticulture, and Poultry Husbandry.

2. Four-Year Forestry Curricula:
   Forestry, Wild Life Conservation
3. Four-Year Home Economics Curricula:
   Vocational Sequences
   1. Home Economics Education
   2. Extension-Home Demonstration or 4-H Club Work
   3. Foods and Nutrition
   4. Textiles and Clothing
   5. Development and Training
   6. Special Sequences: Home Economics Journalism, Household Equipment, Social Service, and others formulated to fit individual cases
4. The Two-Year Course in Agriculture
5. Short Courses in Agriculture
6. Farm and Home Week
7. Extension Lecture Courses

THE FOUR-YEAR AGRICULTURAL CURRICULA

The four-year agricultural curricula are designed for those who wish to engage in the business of farming; for those contemplating the special fields of agricultural economics and farm management, agronomy and agricultural engineering, animal husbandry, bacteriology, biological and agricultural chemistry, botany, dairy husbandry, dairy technology, entomology, horticulture, and poultry husbandry; for those desiring to enter Federal or State agricultural research work; for those planning to prepare themselves for the teaching of agriculture and the allied sciences in secondary schools and colleges; and for those seeking to fit themselves to become agricultural extension agents or specialists in any of the various phases of agriculture. In addition to the specific fields mentioned above there are many other opportunities open to the college trained man in the agricultural and associated industries.

Certain studies are fundamental to all work in agricultural lines, and for this reason as many of these subjects as possible are offered in the first year, during which the student is necessarily given no choice of subjects. Beginning with the sophomore year each student should start specialization in one of the following major curricula: Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Husbandry, Bacteriology, Biological and Agricultural Chemistry, Botany, Dairy Husbandry, Dairy Technology, Entomology, Horticul-

ture, or Poultry Husbandry; and at the beginning of the junior year he must establish a definite major course of study to be followed until the requirements for graduation shall have been satisfied.

It should be noted that each major curriculum allows a student a number of elective hours. The elective subjects are selected with the advice of the major instructor. In view of the fact that the economic aspects of the agricultural industry have become so vitally important, it is suggested that the student elect subjects in the field of agricultural economics in addition to those which may be required in his major curriculum; particularly is it suggested that he obtain as much information as he possibly can on the marketing of agricultural products. In the case of those students majoring in Agricultural Economics opportunity is offered in the way of elective hours to obtain training in such of the agricultural production subjects as may be desired to furnish a basic production background.

Honor Course in Agriculture

Any student who has obtained an average grade of at least 3.25 in the courses offered by his major department during the first three years of his college course may register for honor courses in his major department or in an allied department during his senior year providing his average grade in such allied department is at least 3.25 in all subjects taken in that department. Such courses may be substituted for any elective course, the total number of credit hours not to exceed four. Such honor courses shall be designed especially to promote initiative and organizing ability in the student. The scope of such courses shall constitute a broad survey in the field selected for study and shall in no way be substituted for a thesis. The general plan shall be worked out by the head of the department in which the course is taken, and must be approved by the head of the student's major department.

Curriculum for the Freshman Year for All Students Taking Four-Year Curricula in Agriculture

Fall Semester

No.		Subject	Cr. Hours
Ag	11	Field Crops, 2 †2	3
Ch	1	General Chemistry, 2 †4	4
Eh	1	Composition	3
Mt	1	Military, †3	1½
Ph	1	General Poultry Husbandry, 2 †2	3
Zo	1	General Zoology, 2 †4	4
Pt	1	Physical Education, 2	0
			18½

Spring Semester

No.		Subject	Cr. Hours
An	2	General Animal Husbandry, 2 †2	3
Bt	2	General Botany, 2 †4	4
Ch	2	General Chemistry, 2 †4	4
Eh	2	Composition	3
Ht	2	General Horticulture, 2 †2	3
Mt	2	Military, †3	1½
Pt	2	Physical Education, 2	0
			18½

Curriculum for Students Specializing in Agricultural Economics and Farm Management

The curriculum in Agricultural Economics and Farm Management is planned to give the student a broad, comprehensive training in the economic principles of the production and marketing of agricultural products. The training in crops and livestock production, provided in this curriculum, is essential for a clear and proper understanding of the application of the principles of agricultural economics. The student may choose from the elective hours a sufficient amount of work in another department to prepare himself for a position in Agricultural Economics and Farm Management dealing with a particular group of agricultural products. The student upon completing this curriculum of study may engage in some phase of one of the main divisions in the field, such as: agricultural economics, farm management, agricultural marketing including coöperative marketing, agricultural statistics, or agricultural finance. Any one of these divisions offers many opportunities to the graduate.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3
An 3	Care, Feed, Mgt. of Live Stock, 3 †2	4
Bt 45	General Genetics	3
Dh 1	General Dairying, 2 †2	3
Es 1a	Principles of Economics	3
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
		18

Spring Semester

No.	Subject	Cr. Hours
*Ag 14	Sweet Corn, Beans, and Peas, 1 †2	2
	or	
*Ag 16	Forage and Pasture Crops, 1 †2	
Bc 8	Agricultural Chemistry	2
Fm 48	Agricultural Economics	3
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
	Elective	10
		19

JUNIOR YEAR

No.	Subject	Cr. Hours
*Ag 15	Potato Production, 2 †2	3
By 3	Bacteriology	2
Eh 5	Technical Composition	2
Fm 73	Adv. Agr. Economics	3
Fm 75	Agricultural Statistics, 1 *3	2
Fm 79	Coöperative Marketing	2
	Elective	8 or 5
		19

No.	Subject	Cr. Hours
Fm 52	Farm Accounting, 1 *6	3
Fm 62	Agricultural Business Accounting, 2 *3	
Fm 76	Agr. Marketing	3
	Elective	12
		18

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Fm 77	Agricultural Finance	2	Fm 74	Farm Management, 3 *3	4
Fm 81	Current Economic Problems	1	Fm 82	Current Economic Problems	1
Fm 83	Thesis	3	Fm 84	Thesis	3
Fm 87	Agricultural Prices	2	†	Marketing	2
	Marketing	2		Elective	8 or 10
	Elective	8			
		18			18

* Only one course required (Ag 14, 15 or 16).
† Not required if taken in fall.

Curriculum for Students Specializing in Agricultural Education

In recent years there has grown a need in this state and a majority of the other states for young men especially trained to conduct agricultural courses in secondary schools. The Federal Government, recognizing the importance of teaching agriculture in secondary schools, has made it possible, through the Smith-Hughes Act, for school boards to obtain Federal aid in this work. In order to receive this Federal aid the teacher employed must have been trained at an agricultural college following a specific agricultural education curriculum or teacher-training course, as it is called. There are two such teacher-training curricula in the College of Agriculture. When the requirements of either one have been met, the graduate may become a candidate for appointment under the provisions of the Smith-Hughes Act as a teacher of agricultural subjects in a secondary school. It is a wise policy in any event for a student contemplating a career of teaching to follow the major agricultural teacher-training curriculum given below. Those students wishing to specialize in other major curricula, but at the same time elect enough of the teacher-training curriculum to render themselves eligible to Smith-Hughes teaching positions, must take all of the courses in Agricultural Education (with the exception of Course 4), and in addition should elect Agronomy 34, Farm Shop.

Students who minor in Agricultural Education are urged to elect as many as possible of such of the following subjects as may not have been required of them in their major curricula. A start should be made as early

as the sophomore year. Secondary-school teachers of agriculture have to teach these subjects, and a teacher who has not studied them works under a handicap. These subjects are: Agronomy 6, Soils and Fertilizers; Agronomy 15, Potato Production; Agronomy 16, Forage and Pasture Crops; Agronomy 30, Agricultural Engineering; Agronomy 35, Drainage and Land Reclamation; Agronomy 36, Farm Machinery and Power; Animal Husbandry 3, Care, Feed, and Management of Live Stock; Dairy Husbandry 1, General Dairying; Farm Management 74; and Forestry 20.

Students who elect either of the teacher-training courses must have had at least two years of practical farm work since their fourteenth birthdays. One of these years must include 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.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3
An 3	Care, Feed, Mgt. of Live Stock, 3 †2	4
Bc 1	Organic Chemistry, 2 †2	3
En 21	Gen'l Entomology, 2 †4	4
Py 1	General Psychology, 2 †2	3
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
		19

Spring Semester

No.	Subject	Cr. Hours
Bc 2	Biochemistry, 3 †4	5
Bc 8	Agricultural Chemistry	2
Fm 48	Agricultural Economics	3
Fy 20	Woodlot Forestry	2
Py 2	General Psychology, 2 †2	3
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
	Elective	2
		19

JUNIOR YEAR

No.	Subject	Cr. Hours
Ae 3	Special Methods in Teaching Agriculture	2
An 5	Anatomy of Domestic Animals, 2 †2	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Dh 1	General Dairying, 2 †2	3
Eh 5	Technical Composition	2
	Elective	4
		19

No.	Subject	Cr. Hours
Ae 6	Special Methods in Teaching Agriculture	2
Ag 16	Forage and Pasture Crops, 1 †2	2
Ag 30	Agricultural Engineering, 2 *3	3
Ag 34	Farm Shop, †4	2
Ag 36	Farm Machinery and Power, 2 *3	3
An 6	Physiology of Domestic Animals	3
Fm 76	Agricultural Marketing	3
	Elective	2
		20

SENIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
Ae 5	Supervised Farm Practice	2
Ae 7	Lesson Planning	2
Ag 15	Potato Production, 2 †2	3
Ag 35	Drainage and Land Reclamation, 2 *3	3
An 7	Animal Hygiene	2
Fm 73	Advanced Agr. Economics	3
	Elective	3
		18

Spring Semester

No.	Subject	Cr. Hours
Ae 4	Practice Teaching	4
Ae 8	Teaching Farm Mechanics	2
Ag 6	Soils and Fertilizers	2
Fm 52	Farm Accounting, 1 *6	3
Fm 74	Farm Management, 3 *3	4
		15

Curriculum for Students Specializing in Agronomy and Agricultural Engineering

Agronomy in a large sense is a study of the principles underlying modern methods of crop production, plant breeding, adaptation and care of the soil, the source and use of fertilizer materials, the management of the farm, and

various phases of agricultural engineering. This curriculum provides a well-rounded training in these subjects, and presents opportunity also for elective studies in stock raising, fruit and vegetable growing, economics, botany, zoology, bacteriology, and kindred subjects.

The graduate having followed this curriculum will find numerous fields of activity open to him; the more common of which are farming for himself, farm management positions, agricultural extension work, experiment-station investigational work, agricultural teaching, and opportunities in the various fertilizer and agricultural machinery industries.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3
Ag 5	Soil Formation, Erosion and Conservation	3
An 3	Care, Feed, Mgt. of Live Stock, 3 †2	4
Bc 1	Organic Chemistry, 2 †2	3
En 21	Gen'l Entomology, 2 †4	4
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
		19

Spring Semester

No.	Subject	Cr. Hours
Ag 16	Forage and Pasture Crops, 1 †2	2
Bc 2	Biochemistry, 3 †4	5
Bc 8	Agricultural Chemistry	2
Fm 48	Agricultural Economics	3
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
	Elective	5
		19

JUNIOR YEAR

No.	Subject	Cr. Hours
Ag 15	Potato Production, 2 †2	3
Ag 81	Seminar	1
Bt 53	Plant Physiology, 2 †4	4
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Eh 5	Technical Composition	2
	Elective	3
		18

No.	Subject	Cr. Hours
Ag 6	Soils and Fertilizers	2
Ag 30	Agricultural Engineering, 2 *3	3
Ag 82	Seminar	1
Bt 30	Plant Ecology, 1 †2	2
Bt 56	Plant Pathology, 2 †4	4
Fm 76	Agr. Marketing	3
	Elective	3
		18

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 81	Seminar	1	Ag 82	Seminar	1
Bt 45	General Genetics	3	Fm 74	Farm Management, 3 *3.	4
By 55	Bacteriology (Soil), 1 †4	3		Elective	13
	Elective	11			
		18			18

Curricula for Students Specializing in Animal Husbandry, Dairy Husbandry, Dairy Technology, or Poultry Husbandry

SOPHOMORE YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3	Ag 16	Forage and Pasture Crops, 1 †2	2
An 3	Care, Feed, Mgt. of Live Stock, 3 †2	4	Bc 2	Biochemistry, 3 †4	5
Bc 1	Organic Chemistry, 2 †2	3	Fm 48	Agricultural Economics	3
Dh 1	General Dairying, 2 †2	3	Mt 4	Military, †3	2
En 21	Gen'l Entomology, 2 †4	4	Pt 4	Physical Education, 2	0
Mt 3	Military, †3	2		Elective	7
Pt 3	Physical Education, 2	0			
		19			19

ANIMAL HUSBANDRY

The curriculum in Animal Husbandry is so arranged that the student receives a comprehensive training in animal breeding, feeding, and management, consideration being given to the four chief groups of farm animals, cattle, horses, swine, and sheep. Because of the importance of crops to the maintenance of farm animals, this curriculum embraces subjects relating to crop production and farm management. The student on completion of this curriculum may engage in the business of animal breeding, furthering the promotion of pure bred livestock utilization; he may enter special phases of animal industry, such as Federal extension, control and investigational lines;

he may become the superintendent of an animal breeding establishment; he may engage in college or university teaching of animal husbandry; or he may enter into any one of the great allied industries of animal industry, such as the meat packing business or the commercial feed business. The training he has received has furnished him with the necessary fundamental equipment to enable him to succeed.

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
An 5	Anatomy of Domestic Animals, 2 †2	3
Bc 9	Animal Biochemistry	2
Bt 45	General Genetics	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Eh 5	Technical Composition	2
	Elective	3
		18

Spring Semester

No.	Subject	Cr. Hours
An 6	Physiology of Domestic Animals	3
An 42	Adv. Live Stock Judging and Mgt., †2	1
An 44	Adv. Live Stock Feeding	2
By 52	Bacteriology, 1 †4	3
	Elective	9
		18

SENIOR YEAR

No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3
An 7	Animal Hygiene	2
An 55	Animal Nutrition	2
An 63	Seminar	1
	Elective	10
		18

No.	Subject	Cr. Hours
Ag 6	Soils and Fertilizers	2
Ag 36	Farm Machinery and Power, 2 *3	3
An 8	Animal Pathology	2
An 60	Adv. Animal Breeding, 1 †2	2
An 64	Seminar	1
Fm 52	Farm Accounting, 1 *6	3
	Elective	5
		18

DAIRY HUSBANDRY AND DAIRY TECHNOLOGY

These curricula are more specialized than that for Animal Husbandry in that dairy production and dairy manufactures are dealt with more specifi-

cally. The student pursuing one or the other of these curricula prepares himself to follow the business of dairy farming from the standpoint of efficient dairy-cattle breeding and efficient milk production, or some other phase of the dairy industry such as the market-milk business, butter manufacturing, cheese manufacturing, condensed and powdered milk industry, and ice-cream manufacturing, each of which is constantly adding to its personnel young men who have received training similar to that offered in the Dairy Husbandry and Dairy Technology curricula. In addition to the foregoing there are many opportunities to follow special lines of endeavor, Federal, state, and commercial, all of which require specialized training in dairy production and dairy manufactures.

DAIRY HUSBANDRY

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
An 5	Anatomy of Domestic Animals, 2 †2	3
Bc 9	Animal Biochemistry	2
Bt 45	General Genetics	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Dh 5	Market Milk, 3 †2	4
Eh 5	Technical Composition	2
		19

Spring Semester

No.	Subject	Cr. Hours
An 6	Physiology of Domestic Animals	3
An 42	Adv. Live Stock Judging and Mgt., †2	1
An 44	Adv. Live Stock Feeding	2
By 52	Bacteriology, 1 †4	3
Dh 2	Butter Making, 1 †4	3
	Elective	2
		17

SENIOR YEAR

No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3
An 7	Animal Hygiene	2
An 55	Animal Nutrition	2
An 63	Seminar	1
Dh 3	Cheese Making, 2 *6	4
	Elective	6
		18

No.	Subject	Cr. Hours
Ag 6	Soils and Fertilizers	2
Ag 36	Farm Machinery and Power, 2 *3	3
An 8	Animal Pathology	2
An 60	Adv. Animal Breeding, 1 †2	2
An 64	Seminar	1
By 54	Bacteriology (Dairy), 1 †4	3
Fm 52	Farm Accounting, 1 *6	3
	Elective	2
		18

DAIRY TECHNOLOGY

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Dh 5	Market Milk, 3 †2	4
Eh 5	Technical Composition	2
	Elective	7
		18

Spring Semester

No.	Subject	Cr. Hours
By 54	Bacteriology (Dairy), 1 †4	3
Dh 2	Butter Making, 1 †4	3
Dh 4	Condensed Milk, 2 *3	3
Dh 6	Dairy Products Judging, †2	1
Fm 76	Agricultural Marketing	3
	Elective	5
		18

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Dh 3	Cheese Making, 2 *6	4	Dh 58	Ice Cream Making, 2 †4	4
Dh 51	Dairy Technology	2	Dh 62	Dairy Tech. Seminar	1
Dh 55	Dairy Refrigeration	2	Dh 64	Adv. Dairy Products Control, †4	2
Dh 61	Dairy Tech. Seminar	1	Dh 66	Dairy Machinery, †4	2
Dh 63	Adv. Dairy Products Testing, †2	1	Fm 62	Agricultural Business Accounting, 2 *3	3
Fm 85	Agr. Marketing (Dairy & Poultry Products)	2		Elective	6
	Elective	6			
		18			18

POULTRY HUSBANDRY

The poultry industry of the United States has come to be recognized as one of the highest-ranking agricultural industries and while it relies for its vastness on the widespread farm flock, nevertheless it offers abundant opportunities to men possessing special training in poultry breeding, feeding, and management. Commercial poultry raising calls for a specialized training in poultry husbandry and is becoming a business of large proportions. Many openings also occur in poultry extension work, either Federal or state, and also in the poultry supplies business. The curriculum in Poultry Husbandry furnishes the necessary training for the student contemplating entrance into the fast-growing poultry industry.

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
An 5	Anatomy of Domestic Animals, 2 †2	3
Bc 9	Animal Biochemistry	2
Bt 45	General Genetics	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Eh 5	Technical Composition	2
Ph 3	Exhibition and Production Judging, 1 †2	2
	Elective	1
		18

Spring Semester

No.	Subject	Cr. Hours
An 6	Physiology of Domestic Animals	3
By 52	Bacteriology, 1 †4	3
Fm 76	Agricultural Marketing	3
Ph 2	Poultry Breeding	2
	Elective	7
		18

SENIOR YEAR

No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3
Fm 85	Agricultural Marketing	2
Ph 5	Poultry Feeding	2
Ph 7	Poultry Literature	2
	Elective	9
		18

No.	Subject	Cr. Hours
Ag 6	Soils and Fertilizers	2
Fm 52	Farm Accounting, 1 *6	3
Ph 4	Incubation and Brooding, 2 †2	3
Ph 6	Poultry Farm Management, 1 †2	2
Ph 8	Poultry Diseases	2
	Elective	6
		18

Curriculum for Students Specializing in Bacteriology

This curriculum is designed primarily for those students who desire to fit themselves for laboratory technicians or for research in the field of general or applied bacteriology. Stress is placed not only upon the agricultural phases of bacteriology, but also upon the sanitary and technical aspects. Students interested in bacteriology as applied to agriculture will take the regular freshman curriculum in agriculture; others will be guided by the freshman curriculum as outlined below. Two years of German or its equivalent are required.

FRESHMAN YEAR

Fall Semester				*Spring Semester*			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ch	1	General Chemistry, 2 †4	4	Ch	2	General Chemistry, 2 †4	4
Eh	1	Composition	3	Bt	2	General Botany, 2 †4	4
Gm	1	1st Year German	5	Eh	2	Composition	3
Mt	1	Military, †3	1½	Gm	2	1st Year German	5
Zo	1	General Zoology, 2 †4	4	Mt	2	Military, †3	1½
Pt	1	Physical Education, 2	0	Pt	2	Physical Education, 2	0
		Elective	1			Elective	1
			18½				18½

SOPHOMORE YEAR

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	1	Soils, 2 *3	3	Bc	2	Biochemistry, 3 †4	5
Bc	1	Organic Chemistry, 2 †2	3	Ch	40	Quantitative Analysis, 1 †2, *6	4
Ch	31	Qualitative Analysis, 2 †2, *6	5	Gm	4	Short Story	3
Gm	3	Short Story	3	Mt	4	Military, †3	2
Mt	3	Military, †3	2	Pt	4	Physical Education, 2	0
Pt	3	Physical Education, 2	0			Elective	6
		Elective	4				
			20				20

JUNIOR YEAR

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Bc	51	Biochemistry	3	Bc	64	Biochemical Laboratory Methods, †6	3
Bt	53	Plant Physiology, 2 †4	4	By	52	Bacteriology, 1 †4	3
By	1	Bacteriology, †6	3	By	54	Bacteriology (Dairy), 1 †4	3
By	3	Bacteriology	2			Elective	8
Dh	1	General Dairying, 2 †2 (3) or Elective (3)	3				
		Elective	3				
			19				17

SENIOR YEAR

Fall Semester				*Spring Semester*			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Bc	57	Biological Colloids	3	By	62	Seminar	1
By	55	Bacteriology (Soil), 1 †4	3	By	102	Problems in Bacteriology, †4 to †8	2 to 4
By	61	Seminar	1	Ch	72	Physical Chemistry, 3 †4	5
By	101	Problems in Bacteriology, †4 to †8	2 to 4			Elective	7 to 9
Ch	71	Physical Chemistry, 3 †4	5				
		Elective	1 to 3				
			17				17

Curriculum for Students Specializing in Biological and Agricultural Chemistry

The curriculum in Biological and Agricultural Chemistry is designed to give the student an opportunity to specialize in chemistry of plant and animal life. With proper choice of electives under the direction of the major instructor students may also pursue special work in agricultural chemistry, particularly in chemistry of the soil and fertilizers.

SOPHOMORE YEAR

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	1	Soils, 2 *3	3	Bc	2	Biochemistry, 3 †4	5
Bc	1	Organic Chemistry, 2 †2	3	Ch	40	Quantitative Analysis, 1 †2, *6	4
Ch	31	Qualitative Analysis, 2 †2, *6	5	Gm	2	1st Year German	5
Gm	1	1st Year German	5	Mt	4	Military, †3	2
Mt	3	Military, †3	2	Pt	4	Physical Education, 2	0
Pt	3	Physical Education, 2	0			Elective	3
			18				19

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 9	Animal Biochemistry	2	Bc 64	Biochemical Laboratory Methods, †6	3
By 1	Bacteriology, †6	3	By 52	Bacteriology, 1 †4	3
By 3	Bacteriology	2	Ch 72	Physical Chemistry, 3 †4	5
Ch 71	Physical Chemistry, 3 †4	5	Gm 16	Scientific German 2 / Elective 1	3
Gm 3	Short Story	3		Elective	4
	Elective	4			
		19			18

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 57	Biological Colloids	3	Bc 102	Research, †8	4
Bc 101	Research, †8	4		Elective	14
	Elective	11			
		18			18

Curricula for Students Specializing in Botany and Entomology

These curricula are designed for those preparing themselves to engage in research or to enter the field of teaching in either the pure or applied science of botany or entomology. Students interested in botany or entomology as applied to agriculture or forestry may transfer from the Agriculture or Forestry curriculum at the beginning of the sophomore or junior years. Others will be guided by the freshman curriculum outlined below. A reading knowledge of French or German is required.

Botany or Entomology

FRESHMAN YEAR

Fall Semester

No.		Subject	Cr. Hours
Ch	1	General Chemistry, 2 †4	4
Eh	1	Composition	3
Md	1	Fund. of Drafting, †4	2
Ms	1	Trigonometry	2
Ms	3	Algebra	2
Mt	1	Military, †3	1½
Zo	3	Animal Biology, 2 †4	4
Pt	1	Physical Education, 2	0
			18½

Spring Semester

No.		Subject	Cr. Hours
Bt	2	General Botany, 2 †4	4
Ch	2	General Chemistry, 2 †4	4
Eh	2	Composition	3
Md	2	Elementary Machine Drafting, †4	2
Mt	2	Military, †3	1½
Zo	4	Animal Biology, 2 †4	4
Pt	2	Physical Education, 2	0
			18½

SOPHOMORE YEAR

No.		Subject	Cr. Hours
Bt	33	Forest Botany, 2 †4	4
En	21	Gen'l Entomology, 2 †4	4
Mt	3	Military, †3	2
Pt	3	Physical Education, 2	0
		Foreign Language	5
		Elective	3
			18

No.		Subject	Cr. Hours
Bt	34	Forest Botany, 2 †4	4
En	24	Taxonomy of Insects I, 2 †4	4
Mt	4	Military, †3	2
Pt	4	Physical Education, 2	0
		Foreign Language	5
		Elective	3
			18

Botany

JUNIOR YEAR

Fall Semester

No.	Subject	Cr. Hours
Bc 1	Organic Chemistry, 2 †2..	3
Bt 35	Plant Anatomy, 2 †4.....	4
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Eh 5	Technical Composition....	2
	Foreign Language	3
	Elective	2
		19

Spring Semester

No.	Subject	Cr. Hours
Bc 2	Biochemistry, 3 †4.....	5
Bt 56	Plant Pathology, 2 †4...	4
Eh 10	Modern Literature.....	2
Pb 2	Public Speaking.....	2
	Foreign Language.....	2
	Elective	4
		19

SENIOR YEAR

No.	Subject	Cr. Hours
Bt 45	General Genetics.....	3
Bt 53	Plant Physiology, 2 †4....	4
Bt 57	Taxonomy, 2 †4.....	4
Es 1a	Prin. of Economics	3
	Elective	4
		18

No.	Subject	Cr. Hours
Bt 30	Plant Ecology, 1 †2.....	2
Bt 46	Genetics Laboratory, †4.	2
Fm 48	Agricultural Economics.	3
	Elective 11	
		18

Entomology

JUNIOR YEAR

No.	Subject	Cr. Hours
Bc 1	Organic Chemistry, 2 †2..	3
By 1	Bacteriology, †6.....	3
By 3	Bacteriology	2
Eh 5	Technical Composition....	2
En 51	Morphology of Insects, 2 †4.....	4
	Foreign Language.....	3
	Elective	2
		19

No.	Subject	Cr. Hours
Bc 2	Biochemistry, 3 †4.....	5
Eh 10	Modern Literature.....	2
En 52	Taxonomy of Insects II, 1 †4	3
Pb 2	Public Speaking.....	2
	Foreign Language.....	2
	Elective	5
		19

SENIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 57	Taxonomy, 2 †4	4	Bt 56	Plant Pathology, 2 †4	4
En 47	Problem in Entomology	3	En 46	Advanced Forest Entomology	2
En 49	Economic Entomology, 2 †2	3	En 48	Problem in Entomology	3
Es 1a	Prin. of Economics	3	Fm 48	Agricultural Economics	3
	Elective	5		Elective	6
		18			18

Curriculum for Students Specializing in Horticulture

The curriculum in Horticulture is intended, not only to provide a good preparation for engaging directly in fruit growing, vegetable gardening, ornamental horticulture, or other horticultural industry, but also to make possible to the graduate a reasonably easy entrance into several professional occupations which may require the additional preparation of a period of intensive graduate study. Prominent among the positions occupied by graduates in horticulture are those of investigators in experiment stations, teachers in colleges and secondary schools, extension agents, and state and Federal employees in the investigational, inspection, and regulatory services.

Although but a single curriculum in horticulture appears in the catalog, tending to place emphasis on a general training in horticulture, the student who wishes to specialize in one division of horticulture may do so by combining a careful selection of elective courses with the completion of one of the following groups as a requirement: (1) fruit culture—Horticulture 1, 9, 10, 53, 56, and Farm Management 74; (2) vegetable gardening—Horticulture 10, 20, 21, 25, and Farm Management 74; (3) floriculture and ornamental horticulture—Agricultural Drafting, 9; Horticulture 3, 6, 7, 8, and 15. Problems in Horticulture, Courses 11 and 12, afford still further opportunity for progressive specialization.

The department will attempt so to administer the prescribed part of the curriculum and to advise students in the selection of elective courses that their individual capabilities may be developed and their interests encouraged to the fullest degree consistent with the belief that a liberal education should accompany and even take precedence over specialization in horticulture.

Conflicts in scheduling may largely be avoided by electing horticulture courses in this sequence: sophomore year, Courses 1, 4, 8, and 9; junior year,

Courses 3, 4, 6, 7, 20, 25, 53, and 54; senior year, Courses 10, 11, 12, 15, 21, 25, 53, 54, and 56.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 1	Soils, 2 *3	3
Bc 1	Organic Chemistry, 2 †2	3
En 21	Gen'l Entomology, 2 †4	4
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
	Elective	7
		19

Spring Semester

No.	Subject	Cr. Hours
Bc 2	Biochemistry, 3 †4	5
Ag 6	Soils and Fertilizers	2
Fm 48	Agricultural Economics	3
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
	Elective	7
		19

JUNIOR YEAR

No.	Subject	Cr. Hours
Ag 35	Land Drainage and Reclamation, 2 *3	3
Bt 53	Plant Physiology, 2 †4	4
By 3	Bacteriology	2
Eh 5	Technical Composition	2
	Horticulture	5
	Elective	3
		19

No.	Subject	Cr. Hours
Bt 56	Plant Pathology, 2 †4	4
	Horticulture	6
	Elective	9
		19

Ht 14 Summer Practice (elective) ..... *4 credit hours*

SENIOR YEAR

No.	Subject	Cr. Hours
Bt 45	General Genetics	3
Ht 51	Seminar	1
	Horticulture	6
	Elective	7
		17

No.	Subject	Cr. Hours
Ht 52	Seminar	1
	Horticulture	5
	Elective	11
		17

CURRICULA IN FORESTRY

Two curricula are offered in the Forestry Department, both sequences leading to the degree of Bachelor of Science. Courses offered during the first year in either of these sequences are the same.

Curriculum for the Freshman Year for All Students Taking Four-Year Curricula in the Department of Forestry

Fall Semester

No.		Subject	Cr. Hours
Ch	1	General Chemistry, 2 †4	4
Eh	1	Composition	3
Fy	1	Elements of Forestry	2
Md	1	Fund. of Drafting, †4	2
Ms	9	Trigonometry	2
Mt	1	Military, †3	1½
Zo	1	General Zoology, 2 †4	4
Fy	47	Orientation, 1	0
Pt	1	Physical Education, 2	0
			18½

Spring Semester

No.		Subject	Cr. Hours
Bt	2	General Botany, 2 †4	4
Ch	2	General Chemistry, 2 †4	4
Eh	2	Composition	3
Fy	2	Elements of Forestry	2
Md	2a	Drafting, †4	2
Ms	10	Trigonometry and Its Application	2
Mt	2	Military, †3	1½
Fy	48	Orientation, 1	0
Pt	2	Physical Education, 2	0
			18½

CURRICULUM IN FORESTRY

The four-year undergraduate curriculum in Forestry is offered. In addition four courses from this undergraduate curriculum are open to graduate credit to students majoring in other curricula. A limited number of graduate students will be accepted for graduate work upon completion of the four-year curriculum or its equivalent at another university. The Forestry curriculum follows. It is arranged to meet the requirements of the profession of forestry for forestry instruction in the United States. Completion of the curriculum leads to the degree of Bachelor of Science. It will enable the graduate to qualify for technical and administrative positions in the profession, and will admit to advanced standing in postgraduate schools of forestry if further and more advanced work is desired. It will also render a student eligible for the Civil Service examinations for the position of Junior Forester in the United States Forest Service, and other Federal bureaus employing foresters. Owing to the wide field covered by the curriculum it offers an excellent basis for a broad and liberal education.

The first two years are devoted very largely to fundamental and pre-technical subjects which are basic for a proper understanding of the more highly specialized work in technical subjects during 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.

A camp course of six weeks' practical experience is required of all men in the summer between the sophomore and junior years. This work is offered at a camp operated by the Department, where students are able to observe large forest areas under permanent management and large private manufacturing plants specializing in the utilization of various kinds of forest products. A second camp course of eight weeks' practical experience is required of all seniors at camps owned and operated by the Forestry Department and located on Indian Township, near Princeton, Maine.

SOPHOMORE YEAR

Fall Semester

No.	Subject	Cr. Hours
Ag 5	Soil Formation and Conservation	3
Bt 33	Forest Botany, 2 †4	4
Ce 1	Plane Surveying	3
Ce 3	Field Work and Plotting, *9	3
Es 1b	Principles of Economics	2
Fy 3	Logging	2
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
		19

Spring Semester

No.	Subject	Cr. Hours
Bt 34	Forest Botany, 2 †4	4
Eh 10	Modern Literature	2
En 22	Forest Entomology, 2 †4	4
Es 2b	Principles of Economics	2
Fy 4	Administration and Protection	4
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
		18

SUMMER CAMP

No.	Subject	Cr. Hours
Ce 7s	Highways and Railroads	2
Fy 35s	Silviculture	2
Fy 37s	Forest Mensuration	1
Fy 39s	Forest Products	1
		6

JUNIOR YEAR

Fall Semester				*Spring Semester*			
No.	Subject	Cr. Hours		No.	Subject	Cr. Hours	
Ag 3	Soils (Forest), 2 *3	3		Bt 32	Plant Physiology, 2 †4	4	
Bt 35	Plant Anatomy, 2 †4	4		Ce 6	Land Surveying, 2; *9, last 6 weeks	3	
Eh 5	Technical Composition	2		Fy 6	Forest Mensuration, 2 *3	3	
Fm 65	Forest Accounting, 2 *3	3		Fy 8	Silvics	2	
Fy 5	Forest Mensuration, 2 *3	3		Fy 10	Nursery Practice, last 9 weeks, *6	1	
Ht 5	Recreational Landscaping, 2 *3	3		Fy 12	Seeding and Planting	2	
					Elective	4	
		18				19	

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
	First 9 weeks		Bt 42	Forest Pathology, 2 †4	4
Fy 7	Lumber Manufacture	2	Fy 14	Forest Products	2
Fy 9	Wood Preservation	1	Fy 16	Wood Technology, 1 †2	2
Fy 51	Regional Silviculture	2	Fy 52	Policy and Economics	4
Fy 53	Forest Finance, 3 †2	2		Elective	6
Fy 55	Forest Management	2			
	Last 9 weeks				
Fy 41	Practice of Forestry, *48	9			
		18			18

CURRICULUM IN WILD LIFE CONSERVATION

A four-year undergraduate curriculum is offered in Wild Life Conservation and a limited number of graduate courses are available to students having had sufficient undergraduate background. The four-year undergraduate curriculum in the first year is the same as that for Forestry.

This sequence is arranged to cover a wide field of activities including the management of all types of game, waterfowl, fish and fur bearers on Federal, state, and privately owned land. It includes basic training in the artificial propagation of fish and game, and conservation of non-game species.

This curriculum prepares men for management and extension work in Federal and state departments concerned with the utilization of natural resources, for teaching in colleges and universities, and for research and experimental work in Federal, state, and college experiment stations. Graduates are eligible for Civil Service examinations prepared by the Federal Government.

The first two years are devoted largely to fundamental and pre-technical subjects which are basic for the applied courses offered in the last two years. A camp course of six weeks' practical experience is required of all undergraduates between the sophomore and junior years. This work is offered at a camp conducted by the Department where forest areas are being operated under a system of wild-life management.

SOPHOMORE YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 33	Forest Botany, 2 †4	4	Bc 4	Organic Chemistry, 3 †2	4
Ce 1	Plane Surveying	3	Bt 36	Taxonomy, 2 †4	4
Ce 3	Field Work and Plotting, *9	3	En 26	Aquatic Entomology, 2*3	3
Fy 13	Forest Protection	2	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Ph 10	Incubation and Brooding of Game Birds, 1 †2	2
Zo 9	Ichthyology, 2 †4	4	Zo 10	Ornithology, 2 †4	4
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
		18			19

SUMMER CAMP

No.	Subject	Cr. Hours
Fy 35s	Silviculture	2
Fy 37s	Forest Mensuration	1
Fy 45s	General Ecology	3
		6

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 5	Biochemistry, 3 †2	4	Eh 6	Technical Composition	2
Bt 41	Plant Parasitology, 2 *3	3	Fy 22	Mapping, 1 *6	3
Bt 45	Genetics	3	Fy 24	Game Food and Cover Planting, 1 *3	2
By 1	Bacteriology, †6	3	Ph 12	Principles of Breeding	2
By 3	Bacteriology	2	Zo 14	Animal Parasitology, 2 *3	3
Zo 13	Mammology, 2 †4	4		Elective	6
		19			18

SENIOR YEAR

An 9	Disease and Parasite Control (in wild life), 2 *3	3	Ph 14	Nutrition of Game Birds	2
Fy 55	Forest Management	2	Fy 52	Policy and Economics	4
Fy 57	Game Management, 3 *4	4	Fy 58	Game Management, 3 *4	4
Zo 19	Fish Culture, 1 *3	2	Zo 20	Fish Culture, 1 *3	2
Zo 21	Natural History	2	Zo 22	Natural History	2
	Elective	4		Elective	5
		17			19

CURRICULA IN HOME ECONOMICS

The Department of Home Economics offers curricula based on a consideration of the problems of the contemporary home and responsibilities of the modern home maker. The basic curriculum requires foundation work in the physical and social sciences, and Home Economics courses applying these sciences to problems of the home. In addition the student is required to complete a sequence of fifteen or more hours based on interest in a specialized subject-matter field or in a particular vocation. These sequences are listed below. As it is impossible in the limited time of classroom and laboratory to develop to a point of skill all the techniques necessary to success in a vocation, the student is expected to make provision during her vacations, or during the school year, for developing the kinds and degrees of skill essential to beginning the vocation she has selected.

Each curriculum includes in its total of 128 hours, 17 to 40 hours of electives in any department of the University for which the student is adequately prepared. These electives may be used to strengthen the individual's general education or her vocational preparation.

Basic Curriculum in Home Economics

Required of all students majoring in the department.

FRESHMAN YEAR

Fall Semester

No.	Subject	Cr. Hours
Ch 5	Inorganic Chemistry, 2 †4	4
Eh 1	Composition	3
Gc 1	Intro. to Soc. Sci.	3
He 1	Intro. to Home Economics	3
He 3	Design, 1 †4	3
Pe 1	Physical Education, 2	0
		16

Spring Semester

No.	Subject	Cr. Hours
Bc 4	Organic Chemistry, 3 †2.	4
Eh 2	Composition	3
Gc 2	Intro. to Soc. Sci.	3
He 2	Clothing Selection Problems	3
He 4	House Furnishing, 2 †2..	3
Pe 2	Physical Education, 2	0
		16

SOPHOMORE YEAR

No.	Subject	Cr. Hours
He 5	Foods, 2 †4	4
Py 1	General Psychology, 2 †2	3
	Sequence and Elective	9
Pe 3	Physical Education, 2	0
		16

No.	Subject	Cr. Hours
He 6	Foods, 2 †4	4
Py 2	General Psychology, 2 †2	3
Zo 12	Human Physiology, 3 †4	5
	Sequence and Elective	4
Pe 4	Physical Education, 2	0
		16

JUNIOR YEAR

Fall Semester			*Spring Semester*		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
By 3	Bacteriology	2	By 10	Sanitation	2
By 5	Bacteriology, †2	1	He 10	Home Care of Sick	1
Es 41	General Sociology	3	He 14	The Pre-School Child	3
Sequence and Elective		10	Sequence and Elective		10
		16			16

SENIOR YEAR

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
He 11	Household Management	2 or 3	*He 22	Household Admin.	3
He 53	Family Economic Problems	2 or 3	*He 70	Survey Examination	1 or 2
Ee 5a	Household Equipment	3	Sequence and Elective		12 or 11
Sequence and Elective		7 to 9			
		16			16

*May be taken in the fall as He 21 and He 69.

Sequences

HOME ECONOMICS EDUCATION. 37 hours.

This sequence fulfills the requirements for the Maine Professional Secondary Certificate necessary for teaching in the high schools of the state, and qualifies the student for teaching home economics and certain science courses in Maine high schools. She also is eligible, after a year of teaching experience, for the vocational certificate which qualifies for teaching in the schools which offer vocational programs with Federal support.

Requirements are as follows:

Bc 5	Biochemistry	4
Ed 77	Methods	3
Ed —	Education	3
He 7, 8	Clothing Construction Problems	4

He 51, 52	Advanced Clothing	6
He 56	Home Economics Education	3
He 59, (60)	Special Problems	2
He 63	Nutrition	2
He 66	Dietetics	2
He 71, (72)	Supervised Teaching	3
He 81, (82)	Institutional Management	3
Pb 1, (2)	Public Speaking	2

There is a demand for teachers prepared and certified to handle other high-school subjects in combination with Home Economics. Students who take this sequence are advised that it may be wise to choose their electives, in order to prepare themselves for certification in an additional subject. Pj 2, 4, Summer Project, is also recommended.

EXTENSION TEACHING. 28 hours.

This sequence prepares the student for work as a home demonstration agent or a 4-H Club agent.

Bc 5	Biochemistry	4
Ed 77	Methods	3
He 7, 8	Clothing Construction	4
He 51, 52	Advanced Clothing	6
He 59, (60)	Special Problems	2
He 63	Nutrition	2
He 65	Dietetics	2
He 81	Institutional Management	3
Pb 1, (2)	Public Speaking	2

Electives are recommended in journalism, horticulture, and additional home economics, education and social science. Since the sequence requirement is very similar to the Home Economics education sequence, a student may complete both.

FOOD AND NUTRITION. 22 hours.

This sequence is offered for students preparing for positions as hospital dietitians, Red Cross nutritionists, research workers in foods and nutrition, or home economists in commercial foods work. It meets the requirement of the American Dietetics Association for admission to student dietitianship in hospitals offering a Class A training course.

*Bc 53 or 61	Biochemistry	3
Bc 5	Biochemistry	4
He 63 (64)	Nutrition	2 or 3
He 65	Dietetics	2
*He 56	Home Economics Education	3
*He 67	Nutrition in Abnormal Conditions	2
*He 81, 83	Institutional Management	6

*For students preparing for commercial foods positions or for research, appropriate substitutes may be made for *starred courses.

TEXTILE AND CLOTHING SEQUENCE. 16 hours.

For students interested in the clothing, textile, or decoration field, as stylists, designers, buyers, or advertising copy writers.

He 7, 8	Clothing Construction	4
He 17	Applied Design	2
He 51, 52 a or b	Advanced Clothing	6
He 61	History of Costume	1
At	Art Courses	3

Students who select this sequence are recommended to include as electives such subjects as projects and special problems in clothing, and courses in journalism, accounting, drafting, public speaking, psychology, and medieval history.

CHILD DEVELOPMENT. 19 hours.

For students preparing for work in the rapidly expanding fields of nursery school and parental education.

Bc 5	Biochemistry	4
Ed 43, (44)	Character Education	3
He 59, (60)	Special Problems in Nursery School	2
He 63, (64)	Nutrition	2 or 3
He 65	Dietetics	2
Py 67, 71, 72, 81	(Six hours selected)	6

Students are advised to include courses in public speaking, in the appreciation of art and music, and additional zoology, English, education, and sociol-

ogy. Arrangements are made for a selected student each year to do one semester's work in this field at the Merrill-Palmer School, Detroit, Michigan. The work will be accepted as applying on basic and sequence requirements.

Other Sequences

For students whose needs are not met by these sequences, others may be arranged. They will consist of selected advanced Home Economics courses, and related work in other departments.

Special Students in Agriculture

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 only for students of unusual maturity (at least twenty-one years of age) 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 COURSE IN AGRICULTURE

This is a course of training for young men who wish to become practical farmers, farm superintendents, dairymen, poultrymen, fruit-growers, or gardeners, but who cannot devote time to full high school or college training. Open to women.

The same equipment is used as in the four-year curricula, but the work is more elementary in nature. Most of the classes are separate and distinct from the four-year classes.

Students who have satisfactorily completed two years of high-school work are eligible for registration.

There are no entrance examinations required of those who desire to enter the Two-Year Course.

On completion of the course a certificate is awarded those who have satisfactorily met the requiremnts.

Curriculum for Two-Year Course in Agriculture

FIRST YEAR

Fall Semester		*Spring Semester*	
Subject	Hours	Subject	Hours
Animal Husbandry, 2 †2	3	Carpentry, †4	2
Business Arithmetic	2	Dairy Husbandry, 2 †4	4
English	2	English	2
Farm Botany, 1 †2	2	Farm Economics	2
Farm Crops, 2 †2	3	Fruit Growing, 2 †2	3
Forge Work, *3	1	Poultry Husbandry, 2 †2	3
Fruit Handling, 2 †2	3	Soils and Fertilizers, 3 *3	4
Poultry Husbandry, 2 †2	3		
	19		20

SECOND YEAR

Subject	Hours	Subject	Hours
Animal Husbandry, 2 †2	3	Animal Husbandry, 3 †2	4
Animal Husbandry (Common Diseases of Farm Animals)	3	English	2
English	2	Farm Crops, 2 †2	3
Farm Engineering and Mechanics, 2 *3	3	Farm Machinery, 2 *3	3
Farm Insects, 1 †2	2	Forestry	2
Farm Management, 2 *3	3	Marketing Farm Products	3
Poultry Husbandry	2	Small Fruit Culture and Plant Propagation, 2 †2	3
Vegetable Growing, 2 †2	3		
	21		20

A description of subjects offered will be found on page 138.

SHORT COURSES IN AGRICULTURE

Short Courses in Agriculture are offered to the large number of young men and women and adults who are engaged or about to engage in agricultural or homemaking pursuits and who desire to devote a short time during the

winter months to the securing of definite instruction along the line of their special interests.

Courses of three weeks' duration are available in Dairy Production, Poultry Raising, Potato Production, and other subjects. Courses of shorter duration in other specialized agricultural subjects are also available.

Applicants for admission must be at least sixteen years of age and have had a good common-school education. Information concerning short courses may be secured by addressing the Director of Short Courses, College of Agriculture.

FARM AND HOME 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, "Farm and Home 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. Considerable emphasis is placed on agricultural marketing problems peculiar to Maine. The homemaking program includes the various phases of home management and is of interest to both rural and urban homemakers. Dates and programs may be secured each year by addressing the College of Agriculture.

THE EXTENSION SERVICE

The Extension Service is organized as a department of the College of Agriculture. It operates under the provisions of the Smith-Lever and Capper-Ketcham Acts, receiving its funds from State and Federal sources.

Its personnel is made up of two groups of agents. One group, the County Extension Agents, consists of agricultural agents, home demonstration agents, and club agents, having their headquarters within the counties in which they serve. The other group, the State Agent force, consists of a limited number of specialists and leaders having their headquarters at the University but working with and assisting the County Extension Agents.

The Extension Service through these men and women gives direct assistance to people living on the farms and in the rural and urban homes of this state. The Farm Bureau, an organization having a membership of more than 10,000 men and women, coöperates with the Extension Service in the determination and development of its county and community programs of work.

Extension 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.

Correspondence Service

It is recognized that a letter is a poor substitute for a personal conference in dealing with perplexing problems with which people are constantly confronted in the vocations of agriculture, forestry, and home economics, but the teachers in all departments of the college are always ready to furnish information dealing with these problems and thus render the greatest possible service to the people of the State. The College of Agriculture, therefore, 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.

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 51-100 are for graduates and undergraduates; courses numbered above 100 are primarily for graduates.

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

PROFESSOR MERCHANT; PROFESSOR JONES; ASSOCIATE PROFESSOR DOW; ASSISTANT PROFESSOR NIEDERFRANK

48. AGRICULTURAL ECONOMICS.—An introductory course in the principles of economics as applied to agriculture. Subjects considered are development of commercial agriculture, price-making forces, production, land tenure, farm capital, farm labor, foreign trade, tariff, taxation, and farm income. This course is intended to give a broad fundamental training in the subject. *Three hours a week. Three credit hours.* MR. JONES

52. FARM ACCOUNTING.—All forms of farm records; farm inventories, cash accounts, single-enterprise cost accounts, complete farm-cost accounting system, and miscellaneous records. Special emphasis is given to the interpretation of results and their practical application in the management of farms. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MR. JONES

62. AGRICULTURAL BUSINESS ACCOUNTING.—This course includes accounting methods for different types of farm business organizations such as coöperative marketing associations, creameries, cheese factories, Grange stores, and other similar organizations. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. NIEDERFRANK

65. FOREST ACCOUNTING.—This course includes accounting methods for the different types of logging and lumbering operations. It involves prob-

lems in cost and income factors, and profit and loss statements of various kinds of forest operations. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. NIEDERFRANK

73. ADVANCED AGRICULTURAL ECONOMICS.—An advanced course in the more important economic problems facing agriculture, such as effects of price declines, agricultural relief, production control, protective tariff, foreign trade and competition, agricultural organization, rent and systems. Prerequisite, Course 48. *Three hours a week. Three credit hours.* MR. JONES

74. FARM MANAGEMENT.—Farming as a business; size of business; balance; production rates; labor efficiency; crop rotations; machinery; farm layout; building arrangement; choosing and buying a farm; ways of starting to farm; and study of farm organization and management of specific farms in the vicinity. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* MR. JONES

75. AGRICULTURAL STATISTICS.—Course consists of practical problems in frequency distribution; averages; measurements of dispersion; measurements of trends; seasonal variations, and cyclical fluctuations; simple index numbers; simple linear and non-linear correlations; and standard and probable errors. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* MR. MERCHANT

76. AGRICULTURAL MARKETING.—The first part of the course deals with the economic principles of the present marketing structure and its operation. The latter part involves the study of distribution and marketing of potatoes, apples, wheat, wool, hay, peaches, tobacco, truck crops, dairy products, poultry and poultry products, beef cattle, sheep, and hogs. *Three hours a week. Three credit hours.* MR. MERCHANT

77. AGRICULTURAL FINANCE.—The farmers' credit needs are considered. Sources of credit available to farmers and conditions under which loans are made. Special attention is given to the study of the Federal Reserve System, Farm Credit Administration, store credit, and the place of mortgage and insurance companies in furnishing farm credit. *Two hours a week. Two credit hours.* MR. MERCHANT

78. MARKETING POTATOES.—A specialized course in the marketing of potatoes emphasizing trends in production, regional competition, grades, containers, storage, transportation, sale methods, and price relationships. *Three hours a week. Three credit hours.* MR. LIBBY

79. COOPERATIVE MARKETING.—Principles involved in coöperative organizations including the more important factors affecting the efficiency and success of coöperative organization, such as volume of business, capital and finance, management and price policies. The history, organization, and man-

agement of coöperative associations marketing the more important agricultural products. *Two hours a week. Two credit hours.* MR. DOW

81, 82. CURRENT ECONOMIC PROBLEMS.—Study of the effect of changing economic conditions and various governmental policies on our agriculture. All economic phases of the problems are considered, including farm management, prices, foreign trade, marketing, credit, taxation, agricultural adjustments, and associated fields. *One hour a week. One credit hour.*

MEMBERS OF THE DEPARTMENTAL STAFF

83, 84. THESIS.—All senior major students of the department are required to prepare a comprehensive thesis on a problem in agricultural economics, farm management, marketing, finance, statistics, or prices. **Six hours a week. Three credit hours.* MR. MERCHANT

85. AGRICULTURAL MARKETING (DAIRY AND POULTRY PRODUCTS).—A specialized course in the economic factors involved in marketing dairy and poultry products in New England. Production; regional competition; grades; containers; storage; transportation; finance; sales methods; foreign trade; tariff; surplus; demand, price, and methods of price determination and the costs of marketing are considered. *Two hours a week. Two credit hours.*

MR. DOW

86. AGRICULTURAL MARKETING (APPLES AND SMALL FRUITS).—A specialized course in the economic factors involved in marketing apples and small fruits with special emphasis on New England. The topics considered are production, varieties, regional competition, grades, containers, storage, transportation, finance, sales methods and the costs of marketing. *Two hours a week. Two credit hours.* MR. NIEDERFRANK

87. AGRICULTURAL PRICES.—The underlying factors causing price changes in agricultural commodities, long-time trends, seasonal variation, and cyclical movements of specific commodity prices, effects of reflation and deflation, inter-relationship of supply and prices, gold, and prices. *Two hours a week. Two credit hours.* MR. JONES

91. LAND UTILIZATION.—Utilization of the land area for various purposes, such as for agriculture, forestry, recreation, and industry, giving primary attention to agriculture. Physical factors and economic conditions determining utilization of farm land, production areas for important farm commodities, shifts taking place in these areas, trends in population and consumption. Land utilization programs. *Two hours a week. Two credit hours.* MR. JONES

92. RURAL TAX PROBLEMS.—National, state, and local problems connected with rural taxation. The effect of increased tax burdens on farmers. Growth of public expenditures; sources of public revenues; the general prop-

erty tax and its administration. How income, inheritance, and gasoline taxes affect farmers. Tax reform proposals. Problems involved in an equitable distribution of the tax burden. *Two hours a week. Two credit hours.*

MR. JONES

101. PRODUCTION COSTS.—Cost of producing important farm commodities in Maine and in competing areas; relation of cost of production to price; and efficiency of production under varying economic conditions. Prerequisite, Course 52. *Credit, arranged.* MR. JONES

102. ADVANCED AGRICULTURAL STATISTICS.—A continuation of Course 75 giving special attention to the methods and practical application of correlation analysis involving two or more variables, multiple correlation, and linear and curvilinear relationships. Prerequisite, permission to register. *Credit, arranged.* MR. DOW

103. ADVANCED FARM MANAGEMENT.—A continuation of Course 74 with special emphasis on the organization and management of specified types of farms under certain economic conditions, farm prices, and labor efficiency. The student is given an opportunity for study along some line in which he has a special interest. Prerequisite, Course 74. *Credit arranged.* MR. JONES

104. ADVANCED AGRICULTURAL MARKETING.—Advanced work in the marketing of a specific agricultural commodity. Special emphasis is given to marketing potatoes, apples, poultry, eggs, milk, butter, and cheese. Problem method is followed. Prerequisite, permission to register. *Credit, arranged.* MR. MERCHANT

AGRICULTURAL EDUCATION

PROFESSOR HILL

2. PRACTICE TEACHING.—Seniors who are minoring in agricultural education are expected to do some directed teaching in an approved school. This may necessitate a week's absence from the University. Each student will be required to observe four classes and teach eight classes. All lesson plans will be completed before the student leaves for his practice teaching. *Two credit hours.*

3, 6. SPECIAL METHODS IN TEACHING AGRICULTURE.—The work covers two semesters and is not a repeated course. The following are taken up: Federal legislation; aims and purposes; the curriculum; program making; course of study; teaching plans; rooms and equipment; texts and references; part-time and evening schools; Future Farmers of America; publicity; com-

munity work; reports; programs of work; examinations and grades. *Two credit hours each semester.**

4. Practice Teaching.—For seniors who major in Agricultural Education. The work is similar to that of Course 2, but in addition students will be out three weeks instead of one. Lesson plans for the last two weeks will be made while on the job, instead of being completed before the student leaves for his practice teaching. An allowance is given, sufficient to pay for traveling expenses and board. *Four credit hours.*

5. Supervised Farm Practice.—This course includes the following: requirements for supervised farm practice; importance of farm practice; selection of projects; project plans; project records; project supervision; project problems; long-time supervised farm practice program; supervised practice in lieu of a project; project budgeting; number and scope of projects; credit allowance for supervised farm practice; project contests. *Two credit hours.**

7. Lesson Planning.—A study of possible teaching methods and devices; practice in making lesson plans; methods of lesson emphasis; directing the supervised study period; directing the discussion period. *Two credit hours.**

8. Teaching Farm Mechanics.—Importance, aims, and purposes; choosing type of shop; tools and equipment; determining shop organization; shop texts and references; content and organization of courses; securing orders for shop work; making plans; instructing the class; grading shop projects. *Two credit hours.**

AGRONOMY AND AGRICULTURAL ENGINEERING

Professor Chucka; Assistant Professor Swift; Assistant Professor Raleigh; Assistant Professor Libby

Soils and Fertilizers

1. Soils.—Origin, types, physical and chemical properties of soils and their relation to crop production. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Libby

3. Soils (Forest).—Origin, types, physical and chemical properties of soils as related to forests. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

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* All work is scheduled for three periods per week, but classes meet only ten weeks each semester.

5. Soil Formation, Erosion, and Conservation.—Soil-forming rocks and minerals, agencies involved in soil formation; causes, types and extent of soil erosion; principles and methods of soil conservation. Classroom, *three hours a week. Three credit hours.* Mr. Chucka

6. Soils and Fertilizers.—Physical and chemical composition of soils and fertilizers as related to time and method of application, residual effects of fertilizers, fertilizer injury and fertilizer placement. Classroom, *two hours a week. Two credit hours.* Mr. Chucka

51. Soil Fertility.—Principles involved in the improvement and maintenance of soil fertility through the use of lime, stable manures, green manures, and commercial fertilizers. Classroom, *two hours a week. Two credit hours.* Mr. Chucka

52. Soil Classification, Surveying, and Mapping.—Theories, methods, and uses of soil classification, surveying, and mapping. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

54. Soil Analysis.—Principles, methods, and practical value of the various field and laboratory methods of soil analysis. Prerequisites, Courses 1 and 6. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* Mr. Chucka, Mr. Libby

Crops

11. Field Crops.—A course dealing with the principal field crops of the United States with special reference to crops important in New England. Consideration is given to general culture, use, and their adaptation. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Raleigh

13. Weed Identification and Control.—Characteristics of weeds, their sources, method of reproduction, dissemination, migration, and methods of control. Laboratory, †*four hours a week. Two credit hours.* Mr. Raleigh

14. Sweet Corn, Beans, and Peas.—The production of sweet corn, beans, and peas for canning purposes. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Mr. Raleigh

15. Potato Production.—A general study of all factors involved in the production of potatoes. Varieties, seed selection, preparation of land, planting, fertilization, spraying, harvesting, storing, grading, and marketing. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Libby

16. Forage and Pasture Crops.—Grasses, legumes, and root crops, their management and uses for forage and pasture. Prerequisite, Course 11.

Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. RALEIGH

60. CROP IMPROVEMENT.—Principles and methods involved in field-crop improvement and methods of testing new varieties. Prerequisite, Botany 45. *Three hours a week. Three credit hours.* MR. RALEIGH

62. SEED POTATO PRODUCTION.—A specialized study of the factors involved in seed potato production emphasizing selection of foundation seed stock, tuber unit planting, potato diseases, roguing, certification and development, and testing of new varieties. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. LIBBY

*78. MARKETING POTATOES.—A specialized course in the marketing of potatoes, emphasizing trends in production, regional competition, grades, containers, storage, transportation, sale methods, and price relationships. *Three hours a week. Three credit hours.* MR. LIBBY

Agricultural Engineering

30. AGRICULTURAL ENGINEERING.—A general course covering briefly all phases of agricultural engineering. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

33. FARM STRUCTURES.—Planning, designing, and the construction of farm buildings; water systems; heating systems; sewage disposal; and the use of concrete on the farm. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

34. FARM SHOP.—Training in the care and use of tools and equipment for ordinary construction and repair work found necessary on the farm. †*Four hours a week. Two credit hours.* MR. SWIFT

35. DRAINAGE AND LAND RECLAMATION.—A course covering the principles and practices of surveying, mapping, and leveling on the farm; improving and reclaiming farm lands. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

36. FARM MACHINERY AND POWER.—Simpler laws of mechanics as applied to farm machinery; the operation, adjustment, care, and efficiency of the more important farm machines; the application of power to farm operations and the operation, care, and repair of various forms of motors used for agricultural purposes. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. SWIFT

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* The description of this course also appears under the Department of Agricultural Economics and Farm Management and should be registered for under the designation, Fm 78.

Agronomy and Agricultural Engineering (General)

81, 82. SEMINAR.—Study of recent literature, problems and experiments pertaining to soils, crops, and agricultural engineering. For juniors and seniors majoring in Agronomy. *One hour a week. One credit hour.*
MEMBERS OF THE DEPARTMENTAL STAFF

83, 84. SPECIAL PROBLEMS IN AGRONOMY AND AGRICULTURAL ENGINEERING.—*Credit, arranged.* MEMBERS OF THE DEPARTMENTAL STAFF

85, 86. THESIS.—*Credit, arranged.*
MEMBERS OF THE DEPARTMENTAL STAFF

ANIMAL INDUSTRY

PROFESSOR CORBETT; PROFESSOR DORSEY; ASSOCIATE PROFESSOR SMYTH; ASSISTANT PROFESSOR GARDNER; ASSISTANT PROFESSOR HALL; ASSISTANT PROFESSOR WITTER; MR. DAVIS

Animal Husbandry

2. GENERAL ANIMAL HUSBANDRY.—The live stock industry, local and regional, including a study of breed histories and developments, and market types and classes. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. CORBETT, MR. HALL

3. CARE, FEED, AND MANAGEMENT OF LIVE STOCK.—Selection, breeding, growing, and maintenance of horses, cattle, sheep, and swine. Consideration is given to general principles of nutrition as applied to live stock, composition of feed stuffs, comparison and use of feeding standards, and calculating rations. Prerequisite, Course 2. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* MR. CORBETT, MR. HALL

42. 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 show ring and market. In so far as it is practicable, visits will be made to livestock farms. †*Two hours a week. One credit hour.* MR. HALL

44. ADVANCED LIVE STOCK FEEDING AND MANAGEMENT.—Nutrition and feeding experiments, as well as the methods and practices of the most successful feeders in production of milk, meat, and rearing of horses. Prerequisite, Course 3. *Two hours a week. Two credit hours.* MR. CORBETT

55. Animal Nutrition.—The physiology of digestion; the metabolism of carbohydrate, fat, protein, and mineral nutrients; net energy and methods used in determining energy values. Application of nutritional theories to practical feeding problems. Prerequisite, Course 44. *Two hours a week. Two credit hours.* Mr. Corbett

57, 58. Problems in Animal Husbandry.—*Credit, arranged.* Mr. Corbett

60. Advanced Animal Breeding.—Principles and theories of breeding as applied to the live stock industry; study of pedigrees and records using the breed herd books; and economic study of the generative systems of domestic animals. Prerequisite, Course 3. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Mr. Hall

63, 64. Seminar.—Preparation and presentation of papers dealing with topics in the field of Animal Husbandry. *One hour a week. One credit hour.* Mr. Hall

65. Advanced Animal Industry.—Market classes and types; pasture and feed lot management; and farm and packing house methods of preparing animal products for the market. Prerequisite, Course 3. *Two hours a week. Two credit hours.* Mr. Hall

Animal Pathology

5. Anatomy of Domestic Animals.—A general course in comparative anatomy of the domestic animals and birds. Emphasis is placed on the important histological features, and those parts of the body involved in the common diseases. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Witter

6. Physiology of Domestic Animals.—Principles of physiology as applied to domestic animals including birds. Special emphasis is placed on comparative features, especially of the circulatory, respiratory, digestive, and uro-genital systems. *Three hours a week. Three credit hours.* Mr. Witter

7. Animal Hygiene.—Principles of hygiene and sanitation applied to prevention and control of common diseases of domestic animals. Special attention given to the fundamentals of disease processes. Prerequisite, Course 6. *Two hours a week. Two credit hours.* Mr. Witter

8. Animal Pathology.—A study of infectious and parasitic diseases of domestic animals including the principles of immunology as applied to biological treatment and prevention. Prerequisite, Course 7. *Two hours a week. Two credit hours.* Mr. Witter

9. Disease and Parasite Control (In Wild Life).—A study of known infectious and parasitic diseases of game and fur-bearing animals, emphasizing preventive and control measures. Classroom, *two hours a week;* laboratory, †*two hours. Three credit hours.* Mr. Witter

Ph 8. Poultry Diseases.—Principles of hygiene and sanitation applied to the prevention and control of the diseases of poultry, including a detailed consideration of the pathological processes involved in the common diseases. *Two hours a week. Two credit hours.* Mr. Witter

Dairy Husbandry and Dairy Technology

1. General Dairying.—Milk, its secretion, composition, properties, pasteurization, and separation. Dairy practices in producing and handling milk and cream. Dairy equipment; use of common dairy machinery. Testing dairy products for fat (Babcock method), acidity, total solids, and common adulterations. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Dorsey, Mr. Davis

2. Butter Making.—Creamery butter industry. Starter making, cream ripening, churning, and preparing butter for market. Prerequisite, Course 1. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* Mr. Davis

3. Cheese Making.—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 1. Classroom, *two hours a week;* laboratory, **six hours a week. Four credit hours.* Mr. Dorsey

4. Condensed Milk.—Manufacture of unsweetened and sweetened condensed milk, and milk powder. Sanitary control of milk supply, factory methods, defects in products, and economic phases of the industry. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Dorsey

5. Market Milk.—The market milk industry from standpoints of production, supply, sanitary control, transportation, processing, delivery, organization, and economic aspects. Prerequisite, Course 1. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* Mr. Dorsey

6. Judging Milk and Milk Products.—Study and practice of methods employed in scoring and judging milk and milk products. Prerequisite, Course 1. †*Two hours a week. One credit hour.* Mr. Davis

51. Dairy Technology.—Milk products and by-products, methods of manufacture and processing, and scrutiny of recent literature relating to advances in dairy technology. Lectures and assigned readings. Prerequisite, Course 1. *Two hours a week. Two credit hours.* Mr. Dorsey

53, 54. Problems in Dairy Husbandry.—*Credit, arranged.*
Mr. Dorsey

55. Dairy Refrigeration.—Principles of refrigeration, refrigeration machinery and equipment, and applications of refrigeration to milk and milk products. *Two hours a week. Two credit hours.* Mr. Dorsey

58. Ice Cream Making.—Manufacture of ice cream and ices. Prerequisites, Courses 51 and 55. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Dorsey

61, 62. Dairy Technology Seminar.—Study of recent and current literature dealing with research problems and the industrial applications of research findings in the technological field of the dairy industry. For seniors majoring in Technology. *One hour a week. One credit hour.* Mr. Dorsey

63. Advanced Dairy Products Testing.—Testing milk and milk products by the Mojonnier method. Open to senior students in the Department of Animal Industry. *†Two or four hours a week. One or two credit hours.* Mr. Dorsey

64. Advanced Dairy Products Control.—Approved methods of testing dairy products, chemical, physical, and bacteriological used for control purposes in the dairy industry and the practical application of such new tests as they are introduced. Prerequisite, Course 63. *†Four hours a week. Two credit hours.* Mr. Dorsey

66. Dairy Machinery.—Milk and milk products machinery, accessory machinery, and plant layout. Prerequisite, Course 51. *†Four hours a week. Two credit hours.* Mr. Dorsey

Poultry Husbandry

1. General Poultry Husbandry.—A general course in poultry production, incubation, brooding, houseing, feeding, and management. Laboratory work includes production judging, preparation of poultry products for market, egg grading, and other poultry management practices. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.*
Mr. Smyth

2. Poultry Breeding.—Principles of breeding as applied to poultry inheritance of egg productivity; systems of breeding; and study of pedigrees

and breeding results. Some time is given to a study of methods used by successful poultry breeders. Prerequisites, Course 1 and Botany 45. Classroom, *two hours a week. Two credit hours.* MR. SMYTH

3. EXHIBITION AND PRODUCTION POULTRY JUDGING.—Selection and mating of fancy and utility poultry. Laboratory practice in judging fancy and utility poultry, and a study of the standard requirements of the breeds. Prerequisite, Course 1. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. GARDNER

4. INCUBATION AND BROODING.—Principles of incubation and brooding. Laboratory practice in incubator and brooder management. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. SMYTH

5. POULTRY FEEDING.—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. Prerequisite, Course 1. *Two hours a week. Two credit hours.* MR. GARDNER

6. POULTRY FARM MANAGEMENT.—The business of poultry farming; systems and operations in use on large poultry farms; planning of specialized poultry farms. In so far as is practicable, visits will be made to poultry farms. Prerequisites, Courses 1, 2, 3, and 5. Classroom, *one hour a week;* laboratory, †*two hours a week. Three credit hours.* MR. GARDNER

7. POULTRY SEMINAR.—A study of poultry organizations and literature giving results of recent research work in the field of poultry husbandry. Prerequisites, Courses 1, 2, and 3. Classroom, *two hours a week. Two credit hours.* MR. SMYTH

10. INCUBATION AND BROODING OF GAME BIRDS.—Principles of incubation and brooding; study of equipment and practical methods of brooder and range management. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. SMYTH, MR. GARDNER

12. PRINCIPLES OF BREEDING.—Applications of genetic principles of inheritance to birds and animals, systems of breeding and breeding records. *Two hours a week. Two credit hours.* MR. SMYTH

14. NUTRITION OF GAME BIRDS.—General principles of nutrition as applied to bird life; feeds—their classification and uses; formulating rations; methods and systems of feeding. *Two hours a week. Two credit hours.* MR. GARDNER

51, 52. PROBLEMS IN POULTRY HUSBANDRY.—*Credit, arranged.* MR. SMYTH

BACTERIOLOGY

PROFESSOR HITCHNER; MR. HIGHLANDS; MR. HOOK

1. BACTERIOLOGY.—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and study of morphological and biological characteristics of typical bacteria. Some outside reading is required. Course 3 must be taken in conjunction. †*Six hours a week. Three credit hours.*

MR. HITCHNER, MR. HIGHLANDS, MR. HOOK

2. BACTERIOLOGY.—Similar to Course 1. Offered for students in the College of Technology and others who may elect it. Special emphasis is placed upon bacteriology of water and sewage. Prerequisite, Course 3. †*Six hours a week. Three credit hours.* MR. HIGHLANDS, MR. HOOK

3. BACTERIOLOGY.—A lecture course open to all students. It must be elected by students taking Course 1. Subjects considered include the history of bacteriology; classification and biological characteristics of bacteria; bacteria in air, water, soil, and dairy products; relation of bacteria to health and disease; and immunity. *Two hours a week. Two credit hours.*

MR. HITCHNER

5. BACTERIOLOGY.—An abbreviated laboratory course in general bacteriology. Practical demonstrations of the relation of bacteria to disease, sanitation, food handling, and other economic phases are given. The aim is to develop appreciation of bacteriological technic. Course 3 must be taken in conjunction. †*Two hours a week. One credit hour.* MR. HIGHLANDS

10. SANITATION AND PUBLIC HEALTH.—General consideration of the relationship between the health of the individual and environment. Special emphasis placed on communicable diseases and their control. Sanitary programs for the home and community will be considered, such as sewage disposal, safe water supplies, industrial sanitation, and dust menaces. Prerequisite, Course 3. *Two credit hours.* MR. HIGHLANDS

52. BACTERIOLOGY.—Physiological, morphological, biochemical, and serological activities of bacteria; isolation and identification of pathogens together with animal inoculation and serological tests. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

54. BACTERIOLOGY (DAIRY).—Effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemic tests for quality of milk; and study of effect of separators, clarifiers, coolers, etc., on the bacterial content of milk

and cream. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.*

MR. HITCHNER, MR. HIGHLANDS

55. BACTERIOLOGY (SOIL).—A theoretical and experimental consideration of the relationship of microörganisms and soil fertility. A study of the factors which influence the changes produced through microbial action. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

61, 62. SEMINAR.—Preparation and presentation of papers dealing with current researches and developments in the fields of bacteriology. *One hour a week. One credit hour.* MR. HITCHNER

101, 102. PROBLEMS IN BACTERIOLOGY.—A laboratory and conference course for students desiring to pursue some particular line of bacteriological investigation. This may include problems in applied bacteriology especially devoted to food technology. Open only to students who have done considerable work in bacteriology. The kind of work is arranged to suit individual students. *Credit, arranged.* MR. HITCHNER, MR. HIGHLANDS

BIOLOGICAL AND AGRICULTURAL CHEMISTRY

PROFESSOR SMITH; ASSISTANT PROFESSOR FREEMAN

Biochemistry

1. ORGANIC CHEMISTRY.—For agricultural students. A study of the aliphatic compounds; hydrocarbons, alcohols, acids, amines, amides, etc., and brief resumé of the more important aromatic compounds. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

MR. SMITH

2. BIOCHEMISTRY.—Plant biochemistry, including a study of the physico-chemical reactions of plants. A detailed study of carbohydrates, fats, and proteins; glucosides; and enzymes. Prerequisite, Course 1. Classroom, *three hours a week;* laboratory, †*four hours a week. Five credit hours.*

MR. SMITH

4. ORGANIC CHEMISTRY.—The aliphatic hydrocarbons, alcohols, acids, amines, amides, etc.; important aromatic compounds; the physico-chemical reactions of plants and animals. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* MR. FREEMAN

5. BIOCHEMISTRY.—The carbohydrates, fats, and proteins; chemistry of digestion; respiration, blood, and lymph. Prerequisite, Course 4. Class-

room, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* MR. FREEMAN

8. AGRICULTURAL CHEMISTRY.—Chemistry of the soil elements; colloidal condition and its effect upon the soil; chemical relationship of fertilizing constituents; and synthetic methods of producing fertilizing ingredients. Prerequisite, Course 1. *Two hours a week. Two credit hours.* MR. SMITH

9. BIOCHEMISTRY.—Animal biochemistry. Composition of the animal body; chemistry of digestion; assimilation and metabolism of foods; chemistry of blood and lymph; and elimination of waste product. Prerequisite, Course 2. *Two hours a week. Two credit hours.* MR. SMITH

51. BIOCHEMISTRY.—Detailed study of carbohydrates, fats and proteins; nature of enzymes and their effect upon food materials; chemical changes involved in digestion, assimilation, and absorption of foods; respiration; chemistry of the blood, including clinical methods of analysis; and elimination of waste material from the animal body. Prerequisite, Course 1 or 4. *Three hours a week. Three credit hours.* MR. SMITH

53. AGRICULTURAL ANALYSIS.—A course dealing with quantitative analysis of fertilizers, foods, dairy products, and textile materials. Type of work will be adapted to needs of the student. Prerequisite, Course 1 or 4. †*Four or* †*six hours a week. Two or three credit hours.* MR. FREEMAN

57. BIOLOGICAL COLLOIDS.—An introduction to colloidal chemistry with application and significance in biological systems. Open to junior, senior, and graduate students. Prerequisites, Courses 1 and 2 or 4 and 5. *Three hours a week. Three credit hours.* MR. FREEMAN

61. ADVANCED BIOCHEMISTRY.—A complete consideration of the chemistry of carbohydrates, fats, and proteins with special reference to recent advances in these fields; methods used in biochemical research; special problems in plant and animal biochemistry. Prerequisite, Course 2 or 5. *Three hours a week. Three credit hours.* MR. SMITH

62. ADVANCED BIOCHEMISTRY.—A continuation of Course 61, with special reference to literature devoted to the subject matter. Prerequisite, Course 61. *Three hours a week. Three credit hours.* MR. FREEMAN

64. BIOCHEMICAL LABORATORY METHODS.—Methods used in the biochemical laboratory for testing carbohydrates, fats, amino acids, proteins, enzymes; studies of the colloidal properties of biochemical material; H-Ion concentration measurement methods; and individual problems dealing with various phases of biochemical investigations. Prerequisite, Course 53. †*Six hours a week. Three credit hours.* MR. FREEMAN

101, 102. BIOCHEMICAL RESEARCH.—Problems dealing with various phases of biological or agricultural chemistry. Special problems may be se-

lected by the student under direction and advice of the Department. A comprehensive written summary is required. Open only to senior and graduate students. *Credit, arranged.* Mr. Smith, Mr. Freeman

BOTANY AND ENTOMOLOGY

Professor Steinmetz; Assistant Professor Dirks; Assistant Professor Steinbauer; Assistant Professor Hyland; Mr. Lloyd

Botany

2. General Botany.—Fundamental principles of plant life, with special emphasis on life processes. Required of all students in the College of Agriculture excepting those registered in Home Economics. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Steinmetz and Assistants

30. Plant Ecology.—Environmental factors determining adaptations and distribution of plant life. Prerequisite, Course 2. Classroom, *one hour a week;* laboratory, *†two hours a week. Two credit hours.* Mr. Steinmetz

32. Plant Physiology.—For students in Forestry. Prerequisites, Course 2 and one year of chemistry. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Steinbauer

33. Forest Botany (Dendrology).—Classroom and field work on characteristics, habits, and classification of trees and native shrubs of North America. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Hyland

34. Forest Botany (Physiography).—A comprehensive study of range, distribution, and soil requirements of commercial timber trees of the United States. Prerequisite, Course 33. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Hyland

35. Plant Anatomy.—Structure of leaves, roots, and stems of herbaceous and woody plants. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Steinmetz, Mr. Hyland

36. Taxonomy.—Flora of the field, woods, and stream. Prerequisite, Course 33. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* Mr. Steinmetz

41. Plant Parasitology.—Diseases of wild life caused by plant organisms. Prerequisite, Course 36. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Steinmetz

42. Forest Pathology.—Principles of plant diseases, as applied to seedlings, nursery stock, and forest trees; destruction of timber by fungi; and principles of control. Required of seniors in Forestry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Steinmetz

43. Wood Identification.—Identification of commercial woods with the unaided eye, lens, and microscope. Open to students in Chemical Engineering. **Three hours a week. One credit hour.* Mr. Hyland

45. General Genetics.—Principles of genetics. Prerequisite, one year of biology. Open to juniors and seniors. *Three hours a week. Three credit hours.* Mr. Steinmetz, Mr. Steinbauer

46. Genetics Laboratory.—Breeding of Drosophila. Study of plant materials. Supplementary reading. †*Four hours a week. Two credit hours.* Mr. Steinmetz

53. Plant Physiology.—Classroom and laboratory work on the physiology of plants. Prerequisites, Course 2 and one year of chemistry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Steinbauer

56. Plant Pathology.—Principles of plant disease. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Steinmetz

57. Taxonomy of Vascular Plants.—Characteristics, identification, and classification of representative species of vascular plants. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory and field, †*four hours a week. Four credit hours.* Mr. Steinmetz

59. General Mycology.—Morphology, identification, and classification of representative species of fungi. Prerequisite, Course 2. Classroom, *two hours a week;* laboratory and field, †*four hours a week. Four credit hours.* Mr. Steinmetz

Entomology

21. General Entomology.—Fundamental facts and principles of insect life, principles of control, characteristics of the orders and families, and the relations of insects to plants and animals. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Dirks

22. Forest Entomology.—Principles of insect life with special reference to shade and forest trees. Structure, metamorphosis, classification, and methods of control. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Dirks

24. Taxonomy of Insects, I.—Methods of collecting, preparing, and mounting insects; principles of insect classification; practice in use of keys for the identification of common insects. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Dirks

26. Aquatic Entomology.—Principles of insect life with reference to aquatic insects. Classification, identification, life histories, and importance of aquatic insects. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Dirks

40. Apiculture.—A practical course in the care of bees. The honeybee, its activities and habits; races of bees; diseases and enemies; and the production and marketing of honey. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Mr. Dirks

46. Advanced Forest Entomology.—An intensive study of insects that are destructive to shade and forest trees and to forest products. Prerequisite, Course 21 or 22. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Mr. Dirks

49. Economic Entomology.—An intensive study of the important insects of the orchard, garden, and farm; their life histories and habits, injuries, and methods of control. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Dirks

51. Morphology of Insects.—An introduction to the principles of insect morphology. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Dirks

52. Taxonomy of Insects, II.—Principles of wing venation; classification of the lepidoptera, diptera, and hymenoptera. Prerequisite, Course 51. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* Mr. Dirks

Problem Courses

47, 48. Problems in Botany or Entomology.—Open to juniors and seniors who have special interest and qualification in botany or entomology. The approval of the head of the department must be obtained before registering for this work. *Credit, arranged.*

Members of the Departmental Staff

103, 104. PROBLEMS IN GENETICS.—*Credit, arranged.* MR. STEINMETZ

105, 106. PROBLEMS IN ENTOMOLOGY.—*Credit, arranged.* MR. DIRKS

107, 108. PROBLEMS IN BOTANY.—*Credit, arranged.* MR. STEINMETZ

FORESTRY

PROFESSOR DEMERITT; ASSOCIATE PROFESSOR GOODSPEED; ASSISTANT PROFESSOR CHAPMAN; ASSISTANT PROFESSOR ASHMAN

1. ELEMENTS OF FORESTRY.—Importance and scope of the field of forestry, general methods of cutting and reforestation applicable in different regions in the United States. Designed as a beginning course for foresters and a cultural course for others. Required of freshmen majoring in Forestry, and open to other students. *Two hours a week. Two credit hours.*
MR. DEMERITT

2. ELEMENTS OF FORESTRY.—A continuation of Course 1, required of freshmen majoring in Forestry and open to other students. Prerequisite, Course 1. *Two hours a week. Two credit hours.* MR. DEMERITT

3. LOGGING.—The lumber industry in the United States considered from an economic standpoint; an account of logging methods in different forest regions. Textbook and lectures. Forestry sophomores only. *Two hours a week. Two credit hours.* MR. CHAPMAN

4. ADMINISTRATION AND PROTECTION.—Problems in the administration of national, state, and private forest enterprises. Forest improvements, including trails, telephone lines, and look-out towers. Forest fire control. *Four hours a week. Four credit hours.* MR. DEMERITT

5. FOREST MENSURATION.—Theory and application of measurements of logs, trees, and stands of timber. Classroom, *two hours a week.* Field work, **three hours a week. Three credit hours.* MR. DEMERITT, MR. CHAPMAN

6. FOREST MENSURATION.—A continuation of Course 5. Theory and application of measurements of growth and yield. Classroom, *two hours a week;* field work, **three hours a week. Three credit hours.*
MR. DEMERITT, MR. CHAPMAN

7. LUMBER MANUFACTURE.—Milling and marketing problems of the lumber industry in America. Forestry seniors only. First half of semester. *Four hours a week. Two credit hours.* MR. CHAPMAN

8. SILVICS.—The life factors determining the character and form of forest vegetation. The development of forest types and the silvical character-

istics of stands. Prerequisites, Botany 33, 34. Forestry juniors only. *Two hours a week. Two credit hours.* MR. ASHMAN

9. WOOD PRESERVATION.—Durability and seasoning of native woods; preservatives in commercial use; and methods of operation and equipment of preserving plants. Special attention given to posts, ties, poles, paving-blocks, and structural timbers. Prerequisites, Botany 33, 34, and 35. First half of semester. *Two hours a week. One credit hour.* MR. CHAPMAN

10. NURSERY PRACTICE.—To be taken in connection with Course 12. The study of forest-tree seed and seedlings; planting and transplanting in the State Forest Nursery; practice in field planting. Nursery management. Last nine weeks. **Six hours a week. One credit hour.*

MR. ASHMAN, MR. GOODSPEED

11. FOREST RECREATION.—Recreation from the viewpoint of the forester. Recreation planning in state and national forests and parks and on private estates. Brief consideration of game management in forestry. Summer camp administration. Forestry juniors and seniors only. *One hour a week. One credit hour.* MR. ASHMAN

12. SEEDING AND PLANTING.—Artificial regeneration and afforestation, in the practice of forestry. Forest nursery management. *Two hours a week. Two credit hours.* MR. ASHMAN

13. FOREST PROTECTION.—Forest enemies with particular reference to fire, insects, and fungi. General methods for the control of forest fires and the administration of fire-fighting organizations. *Two hours a week. Two credit hours.*

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14. FOREST PRODUCTS.—Forest products other than logs and lumber, such as pulpwood, 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. *Two hours a week. Two credit hours.* MR. CHAPMAN

16. WOOD TECHNOLOGY.—Identification and classification of the commercial woods of the United States based on simple lens inspection; the technical qualities of various species and their uses in the arts and trades. Prerequisite, Botany 33, 34, and 35. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. GOODSPEED

18. PREPARATION AND DRAFTING OF MAPS.—Instruction in the correct drafting, preparation, and coloring of maps. The use of accepted conventional signs and symbols in mapping, and preparation of maps for reports and summaries of field surveys. Prerequisite, Drafting 1, 2a. **Three hours a week. One credit hour.* MR. CHAPMAN

20. Woodlot Forestry.—General principles of forestry, with special reference and application to farm woodlands, particularly in this region. Lectures and textbook work in elementary systems of cutting, estimating, protection, and reforestation. Especially for agricultural students. Open to all students. *Two hours a week. Two credit hours.* Mr. Chapman

22. Mapping.—Field and office work in the preparation of forest property maps with special reference to type mapping for forest cover, game escape cover, and food cover. Classroom, *one hour a week.* Field work, **six hours a week. Three credit hours.*

24. Game Food and Cover Planting.—Artificial regeneration and transplanting of trees and shrubs with particular reference to those having a value as game food and cover. Classroom, *one hour a week.* Field work, **three hours a week. Two credit hours.*

43, 44. Special Problems.—Original investigation in advanced forestry work, the subject to be chosen after consultation with the departmental staff. Open to high ranking juniors and seniors. *Credit, arranged.*

Members of the Departmental Staff

47, 48. Orientation.—A course of lectures for freshmen in Forestry designed to acquaint them with the fields open to forestry and wild life graduates. *One hour a week. No credit.* Mr. Demeritt

51. Regional Silviculture.—Applied systems of silviculture and management considered in relation to commercially important timber species and forest types in the United States; the application of thinnings; methods of natural reproduction; silvicultural methods. First half-semester. *Four hours a week. Two credit hours.* Mr. Ashman

52. Policy and Economics.—Character, extent, and distribution of forest resources, national, state, private, and foreign. Relation of government, corporations, and individuals to forest resources and applied forest management. Brief discussion of state and Federal forest laws. *Four hours a week. Four credit hours.* Mr. Demeritt

53. Forest Finance.—Forest valuation and statics. The appraisal of values of stands of timber. Determination of returns from forests under management. Damage appraisal. First half-semester. Classroom, *three hours a week.* Laboratory, †*two hours a week. Two credit hours.*

Mr. Goodspeed

55. Forest Management.—Theory of the normal forest; forest organization and regulation for a sustained yield. Calculations for and preparation of a forest-management plan. First half-semester. *Four hours a week. Two credit hours.* Mr. Goodspeed

57, 58. GAME MANAGEMENT.—Production of sustained annual crops of wild game for recreational use. Field studies in game census work, artificial restocking, and ecological factors controlling game populations. Classroom, *three hours a week.* Field work, †*four hours a week. Four credit hours.*

101, 102. FOREST MENSURATION PROBLEMS.—*Credit, arranged.*
MR. DEMERITT

103, 104. FOREST MANAGEMENT PROBLEMS.—*Credit, arranged.*
MR. DEMERITT, MR. GOODSPEED

105, 106. GAME MANAGEMENT PROBLEMS.—*Credit, arranged.*
MR. DEMERITT

107, 108. RESEARCH METHODS.—*Credit, arranged.* MR. DEMERITT

Courses in Camp

35s. SILVICULTURE.—Sophomore year only. Character and form of forest vegetation and recommended cutting operations for different kinds of forest types. To secure high quality natural regeneration. Studies to be conducted on areas now operated by Government and private owners. *Sixteen hours a week. Two credit hours.*
MEMBERS OF THE DEPARTMENTAL STAFF

37s. FOREST MENSURATION.—Sophomore year only. Practical field work in the measurement of logs, individual trees and large stands of timber. Forestry instruments. **Eight hours a week. One credit hour.*
MEMBERS OF THE DEPARTMENTAL STAFF

39s. FOREST PRODUCTS.—Sophomore year only. Study of forest products other than logs and lumber with particular reference to their manufacture. **Eight hours a week. One credit hour.*
MEMBERS OF THE DEPARTMENTAL STAFF

41. PRACTICE OF FORESTRY.—Forestry seniors only. Business principles involved in the management of a forest area including the preparation of a complete working plan. Topographic maps and detailed estimate of stands are included in the plan. Second half-semester. **Forty-eight hours a week. Nine credit hours.*
MR. ASHMAN, MR. GOODSPEED

45s. GENERAL ECOLOGY.—Course covering the field study of flora and fauna in relation to environment. Field work, **twenty-four hours a week. Three credit hours.*
MEMBERS OF THE DEPARTMENTAL STAFF

HOME ECONOMICS

PROFESSOR GREENE; PROFESSOR SWEETMAN; ASSISTANT PROFESSOR MUSGRAVE; ASSISTANT PROFESSOR HAILE; MRS. WELLS; MRS. STEWART; MISS GOULD

1. INTRODUCTION TO HOME ECONOMICS.—A study of the problems of adjustment to college life and vocational preparation. A survey of the professional fields open to Home Economics trained women. *Three hours a week. Three credit hours.* MISS GREENE, MRS. STEWART

2. CLOTHING SELECTION PROBLEMS.—Study of factors involved in selection of clothing in good taste. Economic aspects including budgets and detailed study of fabrics and fibers. Prerequisite, Course 3. *Three hours a week. Three credit hours.* MISS MUSGRAVE

3. DESIGN.—A first course in art expression. The principles of design as they may be applied to house decoration, costume design, advertising and related subjects. Some technique in the use of color, line, balance, rhythm, emphasis, and proportion is acquired in the laboratory. Classroom, *one hour a week;* laboratory, *†four hours a week. Three credit hours.*
MISS MUSGRAVE

4. HOUSE FURNISHING.—Artistic and practical objectives to be attained in furnishing a house. Furniture and materials used. Problems in furnishing plans. Prerequisite, Course 3. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* MISS MUSGRAVE

5. FOODS.—Methods of food preparation with study of effects on nutritive quality, palatability, digestibility, sanitary quality, and economy. Laboratory work in preparation of different types of foods and experimental study of effects of variations in procedure. Prerequisite, one year of chemistry; for Home Economics students, Chemistry 5 and Biochemistry 4. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.*
MRS. SWEETMAN, MRS. WELLS

6. FOODS.—A continuation of Course 5, including problems in food buying and the planning and serving of meals. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.*
MRS. SWEETMAN, MRS. WELLS

7, 8. CLOTHING CONSTRUCTION PROBLEMS.—A laboratory course dealing with the techniques of construction of garments. Simple drafting, the use of patterns, fitting and finishes are included. Prerequisite, Course 3. *†Four hours a week. Two credit hours.* MRS. WELLS

10. Home Care of the Sick.—A study of the principles and practices of care of the sick. Designed to train the student to recognize common symptoms of departure from normal health, to give routine home care in minor illnesses and to carry out intelligently the directions of a physician. Prerequisite, Bacteriology 3. *One credit hour.* Miss Greene

11. Household Management.—Homemaking as a profession. Standards and objectives for household management in the provision of health, contentment, and development of family members. Techniques of management of time and energy to contribute to securing the values of family life. Open to senior Home Economics students only. *Two or three hours a week. Two or three credit hours.* Miss Haile

14. The Pre-School Child.—A study of factors involved in physical, mental, social, and emotional development of children. Opportunity for observing and guiding activities of pre-school children provided in a play school. Open to junior Home Economics students only. Classroom and laboratory as arranged. *Three credit hours.* Miss Haile

15. Millinery.—Principles of design and color applied to choice of hats. Consideration of materials used and making hats in the prevailing fashion. Open to Home Economics juniors and seniors. †*Two hours a week. One credit hour.* Miss Musgrave

17, (18) Applied Design.—Application of design principles to problems in textiles including block printing, batik, decorative needlework, and hand weaving. Prerequisite, Course 3. †*Four hours a week. Two credit hours.* Miss Musgrave

21, (22). Household Administration.—Students organize and execute activities of the home management house. The course aims to develop attitudes essential to satisfactory group living and managerial ability by coördinating previous training in conditions approximating home life. Opportunity for marketing, planning, preparing, and serving meals, care of a young child, money management, care of the house, and informal home entertaining. Seniors, or juniors by permission. *Three credit hours.* Miss Haile

25. Economics of the Household.—Planning personal and family expenditures with emphasis on problems of the consumer-buyer. For Arts and Sciences students above freshman rank only. *Two hours a week. Two credit hours.* Mrs. Sweetman

26. The Child in the Home.—Functions of the home as an environment for human development; factors involved in the growth and development of children. For Arts students. Corresponds in part to Course 14.

Laboratory consists of observation of play school. Classroom and laboratory as arranged. *Three credit hours.* MISS HAILE

28. CAMP FEEDING.—Problems involved in selection, purchase, and preparation of food for camp groups. Open only to Forestry juniors by permission of the head of the Forestry Department. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* MRS. STEWART

51. ADVANCED CLOTHING.—Clothing economics including study of fashion, retailing, and standards for consumer buying of clothing. Laboratory problems in selecting and constructing tailored coats and children's clothing. Prerequisites, Courses 7 and 8. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.*
MISS MUSGRAVE, MRS. WELLS

52a. ADVANCED CLOTHING AND COSTUME DESIGN.—A continuation of Course 51. Application of design principles in line, color, dark and light, and texture to costumes for the individual. Draping on the dress form and constructing informal and formal silk dresses. †*Six hours a week. Three credit hours.* MISS MUSGRAVE

52b. ADVANCED CLOTHING AND COSTUME DESIGN.—Costume design as in Course 52a. Laboratory study of commercial patterns, pattern construction, fitting abnormal figures, and the making of formal and informal silk dresses. †*Six hours a week. Three credit hours.* MRS. WELLS

53, (54). FAMILY ECONOMIC PROBLEMS.—A study of family cash and real income as related to American standards of living. Household budgets. Consumer buyer problems. Prerequisite or parallel, Course 11. *Two or three hours a week. Two or three credit hours.* MISS GREENE

56. HOME ECONOMICS EDUCATION.—Principles of teaching as applied to junior and senior high-school home economics. Aims: selection of subject matter, and choice of method as exemplified in current literature, courses of study, and textbooks. Organization problems, equipment, budget, and classroom management are included. *Three hours a week. Three credit hours.*
MISS GREENE

57, 58. THESIS.—Undergraduate thesis in any one of the fields of home economics. *Credit, arranged.* MEMBERS OF THE DEPARTMENTAL STAFF

59, 60, a-j. SPECIAL PROBLEMS.—Individual problems in the various fields of home economics, arranged to enable students to extend their command of subject matter, or develop techniques according to individual interests and needs. A student may register more than once for the course, but for no more than three hours in any one subdivision. *One to three credit hours,* in each subdivision.

59, 60a. Nutrition
59, 60b. Foods
59, 60c. Clothing and Textiles
59, 60d. Design
59, 60e. History of Costume
59, 60f. House Planning and Decoration
59, 60g. Child Development
59, 60h. Household Management
59, 60i. Home Economics Education
59, 60j. Institutional Management

Members of the Departmental Staff

61. History of Costume.—A survey of the development of costume of men and women from the peoples of antiquity, through various periods of European history to the present time. Lectures, reading and collection of illustrations. *One hour a week. One credit hour.* Miss Musgrave

63, (64). Nutrition.—Principles involved in normal nutrition at all ages. Prerequisite, Biochemistry 5, or Chemistry 51-52. *Two or three hours a week. Two or three credit hours.* Mrs. Sweetman

65, (66). Dietetics.—Calculation and preparation of dietaries for normal individuals. Parallel or prerequisite, Course 63. †*Four hours a week. Two credit hours.* Mrs. Wells

67, (68). Nutrition in Abnormal Conditions.—A study of the principles involved in adjusting diets in such diseases or other abnormal conditions as are benefited by variations from normal diets. Laboratory consists of demonstrations of nutritional deficiencies in animals. Prerequisite, Course 63. *Two or three credit hours.* Mrs. Sweetman

69, (70). Survey Examination.—A comprehensive examination to test the student's command of home economics and related subject matter, and her ability to integrate, organize, and present it orally and in writing. Preparation for the examination consists of the making and use of outlines and bibliographies in the major divisions of the field. Required of senior Home Economics students. *One or two credit hours.*

Members of the Departmental Staff

71, (72). Supervised Teaching.—Directed teaching in home economics. Students teach classes in the junior and senior high school at Brewer. Open to senior Home Economics students only. *Three credit hours.* Miss Gould

81, (82). Institutional Management (Foods).—Problems involved in the feeding of groups on a commercial basis, as menu planning, the application of food-preparation principles to large-quantity cookery, use of large

scale equipment, quality standards. A faculty dining room is operated as a laboratory for the course. Prerequisite, Course 5, 6. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MRS. STEWART

83, (84). ADVANCED INSTITUTIONAL MANAGEMENT (FOODS).—Management and administrative problems including personnel, equipment, and cost studies. Laboratory as in Course 81-82 with emphasis on managerial responsibilities. Lecture open only to seniors. Prerequisite, Course 81, (82). Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MRS. STEWART

101, (102). ADVANCED NUTRITION.—Methods of research in nutrition and recent advances in the field. Prerequisite, Course 63. Not offered every year. *Two or three credit hours, as arranged.* MRS. SWEETMAN

103, (104). ADVANCED FOODS.—Methods of research in food preparation and recent advances in the field. Prerequisites, Course 6 and Biochemistry 5. Not offered every year. *Two or three credit hours, as arranged.*
MRS. SWEETMAN

HORTICULTURE

PROFESSOR WARING; ASSISTANT PROFESSOR CLAPP;
ASSISTANT PROFESSOR RILEY

General Courses

2. GENERAL HORTICULTURE.—An introductory treatment of practices and related principles basic to the production of fruits, vegetables, and flowers, and to ornamental horticulture. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WARING

4. PLANT PROPAGATION.—Methods of propagating plants. Current literature on propagation is reviewed. A report on methods applicable to a particular branch of horticulture is required. †*Four hours a week. Two credit hours.* Given in 1936-37 and alternate years. MR. CLAPP

11, 12. PROBLEMS IN HORTICULTURE.—Open to upperclass students who manifest special interest and the capacity for individual effort. The consent of the instructor must be obtained in each case before registration. *Credit, arranged.* These courses may be repeated for credit.
MEMBERS OF THE DEPARTMENTAL STAFF

14. SUMMER PRACTICE.—Supervised practice in the gardens, greenhouses, nurseries, and orchards of the College. Short trips to specialized farms

and florists' establishments may be included, and a trip of approximately four days' duration to inspect horticultural enterprises and estates in Maine and other New England states. Four weeks, close of spring semester, junior year. *Four credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

51, 52. SEMINAR.—Critical reviews of literature in selected or assigned horticultural subjects, preparation of abstracts and papers, classroom presentation and discussion. Staff members and invited guests participate. *One or two hours a week* by arrangement. *One credit hour.* MR. WARING

54. PLANT PROPAGATION.—A continuation of Course 4 into more advanced phases of the subject. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Given in 1937-38 and alternate years. MR. CLAPP

Pomology

1. FRUIT HANDLING.—The commercial apple industry and its methods in Maine and competing regions, with minor attention to other tree fruits. Laboratory exercises include grading and packing and visits to commercial-scale orchards, packing houses, and storage plants. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WARING

9. FRUIT JUDGING.—The selection of fruit, chiefly apples, for exhibition, the identification of varieties, and judging. The intensive training should ordinarily lead to participation in an intercollegiate apple-judging contest. Open to any interested student. **Six hours a week,* first nine weeks. *One credit hour.* MR. WARING

53. SYSTEMATIC POMOLOGY.—A survey of the species and important cultivated varieties of fruits and nuts, emphasizing botanical status as well as pomological classification, distribution and use. Given in alternate years. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WARING

56. ADVANCED POMOLOGY.—An advanced treatment of principles and methods involved in the planting and management of orchards. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. WARING

Vegetable Gardening

10. SMALL FRUITS.—A consideration of varieties, cultural methods, and handling of such fruits as strawberries, grapes, raspberries, blackberries, and blueberries. *Three hours a week. Three credit hours.* MR. RILEY

20. Vegetable Gardening.—The best commercial practices; and the results of recent experimentation as applied to vegetable gardening. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

21. Vegetable Crops.—Includes harvesting, marketing, storage, and systematic study of types and varieties of vegetables; also care of vegetables for seed production. Prerequisite, Course 20. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

25. Vegetable Forcing.—Culture of vegetables under glass, types of greenhouses, special soil management problems involved, marketing. Prerequisite, Course 20. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

Floriculture and Ornamental Horticulture

3. Trees and Shrubs.—The plant materials used in landscape gardening, emphasizing identification, nomenclature, and the characteristics upon which their special values for the purpose are based. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* Mr. Clapp

5. Recreational Landscaping.—Materials and principles of landscape design with particular reference to recreational projects and roadside improvement. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Clapp

6. Landscape Gardening.—Principles of landscape design with particular reference to the home grounds. Observational trips to Bangor and Old Town may be required. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Clapp

7. Commercial Floriculture.—Principles underlying the production of flowers under glass; special consideration of methods for important cut-flower crops. One or more half-day trips in the Bangor area may be arranged. Prerequisite, Course 8. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Clapp

8. Home Floriculture.—The culture and care of garden flowers and house plants, and the use of flowers in the home. Open to any student. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Clapp

15. Landscape Gardening.—A continuation of Course 6 treating the development of irregular-surfaced areas, the farmstead, and large tracts; the design of recreational areas; and the professional phases of landscape archi-

tecture. A one-day trip to Mt. Desert Island is required. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.*

MR. CLAPP

Graduate Courses

101, 102. HORTICULTURAL INVESTIGATIONS.—*Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

103, 104. RESEARCH METHODS.—Application of scientific method and equipment to the solution of horticultural problems and preparation of manuscript for publication. *Usually, as arranged, two credit hours.*

MR. WARING

ALL DEPARTMENTS

SUMMER PROJECTS.—A student in the College of Agriculture desiring to carry out a field project during the summer recess under faculty direction may obtain credit for such work providing arrangement is properly made with the major department concerned and the project is successfully carried through to completion. Project work may be conducted during the summer recesses between the sophomore and junior years, and junior and senior years. Sophomore-Junior Project is designated Pj 2 and limited to one hour credit. Junior-Senior Project is designated Pj 4 and may be one, two, or three hours credit. Complete details concerning project work may be obtained from heads of departments in which major curricula are offered.

TWO-YEAR COURSE IN AGRICULTURE

The significance of a star (*) or a dagger (†) in the description of a course is explained on page 109.

First Year—Fall Semester

ANIMAL HUSBANDRY—DAIRY PRODUCTION.—A general survey of the field of dairy production and economic reasons for growth of the dairy industry. Breeds of dairy cattle, and their care, feed, and management. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

MR. HALL

Business Arithmetic.—A course in arithmetic based on the problems confronting the farmer in his business. *Two hours a week. Two credit hours.*
Mr. Loring

English.—Part of the time is devoted to a review of grammar and to the principles of effective writing, with attention also to spelling and punctuation. Weekly papers, chiefly expository, are required. *Two hours a week. Two credit hours.* Miss Snider

Farm Botany.—Plant structure and tissues in their relation to plant growth and development and to agricultural practices. Classroom, *one hour a week;* laboratory, *†two hours a week. Two credit hours.* Mr. Steinbauer

Farm Crops.—Practices in growing crops under field conditions. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.*
Mr. Raleigh

Forge Work.—Forging; welding; tool-steel work. **Three hours a week. One credit hour.* Mr. Davee

Fruit Handling.—Picking, packing, grading, storing, shipping, and marketing of fruit, particularly the apple. A survey is made of the principal apple producing regions and of the general status of the industry. A small amount of systematic study of fruits and some fruit judging are included. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* Mr. Riley

Poultry Husbandry.—Origin and development of types, breeds, and varieties of poultry; care, feed, and management; housing, breeding, incubation and brooding; and marketing poultry products. Laboratory practice in judging poultry and eggs, and in grading and packing eggs. Killing, picking, and packing poultry. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* Mr. Gardner

First Year—Spring Semester

Carpentry.—Graded exercises in woodworking designed to familiarize the student with tools used in modern woodworking practice and to give him experience in working from dimensioned drawings. *†Four hours a week. Two credit hours.* Mr. Swift

Dairy Husbandry—General Dairying.—Milk secretion and composition; testing of milk and milk products; sanitary production and handling of milk from farm to consumer; cream separation; and buttermaking. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.*
Mr. Davis

English.—A continuation of the work of the fall. *Two hours a week. Two credit hours.* Miss Snider

Farm Economics.—An elementary course in the principles of economics as applied to agriculture. The following subjects are considered: development of commercial agriculture, price making forces, production, land policies, farm credit, tariff, taxation, and agricultural organization. *Two hours a week. Two credit hours.* Mr. Merchant

Fruit Growing.—Principles and practices which should be followed in choosing an orchard site, and in the subsequent planting and culture, pest control, and other care leading to the production of profitable crops. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

Poultry Husbandry.—A continuation of the course given in the fall semester. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Gardner

Soils and Fertilizers.—Properties, management, and fertilization of soils in relation to fitting them for production of crops. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* Mr. Chucka

Second Year—Fall Semester

Animal Husbandry—General Animal Husbandry.—Breeds, and care, feed, and management of horses, beef cattle, sheep, and swine. Laboratory work in judging horses, sheep, and swine. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Hall

Animal Husbandry—Common Diseases of Farm Animals.—A general course including anatomy, physiology, hygiene, and sanitation. Methods for the prevention and control of the common diseases of domestic animals are given special attention. *Three hours a week. Three credit hours.* Mr. Witter

English.—Instruction in practical uses of English, including business correspondence, with as much review of grammar as seems necessary. *Two hours a week. Two credit hours.* Mr. Moreland

Farm Engineering and Mechanics.—Running farm lines, laying out drainage systems, and planning farm buildings and conveniences. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

Farm Insects.—A practical study of insects in their economic relationships to farm plants and farm animals. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* Mr. Dirks

Farm Management.—Factors that affect the profitable operation of the farm as a business unit including size of business; labor efficiency; crop rotation; farm layout; and production costs. Individual farming systems are studied. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Jones

Poultry Husbandry—Poultry Management.—A general consideration of poultry management with especial reference to sanitation and disease. *Two hours a week. Two credit hours.* Mr. Gardner

Vegetable Growing.—Production of vegetables for home use. Important commercial vegetables of New England. Handling of forcers, growing of seedlings, marketing, and other topics are included in as much detail as time will permit. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* Mr. Riley

Second Year—Spring Semester

Animal Husbandry—Feeding Live Stock.—General principles underlying feeding of live stock; composition and characteristics of feed stuffs; calculating rations; and the best practices in feeding farm animals. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* Mr. Hall

English.—A continuation, including reports, abstracts, and oral composition based on agricultural material. *Two hours a week. Two credit hours.* Mr. Moreland

Farm Crops.—Grass and forage plants, their culture and uses. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Raleigh

Farm Machinery.—A course given to acquaint the student with the machinery adapted to farm use. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Swift

Marketing Farm Products.—A course dealing with the economic problems in marketing farm products, with particular attention given to marketing Maine products, such as dairy and poultry products, apples, and potatoes. Time is also given to a study of the principles and methods of coöperative marketing. *Three hours a week. Three credit hours.* Mr. Merchant

Forestry.—The general principles of forestry with special reference and application to the farm woodlands, particularly in this region. Lectures and textbook work in elementary systems of cutting, estimating, protection, and reforestation. *Two hours a week. Two credit hours.* Mr. Chapman

Small Fruit Culture and Plant Propagation.—Strawberries, raspberries, blackberries, blueberries, cranberries, grapes, and some other fruits of minor importance in the State. Production and disposal of the crops are considered. Instruction is given in general propagation of plants. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

Mr. Riley

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in agriculture and forestry who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section, General Courses.

College of Arts and Sciences

FACULTY OF INSTRUCTION

James Muilenburg, Ph.D., *Dean*
James Norris Hart, C.E., Sc.D., Ph.D., *Professor of Mathematics and Astronomy*
John Homer Huddilston, Ph.D., *Professor of Ancient Civilization and Lecturer on Art History*
George Davis Chase, Ph.D., LL.D., *Professor of Classics*
Roy Merle Peterson, Ph.D., *Professor of Romance Languages*
Robert Rutherford Drummond, Ph.D., *Professor of German*
Harley Richard Willard, Ph.D., *Professor of Mathematics and Astronomy*
John H Ashworth, Ph.D., *Professor of Economics and Sociology*
Milton Ellis, Ph.D., *Professor of English*
Albert Lewis Fitch, Ph.D., *Professor of Physics*
Mark Bailey, A.M., *Professor of Public Speaking*
Charles Alexius Dickinson, Ph.D., *Professor of Psychology*
†Olin Silas Lutes, Ph.D., *Professor of Education*
Ronald Bartlett Levinson, Ph.D., *Professor of Philosophy*
Adelbert Wells Sprague, A.M., *Professor of Music*
Joseph Magee Murray, Ph.D., *Professor of Zoology*
*Bertrand French Brann, S.M., *Associate Professor of Chemistry*
†Ava Harriet Chadbourne, Ph.D., *Associate Professor of Education*
Albert Ames Whitmore, M.A., *Associate Professor of History and Government*
Noah Rosenberger Bryan, Ph.D., *Associate Professor of Mathematics*
Albert Morton Turner, Ph.D., *Associate Professor of English and Comparative Literature*
Maynard Fred Jordan, M.A., *Associate Professor of Mathematics and Astronomy*
Charles Burton Crofutt, Ph.D., *Associate Professor of Physics*
George William Small, Ph.D., *Associate Professor of English*

*Member of the faculty of the College of Technology.
†Member of the faculty of the School of Education.

Edward French Dow, Ph.D., *Associate Professor of History and Government and Head of the Department*
Stanley Royal Ashby, Ph.D., *Associate Professor of English*
Walter Whitmore Chadbourne, Ph.D., *Associate Professor of Economics and Sociology*
Edward Newcomb Brush, Ph.D., *Associate Professor of Psychology*
George Baer Fundenburg, Ph.D., *Associate Professor of Romance Languages*
*Lyle Clayton Jenness, M.S., *Associate Professor and Acting Head of the Department of Chemistry and Chemical Engineering*
Warren Stanhope Lucas, M.A., *Assistant Professor of Mathematics*
Frances Elizabeth Arnold, M.A., *Assistant Professor of Romance Languages*
Marion Stephanie Buzzell, M.A., *Assistant Professor of Romance Languages*
William Francis Scamman, M.A., *Assistant Professor of English*
Himy Benjamin Kirshen, A.M., *Assistant Professor of Economics and Sociology*
Ruth Crosby, Ph.D., *Assistant Professor of English*
Alfred Carleton Andrews, Ph.D., *Assistant Professor of Classics*
Howard Lloyd Flewelling, Ph.D., *Assistant Professor of English*
Evelyn Faye Wilson, Ph.D., *Assistant Professor of History and Government*
Edith Elizabeth Mortensen, M.A., *Assistant Professor of Zoology*
John Frederick Klein, Ph.D., *Assistant Professor of German*
Charles Earl Packard, S.M., *Assistant Professor of Zoology*
Clarence Edwin Bennett, Ph.D., *Assistant Professor of Physics*
Donald MacLean Purdy, Ph.D., *Assistant Professor of Psychology*
Frederick Eugene Melder, M.A., *Assistant Professor of Economics and Sociology*
Herschel Leonard Bricker, M.A., *Assistant Professor of Public Speaking*
Arthur Eugene Jensen, Ph.D., *Assistant Professor of English*
Rising Lake Morrow, Ph.D., *Assistant Professor of History and Government*
Herbert Day Lamson, Ph.D., *Assistant Professor of Economics and Sociology*
Percie Hopkins Turner, Ph.D., *Lecturer in English*
Lillian Hatfield Brush, Ph.D., *Lecturer in Psychology*
Herman Samuel Silverman, M.A., *Instructor in Mathematics*
John Emmons Stewart, M.A., *Instructor in Mathematics*

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*Member of the faculty of the College of Technology.

Fred Lincoln Lamoreau, M.A., *Instructor in Mathematics and Astronomy*
James Moreland, M.A., *Instructor in English*
*Delyte Wesley Morris, M.A., *Instructor in Public Speaking*
Carl Munro Flynn, M.A., *Instructor in Zoology*
Richard Wilder Merrill, M.A., *Instructor in German*
Edwin Kenneth Miles, Ph.D., *Instructor in German*
Elven Clifford Nelson, Sc.D., *Instructor in Zoology*
Karl Davis Larsen, Ph.D., *Instructor in Physics*
Gaylord Clark LeRoy, Ph.D., *Instructor in English*
Claude Louis Bourcier, L. ès L., Agrégé des Lettres, *Instructor in Romance Languages*
Spencer Franklin Brown, M.A., *Instructor in Public Speaking*
Frank Joseph Lewand, M.A., *Instructor in Economics and Sociology*
George Edgar McReynolds, M.A., *Instructor in History and Government*
Cecil John Reynolds, M.A., *Instructor in English*
Walter Reginald Whitney, M.A., *Instructor in English*
Howard Lewis Mendall, B.A., *Assistant in Zoology*
Alden Parker Cleaves, M.A., *Assistant in Physics*
Rose Snider, B.A., *Graduate Assistant in English*

PURPOSE

In an age which stresses the utilitarian and so-called practical interests of education, the College of Arts and Sciences reasserts its cultural objectives, its efforts to preserve the best that the past has bequeathed us, and its attempts to enrich and enhance human living. Our time calls preëminently for men and women of critical intelligence, broad and sympathetic understanding of human needs, and determination of purpose. The College of Arts and Sciences seeks, therefore, to train and inspire loyal and competent citizens to meet the demands of the present crisis in history, and to enrich, within the limits of their ability and opportunity, the life of their respective communities.

In addition to the obvious value of the social sciences in meeting contemporary needs the College recognizes as indispensable the disinterested pursuit of knowledge and the free play of the mind in the region of literature and the other arts. It believes that no adequate and enduring human progress can be achieved if any essential part of human nature remains undeveloped.

Specifically, the College of Arts and Sciences conceives its task in terms of the particular needs of the various classes of students whose interest it

*On leave of absence, 1935-36.

seeks to serve. It offers, for example, a specific curriculum to those who contemplate entering the professional schools of medicine, dentistry, law, government, business, social work, and the arts. In collaboration with the School of Education, it offers specific training to prospective teachers.

In all cases, however, the College aims both at the production of useful skills and techniques and at the training of men and women who may be able and willing to turn their training toward socially desirable ends.

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. Graduates of Maine normal schools who are also graduates of an approved high school will receive sophomore standing.

The regular admission requirements will be applied to all students who enter with advanced standing. Students must make up all entrance requirements before registering as juniors. Those who transfer from other colleges must make them up within a year.

GRADUATION REQUIREMENTS

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.

Every candidate for the Bachelor of Arts degree is required to complete a basic course in English, in social science, and in mathematics and natural science. He is also required to elect a foreign language until he has passed a reading test satisfactorily. Seven hours of Military Science are required of all men students. All women students in the college take in their freshman year Elementary Hygiene, for which two credits are given. This work may not be counted toward the fulfillment of the science requirement. In addition, two years' work in Physical Training is required of all students without credit.

Eighteen to twenty-four hours must be completed in the major subject during the last two years. Ninety-five of the hours required for graduation and three-fourths of the work in the major subject must be completed with a grade of C or above. If a student transfers from another institution, three-fourths of all work done after transferring must be passed with a grade of C or better. Grades below C are not accepted from other institutions.

Students who transfer to this college from other colleges of the University are required to complete 95 hours of C grade or better for graduation. They will 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 year's 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 the Department of Zoology.

FOREIGN LANGUAGE

If education is to be in any true sense liberal, it is necessary that a student should have living contact with some culture other than his own. He can in no better way gain a sympathetic understanding of another culture than through the medium of the language used by its best writers. For this reason every student in the College of Arts and Sciences is required before graduating to demonstrate that he has mastered one foreign language well enough to be able to read and understand it with some ease. It is recommended that the student, unless he has special reasons, continue with a language which he has already studied in high school. If he has settled upon his major subject when he enters the University, he should ascertain the specific language preference in that field. Students entering with three years of French or four years of Latin normally meet the requirement by completing an additional year in either of these languages. In general, whatever the choice, it is expected that the requirement will be met before the beginning of the third year. Courses in language should be taken continuously until the examination has been passed.

THE FIRST TWO YEARS

The first two years of the student's college course constitute a unified period. On the one hand, they are in a very real sense a continuation of his preparatory school training and have the same general purpose of providing him some familiarity with the general streams of human knowledge, a broad and firm foundation of culture, and an adequate background for an understanding and appreciation of the needs of his community as well as competence to participate intelligently in its varied life. On the other hand, the first two years reach out toward the period of concentration with which the last two years are primarily occupied. They are designed to help the student to see his chosen field in perspective, but they also seek to give him the necessary

preparation for undertaking the studies of a distinctly advanced nature. In brief the first two years are definitely exploratory. Their objective is dispersion rather than concentration, intelligence over an extended area of knowledge rather than proficiency in one particular region.

With these general principles in mind, freshmen are expected to elect courses from each of the following groups:

I. English. English 1 and English 2 or 18 are definitely required unless the student is admitted by the department to a more advanced course.

II. Foreign Language: Greek, Latin, French, Spanish, Italian, German. Students who pass a reading test in a foreign language may be excused from this requirement.

III. Social Studies: American History, Ancient Civilization, European History, Masterpieces of Art, and Introduction to the Social Sciences.

IV. Natural Science and Mathematics: The requirements in this division may be satisfied by electing Chemistry 1, 2; Geology 13, 14; 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; Physics 3 and Astronomy 10; Zoology 1 and Botany 2, or Zoology 3, 4.

Military Science and Physical Training are required of all men unless they are physically disqualified. Physical Education and Hygiene must be taken by all women. For those students taking Military Science or Hygiene the maximum registration is fifteen hours *exclusive* of these two subjects; for others the maximum registration is sixteen hours. Individual guidance is given to all freshmen in the selection of their courses.

During the sophomore year the student continues his general interest in exploration, but he naturally becomes more definitely concerned over the selection of his major subject. He should, therefore, add at least two new major fields of learning to those taken during the freshman year. This should insure for him some likelihood of a wise decision regarding his field of concentration because he will have had some experience in at least four different fields. Not more than six hours may normally be taken in one subject in either semester of the sophomore year. At the same time it is frequently wise to take more than one course in a prospective major subject, in order to test one's actual interest and to satisfy preliminary requirements for advanced work.

During the first two years a student must show evidence of ability to pursue upper-division courses successfully. Work of C grade or above will be interpreted as satisfactory. *Students with records consistently below this standard will be advised to withdraw from the University at the end of their sophomore year.*

Throughout the freshman and sophomore years the student is under the general supervision of the Dean of the College.

THE LAST TWO YEARS

At some time during the second semester of the sophomore year, the student, in conference with the Dean, selects his major subject or field of chief academic interest, and outlines with his major adviser a tentative curriculum for his two remaining years. This special field is chosen without reference to departmental boundaries, though it may coincide with some department or special curriculum in the College. The department in which the major subject chiefly falls becomes for administrative purposes the student's major department, and the head of that department is his major instructor. The latter is responsible for the student before the faculty and must approve the student's registration.

At the same time the student selects his major adviser. This is regularly either the major instructor or another member of the department whom he and the student agree upon, subject to the approval of the Dean. Besides assisting the student in outlining his curriculum, the major adviser also directs his pursuit of it, recommends or approves all changes made in it, and acts as the student's registering officer.

The major curriculum is the nucleus of related courses selected by the student as representing his chief field of interest or major subject. It is restricted to a maximum of twenty-four and a minimum of eighteen hours in the junior and senior years, but it is expected that the remaining courses will be chosen with reference to their affinity with it, except as certain otherwise unrelated courses are recognized as desirable for all students on account of their cultural or practical value. No elementary or introductory courses may be included in the major curriculum, though such exploratory courses may be taken, with the major adviser's approval. In general it is assumed that upperclass students will be engaging themselves with courses of an advanced nature which will toughen their intellectual fibre and furnish a real test of their abilities.

Seniors shall be required to continue work in their major subject through their senior year.

COMPREHENSIVE EXAMINATIONS

In the spring semester of the senior year major students in many of the departments take a comprehensive examination in their major subject. The purpose of this examination is to provide the student with an opportunity to demonstrate his knowledge of the salient features of his general field of study. It aims to make clear the unity of the field as a whole. It seeks definitely to counteract the easy tendency to separate courses from one another. It is,

therefore, designed in such a way as to develop perspective and to encourage organization of materials as well as accuracy and range of knowledge. The student is thus able to evaluate his ability in the field of his major interest and to make a smooth transition to his professional and graduate work.

PROGRAM FOR SECONDARY SCHOOL TEACHERS LEADING TO A STATE CERTIFICATE

The College of Arts and Sciences 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 in Education in the junior and senior years, thirty approved hours in a major subject, and from fifteen to twenty approved hours in a minor field. The work in the minor field must have the approval of the heads of the departments in which this work falls as well as the head of the School of Education before the student will be recommended for certification in this field.

The prescribed work in Education includes three hours in the History of Education, three hours in Methods of Teaching, two hours in Educational Measurements, and four hours to be elected. As much as three hours in special methods courses given by other departments may be counted as part of the twelve hours required in Education.

The selection of major and minor subjects is designed to equip the student for teaching two or more subjects which are commonly taught together in the high school. Usual combinations are mathematics and science, French and Latin, English and history, English and French, history and Latin, English and Latin, and French and history. For the completion of this program a high standard of scholarship is required. All the prescribed work, including major and minor subjects, must be of C grade or above. Upon completing this work the student will be recommended to the State Department of Education for a Professional Secondary Certificate, which will designate the major and minor subjects which he has pursued.

BANGOR THEOLOGICAL SEMINARY

Students in the College of Arts and Sciences have the privilege of registering for courses in Bangor Theological Seminary not to exceed five credit

hours per semester, without payment of tuition charges, and a like privilege is extended by the College to students in the Seminary. The courses for which students may register must be approved by the Dean of the College, the President of the Seminary, and the instructors in the subjects concerned in both institutions. Such work may be counted toward graduation; but in order to avoid duplication of credits it is understood that all courses at the University of Maine which have been used by Seminary students for graduation credit at the Seminary, shall be cancelled at the University in case the student is admitted to junior standing as a candidate for the Bachelor of Arts degree.

TUTORIAL HONORS

A course in Tutorial Honors is open to superior students who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section General Courses.

SPECIMEN CURRICULA

The following outlines of specimen curricula will provide the student with a general idea of the character of preparation recommended for various professions. They are suggestive and tentative rather than fixed or prescribed. The student's own interests and aptitudes will naturally determine to some extent his choice of subjects. Though only a few of the more important curricula in the College of Arts and Sciences are here given, there are a large number of others which may be procured by writing to the Dean of the College.

Specimen Major Curriculum for Premedical Studies

FRESHMAN YEAR

Fall Semester			Hrs.	*Spring Semester*			Hrs.
Eh	1	English	3	Eh	2	English	3
Gc	1	Introd. to the Social Sciences	3	Gc	2	Introd. to the Social Sciences	3
*Gm	1	German	5	*Gm	2	German	5
Mt	1	Military Training	1½	Mt	2	Military Training	1½
Pt	1	Physical Education	—	Pt	2	Physical Education	—
†Zo	3	Animal Biology	4	†Zo	4	Animal Biology	4

SOPHOMORE YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Ch 1 General Chemistry	4	Ch 2 General Chemistry	4
Gm 3 German	3	Gm 4 German (‡Gm 16, Scientific German)	3-2
Ms 1, 3 Trigonometry, College Algebra (or an approved elective)	4	Ms 6 Analytic Geometry (or an approved elective)	4
Mt 3 Military Training	2	Mt 4 Military Training	2
Pt 3 Physical Education	—	Pt 4 Physical Education	—
Zo 15 Comparative Anatomy	4	Zo 16 Comparative Anatomy	4

JUNIOR YEAR

	Hrs.		Hrs.
Ch 51 Organic Chemistry	5	Ch 52 Organic Chemistry	5
Eh 3 History of English Literature (or Eh 7 or an approved elective)	3	Eh 4 History of English Literature (or Eh 8 or an approved elective)	3
Ps 1 General Physics	5	Ps 2 General Physics	5
Py 1 General Psychology	3	Py 2 General Psychology	3

SENIOR YEAR

	Hrs.		Hrs.
Bt 45 Genetics (or Social Science)	3	Ch 40 Quantitative Analysis	4
Ch 31 Qualitative Analysis	5	Elective (preferably Social Science)	3-5
Zo 37 Physiology	4	Zo 18 Vertebrate Embryology	3
Zo 41 Histology	3	Zo 38 Physiology	4

* Two years of a modern foreign language, preferably German, are usually required for medical school admission, and should lead to a reading knowledge of the subject.

† Candidates who plan to enter medical school in two years and those who have a special interest in chemistry should take General Chemistry during the first year, with or without General Zoology. To fulfill the requirements of the American Medical Association, Organic Chemistry and Physics must be taken the second year. These, together with Comparative Anatomy or General Zoology, if the latter were not taken the first year,

make a very heavy program. A four-year program leading to a B.A. degree is thus desirable and in most cases necessary. Candidates for admission to medical school should therefore be familiar with the requirements of several medical schools before planning their first-year program.

‡ With the permission of the German Department.

Specimen Major Curriculum for Pre-Legal Studies

FRESHMAN YEAR

Fall Semester		Hrs.	*Spring Semester*		Hrs.
Eh 1	Freshman Composition	3	Eh 2	Freshman Composition	3
Hy 3	United States History	3	Hy 4	United States History	3
Mt 1	Military Training	1½	Mt 2	Military Training	1½
Pt 1	Physical Education	—	Pt 2	Physical Education	—
	Foreign language	3-5		Foreign language	3-5
	Natural Science (preferably Zoology)	4		Natural Science (preferably Zoology)	4

SOPHOMORE YEAR

		Hrs.			Hrs.
Eh 7	Second-Year Composition	3	Eh 8	Second-Yr. Composition	3
Es 1a	Principles of Economics	3	Es 2a	Principles of Economics	3
Gt 31	American Government	3	Gt 32	American Government	3
Mt 3	Military Training	2	Mt 4	Military Training	2
Pt 3	Physical Education	—	Pt 4	Physical Education	—
	Elective (*Language or science)	3-4		Elective (*Language or science)	3-4

JUNIOR YEAR

		Hrs.			Hrs.
Eh 3	History of English Literature	3	Eh 4	History of English Literature	3
Hy 17	History of England	3	Hy 18	History of England	3
Pl 3	History of Philosophy (or Es 9, Accounting)	3	Pl 4	History of Philosophy (or Es 10, Accounting)	3
Sy 41	Principles of Sociology	3	Sy 42	Principles of Sociology	3
	Elective (Hy 5, 67 or Gt 35, 51, 73)	3		Elective (Hy 6, 68 or Gt 34, 36, 74)	3

SENIOR YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Eh 57 Shakespeare	3	Eh 58 Shakespeare	3
Es 9 Accounting (or Pl 3, History of Philosophy)	3	Es 10 Accounting (or Pl 4, History of Philosophy)	3
Es 71 Public Finance	3	Gt 100 Political Theory	3
Gt 99 Political Theory	3	Pb 4 Debating	2
Pb 3a Public Speaking	2	Pl 8 Logic	2
Elective (History or Government)	3	Elective (History or Government)	3

* To be continued until the student has passed his language test.

Specimen Major Curriculum for Business Studies

FRESHMAN YEAR

	Hrs.		Hrs.
Eh 1 Freshman Composition	3	Eh 2 Freshman Composition	3
Hy 3 United States History	3	Hy 4 United States History	3
Mt 1 Military Training	1½	Mt 2 Military Training	1½
Pt 1 Physical Training	—	Pt 2 Physical Training	—
Zo 3 Animal Biology, or Ms 1, 3 Trigonometry and College Algebra, Ch 1, General Chemistry, Ps 1, General Physics)	4-5	Zo 4 Animal Biology (or Ms 6, Analytic Geometry, Ch 1, General Chemistry, Ps 1, General Physics)	4-5

SOPHOMORE YEAR

	Hrs.		Hrs.
Es 1a Principles of Economics	3	Es 2a Principles of Economics	3
Es 9 Accounting	3	Es 10 Accounting	3
Mt 3 Military Training	2	Mt 4 Military Training	2
Pt 3 Physical Training	—	Pt 4 Physical Training	—
Py 1 General Psychology	3	Py 2 General Psychology	3
*Foreign language (or Eh 3, History of English Literature)	3	*Foreign language (Eh 4, History of English Literature)	3
		Pb 2 Public Speaking	2

JUNIOR YEAR

Fall Semester		Hrs.	*Spring Semester*		Hrs.
Eh 7	Second-Year Composition	3	Eh 8	Second-Yr. Composition	3
Es 51	Corporation Finance (or Es 57, Insurance)	3	Es 52	Social Control of Industry	3
Es 53	Money and Banking	3	Es 54	Investments and Investment Banking (or Es 58, Insurance)	3
Gt 31	American Government	3	Gt 32	American Government	3
Ms 17	Mathematical Theory of Investments (or Ms 19, Theory of Statistics)	2	Ms 18	Mathematical Theory of Investments (or Ms 20, Theory of Statistics)	2
	Elective: Es 59, Modern Economic Movements, Sy 41, Principles of Sociology, Hy 59, Social and Industrial History of England	3		Elective: Es 60, Social Legislation, Sy 42, Principles of Sociology, Hy 60, Social and Industrial History of England	3

SENIOR YEAR

		Hrs.			Hrs.
Es 55	Business Law	3	Es 56	Business Law	3
Es 71	Public Finance	3	Es 72	Labor Problems	3
Es 91	Development of Economic Thought	2	Es 92	Development of Economic Thought	2
Hy 35	Principles and Problems of Government (or Gt 51, Public Administration, or Py 75, Social Psychology)	3	Gt 34	Municipal Government and Administration (or Gt 36, European Government)	3
Ms 19	Theory of Statistics (or Ms 17, Mathematical Theory of Investments)	2	Ms 20	Theory of Statistics (or Ms 18, Theory of Investment)	2
			Pl 10	Ethics	2

* To be continued until the student has passed his reading test.

Curriculum in Creative Writing or Journalism

FRESHMAN YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Eh 1 *Freshman Composition* (or Eh 11, Freshman Literature and Composition)	3	Eh 2 *Freshman Composition* (or Eh 12 or 18, Freshman Literature and Composition or Freshman Literature)	3
Hy 5 European History (or Hy 3, United States History)	3	Hy 6 European History (or Hy 4, United States History)	3
Foreign language (German or French preferred)	5-3	*Foreign language* (German or French preferred)	5-3
Mt 1 *Military Training* (Zo 5, Hygiene, women)	1½-2	Mt 2 *Military Training* (Pb 2 or 26a, Public Speaking or Theatre, women)	1½-2
Natural Science (Zo 3, Biology preferred)	4	*Natural Science* (Zo 4, Biology preferred)	4
Pt 1 Physical Education	—	Pt 2 Physical Education	—

SOPHOMORE YEAR

	Hrs.		Hrs.
Eh 3 *History of English Literature* (or Eh 43), American Literature for Eh 11 students)	3	Eh 4 *History of English Literature* (or Eh 44, American Literature for Eh 12 students)	3
Eh 7 *Second-Year Composition* (Essay)	3	Eh 8 Second-Year Composition (Narrative)	3
Es 1a Principles of Economics (or Hy 3 or Hy 5)	3	Es 2a Principles of Economics (or Hy 4 or Hy 6)	3
*Foreign language or elective	3	*Foreign language or elective	3
Mt 3 Military Training (or Mc 3, Music Appreciation)	2	Mt 4 Military Training (or Mc 4, Music Appreciation)	2
Pt 3 Physical Education	—	Pt 4 Physical Education	—
Py 1 General Psychology	3	Py 2 General Pyschology	3

JUNIOR YEAR

Fall Semester	Hrs.	*Spring Semester*	Hrs.
Eh 23 *News Writing (or Eh 77a, b, c, or d Creative Writing)*	3	Eh 26 *Newspaper in the 20th Century (or Eh 78a, b, c, d Creative Writing)*	3
Eh 45 Contemporary Literature (American) or Eh 43, American Literature	3	Eh 46 Contemporary Literature (or Eh 44, American Literature)	3
Gt 31 American Government	3	Gt 32 American Government	3
Sy 41 Principles of Sociology	3	Sy 42 Principles of Sociology	3
Elective	3-4	Elective	3-4

SENIOR YEAR

	Hrs.		Hrs.
Eh 25 Journalistic Writing (or Eh 77e, Feature Writing	3	Eh 28 Mechanics of Editing (or Eh 20, Country Newspaper or Eh 78a, b, c, d, e, Creative Writing)	3
Eh 57 Shakespeare	3	Eh 58 Shakespeare	3
Es 55 Business Law	3	Es 56 Business Law	3
Pl 3 History of Philosophy	3	Pl 4 History of Philosophy	3
Elective	3	Elective	3

* To be continued until the student has passed his language test.

Considerable flexibility is permitted as to the election and sequence of courses, except that those in italics should be taken in the years indicated.

Specimen Major Curriculum for Pre-Professional Training in Social Work

FRESHMAN YEAR

	Hrs.		Hrs.
Eh 1 Freshman Composition	3	Eh 2 Freshman Composition	3
Foreign language	3-5	Foreign language	3-5
Hy 5 Survey of Western Europe	3	Hy 6 Survey of Western Europe	3
Mt 1 Military Training	1½	Mt 2 Military Training	1½
Pe 1 Physical Education	—	Pe 2 Physical Education	—
Zo 3 Animal Biology	4	Zo 4 Animal Biology	4
Zo 5 Hygiene (girls)	2	Pb (2) Public Speaking	2

SOPHOMORE YEAR

Fall Semester		Hrs.	*Spring Semester*		Hrs.
Eh 7	Second-Year Composition	3	Eh 8	Second-Yr. Composition	3
Es 1	Principles of Economics	3	Es 2	Principles of Economics	3
Gt 31	American Government	3	Gt 32	American Government	3
Mt 3	Military Training	1½	Mt 4	Military Training	1½
Pe 3	Physical Education	—	Pe 4	Physical Education	—
Py 1	General Psychology	3	Py 2	General Pyschology	3
Sy 41	Principles of Sociology	3	Sy 42	Principles of Sociology	3
	*Foreign language			*Foreign language	

JUNIOR YEAR

		Hrs.			Hrs.
Eh 3	History of English Literature	3	Eh 4	History of English Literature	3
Gt 35	Principles and Problems of Government	3	Es 72	Labor Problems	3
Mc 3	Music Appreciation	2	Mc 4	Music Appreciation	2
Pl 3	History of Philosophy (or Py 75, Social Psychology)	3	Pl 4	History of Philosophy	3
Sy 61	Social Pathology (Poverty)	3	Sy 62	Social Pathology (Criminology)	3
Sy 81	Family	2	Sy 82	Family	2

SENIOR YEAR

		Hrs.			Hrs.
Es 71	Public Finance	3	Es 60	Social Insurance	3
Gt 51	Public Administration	3	Gt 34	Municipal Government and Administration	3
He 11	Household Management	4	He 14	Pre-school Child	3
Py 71	Abnormal Psychology	3	Py 72	Mental Hygiene	3
Sy 87	Social Evolution and Social Change	2	Sy 88	Population and Race Problems	2
Sy 97	Sociology Seminar	2	Sy 98	Sociology Seminar	2

* Foreign language is to be elected in place of one of the foregoing courses if the reading test has not been passed.

Courses of Instruction

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 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis.

INTRODUCTION TO THE CURRICULUM

The tabular arrangement of courses given on the following page serves to give the student a general view of the academic organization of the College of Arts and Sciences. All graphic representations are to some extent arbitrary and misleading, yet our tabulation may help the student to observe the general outline of academic interests in the College as well as something of the affinity which the various subjects bear to one another. It is obvious at once, for example, that languages and literature belong to one group, but one gains some realization of the inter-relationship of languages and the scope of linguistic study by noting how the ancient languages are followed by the modern languages and these in turn by Comparative Literature and English with its various applications. The importance of arrangement is equally great, if not so readily apparent, in the case of the other divisions. Growing familiarity wth these fields will make it increasingly clear that one subject by its very nature passes inevitably into another. The entering student will do well to study this table in making his first general acquaintance with the curriculum as a whole. The upperclassman will occasionally wish to view his education in a perspective beyond that of his own previous academic experience. It is hoped that this table will act sometimes as a corrective for too specialized training, sometimes as a visual demonstration of the essential unity of all knowledge, sometimes as a device for calling attention to intimate cultural and intellectual relationships.

of celestial objects, and work in the observatory. Open to all students. *Three hours a week.* MR. JORDAN

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. Open to students who have taken Mathematics 1 and 3. *Two hours a week* with additional hours for observation.

MR. JORDAN, MR. LAMOREAU

15, 16. GENERAL ASTRONOMY.—Designed for students in mathematics and physics and others wishing a more complete treatment of the subject than is possible in Course 10. Recitations, lectures, solution of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. Given in 1935-36 and alternate years. *Three hours a week.* MR. JORDAN

59, 60. PRACTICAL ASTRONOMY.—The theory and use of the astronomical transit, zenith telescope, and equatorial; accurate determination of time and latitude. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10 or 15. Given in 1936-37 and alternate years. *Three hours a week.* MR. JORDAN

BIBLICAL LITERATURE

DEAN MUILENBURG

51, 52. THE LITERATURE AND RELIGION OF THE ANCIENT HEBREWS.—A study of the development of Hebrew literature and religion in the light of its historical background, social environment, and literary form. The work is based upon a direct examination of the Bible itself. *Three hours a week.*

CHEMISTRY

PROFESSOR BRAUTLECHT; ASSOCIATE PROFESSOR BRANN; ASSOCIATE PROFESSOR JENNESS; ASSISTANT PROFESSOR OTTO; ASSISTANT PROFESSOR GILLILAND; MR. OSBORN; MR. BOGAN; MR. TOMLIN; MR. MARTIN

Chemistry is a natural physical science which has to do with substances and their changes. It is an experimental science and is closely associated with our modern civilization and our economic life. Educationally, its objective

is to furnish some understanding of the substances which make up the earth, air, and animal and plant products, and of the changes associated with such substances. It is applied to industry, agriculture, food, clothing, shelter, and health and disease. An adequate knowledge of chemistry is required in the study of modern medicine, and analytical chemistry is frequently recommended in the preparation for the study of law. Thus the fundamentals of this science are applicable to many spheres of human interest and, in general, aid in providing some foundation for the enrichment of life.

Students taking chemistry as a major subject in the College of Arts and Sciences must complete satisfactorily Courses 1, 2, 31, 40, 51, 52, 71 and 72. Some biological science is required, also some mathematics and physics.

1, 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Lecture, *one hour a week;* recitation, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.*

Mr. Jenness and Members of the Departmental Staff

1a, 2a. General Chemistry.—A course similar to Course 1, 2, but for students who have not submitted units in chemistry for entrance requirements. Lecture and recitation, *three hours a week* (the second recitation period is optional for those students doing satisfactory work); laboratory, *four hours a week.* One breakage card. *Four credit hours.* Equivalent to 1, 2.

Mr. Jenness and Members of the Departmental Staff

31. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principles of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. Lectures and recitations, *three hours a week to mid-semester and one hour a week thereafter;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* Mr. Otto

37. History of Chemistry.—The origin, development, and applications of the more important chemical theories and principles. Prerequisite, Course 1, 2. Recitation, *two hours a week in second half-semester only. One credit hour.* Mr. Gilliland

40. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 31. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Otto

42. Chemical and Engineering Computations.—Computation procedures employed by chemists and chemical engineers, including use of slide rule and logarithms. Lectures and recitations, *two hours a week. Two credit hours.* Mr. Otto

of celestial objects, and work in the observatory. Open to all students. *Three hours a week.* MR. JORDAN

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. Open to students who have taken Mathematics 1 and 3. *Two hours a week* with additional hours for observation.

MR. JORDAN, MR. LAMOREAU

15, 16. GENERAL ASTRONOMY.—Designed for students in mathematics and physics and others wishing a more complete treatment of the subject than is possible in Course 10. Recitations, lectures, solution of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. Given in 1935-36 and alternate years. *Three hours a week.* MR. JORDAN

59, 60. PRACTICAL ASTRONOMY.—The theory and use of the astronomical transit, zenith telescope, and equatorial; accurate determination of time and latitude. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10 or 15. Given in 1936-37 and alternate years. *Three hours a week.* MR. JORDAN

BIBLICAL LITERATURE

DEAN MUILENBURG

51, 52. THE LITERATURE AND RELIGION OF THE ANCIENT HEBREWS.—A study of the development of Hebrew literature and religion in the light of its historical background, social environment, and literary form. The work is based upon a direct examination of the Bible itself. *Three hours a week.*

CHEMISTRY

PROFESSOR BRAUTLECHT; ASSOCIATE PROFESSOR BRANN; ASSOCIATE PROFESSOR JENNESS; ASSISTANT PROFESSOR OTTO; ASSISTANT PROFESSOR GILLILAND; MR. OSBORN; MR. BOGAN; MR. TOMLIN; MR. MARTIN

Chemistry is a natural physical science which has to do with substances and their changes. It is an experimental science and is closely associated with our modern civilization and our economic life. Educationally, its objective

is to furnish some understanding of the substances which make up the earth, air, and animal and plant products, and of the changes associated with such substances. It is applied to industry, agriculture, food, clothing, shelter, and health and disease. An adequate knowledge of chemistry is required in the study of modern medicine, and analytical chemistry is frequently recommended in the preparation for the study of law. Thus the fundamentals of this science are applicable to many spheres of human interest and, in general, aid in providing some foundation for the enrichment of life.

Students taking chemistry as a major subject in the College of Arts and Sciences must complete satisfactorily Courses 1, 2, 31, 40, 51, 52, 71 and 72. Some biological science is required, also some mathematics and physics.

1, 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Lecture, *one hour a week;* recitation, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.*

Mr. Jenness and Members of the Departmental Staff

1a, 2a. General Chemistry.—A course similar to Course 1, 2, but for students who have not submitted units in chemistry for entrance requirements. Lecture and recitation, *three hours a week* (the second recitation period is optional for those students doing satisfactory work); laboratory, *four hours a week.* One breakage card. *Four credit hours.* Equivalent to 1, 2.

Mr. Jenness and Members of the Departmental Staff

31. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principles of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. Lectures and recitations, *three hours a week to mid-semester and one hour a week thereafter;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* Mr. Otto

37. History of Chemistry.—The origin, development, and applications of the more important chemical theories and principles. Prerequisite, Course 1, 2. Recitation, *two hours a week in second half-semester only. One credit hour.* Mr. Gilliland

40. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 31. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Otto

42. Chemical and Engineering Computations.—Computation procedures employed by chemists and chemical engineers, including use of slide rule and logarithms. Lectures and recitations, *two hours a week. Two credit hours.* Mr. Otto

51, 52. Organic Chemistry.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 31 or at least "C" grade in Course 1, 2. Classroom, *three hours a week;* laboratory, *four hours a week.* Two breakage cards. *Five credit hours.*

Mr. Gilliland, Mr. Osborn

71, 72. Physical Chemistry.—A course in the detailed study of fundamental principles of chemistry and their application to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 40, and Physics 1, 2. Calculus is very desirable. Classroom, *three hours a week;* laboratory, *four hours a week.* One breakage card. *Five credit hours.*

Mr. Brann, Mr. Tomlin

97, 98. Methods of Teaching Chemistry.—A course for prospective teachers of chemistry which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstrations, lesson plans, testing programs; texts, laboratory manuals; grading and scoring, and bibliography. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or equivalent. Classroom, *two hours a week. Two credit hours.* Mr. Brautlecht

Other courses in the Department of Chemistry not listed here are described under the College of Technology.

CLASSICS

Professor Chase; Professor Huddilston; Assistant Professor Andrews

Greek

The work in Greek is arranged with the idea of presenting the principal phases of ancient culture. 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 course some work bearing on the permanent contributions of early people to the civilization of ancient and modern times.

At present but one year of Greek language is offered; more will be given if there is sufficient demand. Instruction aims at close correlation with the major fields of interest of individual students.

1, 2. Beginning Greek.—Progressive development of the ability to read and understand classical Greek. Comprehension of selected and graded

passages of Greek is emphasized from the start. The reading of the second semester is determined by the needs and desires of the students. Both semesters must be taken for credit. *Four hours a week.* MR. ANDREWS

3. GREEK LIFE AND CULTURE.—A brief study of important features of the Greek legacy in art, literature, religion, and philosophy. Assigned readings and lectures. *Three hours a week.* MR. HUDDILSTON

4. GREEK RELIGION.—The development of religious thought among the Greeks from Homer down to the period of the Hellenistic philosophies. Lectures and assigned topics and discussions intended to provide an introduction to comparative religions. *Two hours a week.* MR. HUDDILSTON

51. GREEK LITERATURE.—A general survey which does not presuppose any knowledge of the Greek language. While the course includes prose literature as well as poetry, the main attention is given to Homer and writers of the drama; considerable reading is done in English translation. Given in 1936-37. *Three hours a week.* MR. HUDDILSTON

Latin

The courses in Latin are planned with a double purpose—to give some understanding of the best that Rome achieved and to train students for high-school positions as teachers of Latin.

The first purpose is cultural. It introduces students to the forms of classic literature as exemplified by Cicero, Livy, Tacitus, and Pliny in prose, by Terence and Plautus in dramatic art, and by a selection from the masters of lyric poetry. In addition, the courses are planned to give an introduction to the thought of the leading minds at Rome with some appreciation of its permanent value, and a comprehension of the Roman Empire as a milestone in the advance of European civilization.

The courses also are designed to give such knowledge of the Latin language and methods of teaching as would be required of a well-trained secondary-school teacher.

Courses 1, 2, 3, 4 cover the regular high-school curriculum and are given only in case of sufficient demand.

1, 2. BEGINNING LATIN.—This course covers the work of the first two years in high school. Students in Arts and Sciences must take both semesters for credit. *Four hours a week.* MR. ANDREWS

3. CICERO.—Selected orations from the greatest of the Roman orators. *Four hours a week.* MR. ANDREWS

4. VERGIL.—Selections from the *Aeneid,* the supreme poetic achievement of the Romans. *Four hours a week.* MR. ANDREWS

5. LIVY.—Selections from the *History of Rome.* Reading, with discussion of language and Roman history. *Three hours a week.* MR. ANDREWS

6. CICERO AND HORACE.—Reading of the *De Senectute* of Cicero with some attention to his religious thought; study of the lyric poetry of Horace. *Three hours a week.* MR. ANDREWS

7, 8. LATIN COMPOSITION.—Development of more accurate understanding of Latin through practice in writing. Functional grasp of forms and constructions is stressed. *One hour a week.* MR. ANDREWS

9. TACITUS.—Reading and discussion of the *Agricola* and *Germania.* This course involves an introduction to the history of the Roman Empire. *Three hours a week.* MR. CHASE

10. TERENCE AND PLAUTUS.—A study of the development and characteristics of Roman comedy as seen in the *Phormio* of Terence and the *Captivi* and *Trinummus* of Plautus. *Three hours a week.* MR. CHASE

21, 22. LATIN COMPOSITION.—Accurate knowledge of syntax is stressed in the first semester and Latin rhetoric in the second. Either semester is open to students who have completed Latin 7, 8. Essential for prospective teachers. *One hour a week.* MR. CHASE

23. THE YOUNGER PLINY.—Life and conditions in the Roman Empire as revealed by the letters of a Roman of the first century. *Three hours a week.* MR. CHASE

24. HORACE AND JUVENAL.—Roman satire and social life as disclosed by the writings of the great satirists. *Three hours a week.* MR. CHASE

41, 42. ROMAN PRIVATE LIFE.—The manners, customs, social usages, and everyday life of the Romans. This course deals with their essentially human qualities. Discussion, reading, and reports. No knowledge of Latin is required, and either semester may be taken for credit. Open to members of the three upper classes. *Three hours a week.* MR. ANDREWS

51, 52. TEACHERS' COURSE.—The objectives, content, and methods of the secondary-school Latin curriculum. Discussion of principles, solution of problems, outside reading, and investigation of special topics. Given in 1935-36 and alternate years. *Three hours a week.* MR. ANDREWS

53, 54. LATIN LITERATURE.—A study of the development of the literature of the Romans through selected readings in prose and poetry with discussion of the style, technique, and characteristics of various writers and periods. Given in 1935-36 and alternate years.

57, 58. Roman Philosophy.—Readings from the *De Rerum Natura* of Lucretius and the philosophical writings of Cicero and Seneca. Discussion of the leading schools of ancient philosophy. *Three hours a week.* Mr. Chase

59, 60. Roman Rhetoric and Oratory.—Tacitus, *Dialogus de Oratoribus;* Cicero, selections from the *Brutus* and *De Oratore.* Given occasionally. *Three hours a week.* Mr. Chase

62. The Latin Language.—A historical study of Latin forms and inflections with a study of early inscriptions. Given in case of adequate demand. *Three hours a week.* Mr. Chase

107, 108. Sanskrit.—Given in case of adequate demand. *Two hours a week.* Mr. Chase

ECONOMICS AND SOCIOLOGY

Professor Ashworth; Associate Professor Chadbourne; Assistant Professor Kirshen; Assistant Professor Melder; Assistant Professor Lamson; Mr. Lewand

Economics

It is the purpose of this department to assist the student to an understanding of the way in which society produces and regulates its wealth. The function of money, the relation between capital and labor, questions of public finance are representative of the sort of problems that distinguish the social science of economics, but its scope includes all that facilitates a broad human understanding of the control of wealth. Thus the study of economics provides a foundation for good citizenship and not merely a technique for business success.

1a, 2a. Principles of Economics.—A study of the fundamental characteristics and institutions of modern economic society, including such topics as specialization, large scale production, machine industry, competition, credit, foreign trade, foreign exchange, and distribution of wealth; the application of principles to such economic problems as population, labor legislation, transportation, public expenditures, and taxation. *Three hours a week.*
Mr. Ashworth, Mr. Melder, Mr. Lewand

1b, 2b. Principles of Economics.—A short course similar to Course 1a, 2a for students in Technology and Agriculture. *Two hours a week.*
Mr. Melder, Mr. Lewand

9, 10. Accounting.—The study and practice of the principles of accounting which every business person should possess. Since it does not presume any knowledge of double-entry bookkeeping, a considerable part of the first semester's work is devoted to fundamental principles. Balance sheets and income statements, depreciation, reserves, sinking funds, partnership, and corporation problems are the principal topics of the second semester. *Three hours a week.* Mr. Chadbourne

16. Business Law.—A study of the basic legal principles guiding, expanding, and limiting business transactions. The nature of law, the enforcement of law, contracts, agency, and bailments are given special consideration. For juniors and seniors in Technology and Agriculture only. *Three hours a week.* Mr. Kirshen

51. Corporation Finance.—This course treats the corporation in a possible life-cycle of organization, operation, failure, or reorganization. Forms of business organization, corporate securities, intercorporate relations, management and control are considered. Special emphasis is given to the use of securities in distributing corporate funds and control to stockholders, bondholders, and the corporate managers. Juniors and seniors only. *Three hours a week.* Mr. Kirshen

52. Social Control of Industry.—This course deals with the extension of government control over business activities for the purpose of social welfare, economic reform, and business recovery. *Three hours a week.* Mr. Ashworth

53. Money and Banking.—The monetary and banking systems of the United States and other countries; special emphasis on the relation of banking to business. Juniors and seniors only. *Three hours a week.* Mr. Chadbourne

54. Investments and Investment Banking.—The course deals with the selection of investments, with a study of the proper types of investments for dependents, the business and professional classes, and institutions. The different types of securities and their relative merits are analyzed. An investigation is also made of the social and practical aspects of the investment banking business. Suggested preparation, Courses 1a, 2a; 51 and 53. Three *hours a week.* Mr. Chadbourne

55, 56. Business Law.—This course is more advanced than Course 16 and includes, in addition, damages, negotiable instruments, guaranty and suretyship. Juniors and seniors only. *Three hours a week* Mr. Kirshen

60. Social Insurance.—The development of the main forms of social insurance in the United States and European countries: e.g., unemployment, old age pensions, workmen's compensation, and health. The characteristics

of each type of risk and the relative merits of different financial systems. *Three hours a week.* MR. LEWAND

69. MODERN ECONOMIC SYSTEMS.—A survey of socialism, communism, and fascism. Their organization of agriculture, labor, capital, and trade. Their development, their performance, and their problems as compared with the capitalist state. *Three hours a week.* MR. LEWAND

71. PUBLIC FINANCE.—The following topics will be considered: government activities and government expenditures, taxation and tax systems, budgets and other means of regulating and controlling government spending, and current problems of taxation. Juniors and seniors only. *Three hours a week.* MR. ASHWORTH

72. LABOR PROBLEMS.—A study of problems arising out of the relationships of employers and employees in modern industrial society with special reference to solutions contemplated or achieved through special labor legislation, collective bargaining, and management. Juniors and seniors only. *Three hours a week.* MR. MELDER

73. LABOR PROBLEMS.—Similar to Course 72. For Technology students. *Three hours a week.* MR. MELDER

91. DEVELOPMENT OF ECONOMIC THOUGHT.—The course treats the economic ideas developed from early times to the middle of the nineteenth century, with special attention devoted to the mercantilist, physiocratic, classical, nationalist, historical, and socialist schools of political economy. Seniors only. *Two hours a week.* MR. MELDER

92. DEVELOPMENT OF ECONOMIC THOUGHT.—The evolution of economic theory from the middle of the nineteenth century to the present. The Austrian school is studied as an approach to the neo-classical school. Institutionalism and other contemporary developments are investigated with the view of showing their places in relation to certain movements such as the growth of corporations. *Two hours a week.* MR. MELDER

101, 102. ECONOMIC SEMINAR. THE DEPARTMENTAL STAFF

Sociology

The sociology curriculum focuses the student's attention upon social relationships as phenomena capable of objective, critical analysis. This is achieved through study of (1) the structure and function of society—of which the family, social stratification, and social codes are typical; (2) social disorganization—of which crime, poverty and war are typical; and (3) the dynamics of social change, or how society adjusts itself to natural, technological,

and social changes. Sociology is bounded on the one hand by zoology, psychology and anthropology; on the other hand by economics, history, and philosophy.

1, 2. Principles of Sociology.—An introductory course designed to equip the student with a basic knowledge of the structure and functioning of human society. The community, social stratification, unorganized, unspecialized and specialized groups, social codes, relation of the environment to the social order, and the processes of social change are considered. Prerequisite for other courses in sociology. *Three hours a week.* Mr. Lamson

61. Social Pathology: Poverty and Dependency.—A study of typical varieties of social maladjustment. Desertion, divorce, illegitimacy, prostitution, maldistribution of wealth, poverty, public and private methods of poor-relief, unemployment, child labor, old age insecurity, mental defect, and war are considered. Field trips. *Three hours a week.* Prerequisite, Course 1, 2 or permission of instructor. Mr. Lamson

62. Social Pathology: Criminology.—A study of the characteristics, causes, and treatment of crime, including mental, physical, economic, and social factors; case studies of juvenile delinquents and criminals; the relation of race, nationality, age, and sex to crime; theories and forms of punishment and rehabilitation; methods of crime prevention. Field trips. Prerequisite, Course 1, 2 or permission of the instructor. *Three hours a week.* Mr. Lamson

81, 82. The Family.—A study of the family as a unit of social organization in its primitive, historical, and modern aspects. Consideration of the patriarchal unit, and of the influence of Christianity and the Industrial Revolution upon marriage and the family is followed by an analysis of the modern family including size, basic social and economic conditions, interaction, family tensions, and family disorganization. Prerequisite, Course 1, 2. Given in 1936-37 and alternate years. *Two hours a week.* Mr. Lamson

87. Social Evolution and Social Change.—Analysis of the evolutionary aspects of associations, institutions, and mores in human society. Consideration of progress, civilization, culture, and theories of social change. Special emphasis upon the fundamental problems of social causation. Given in 1935-36 and alternate years. Prerequisite, Course 1, 2. *Two hours a week.* Mr. Lamson

88. Population and Race.—A study of the factors involved in the composition, growth, and control of population; analysis of birth and death rates, influence of standards of living, qualitative and quantitative aspects, and theories of population; special consideration of racial theories and funda-

mental racial problems. Prerequisite, Course 1, 2 or permission of the instructor. Given in 1935-36 and alternate years. *Two hours a week.*

MR. LAMSON

103, 104. SOCIOLOGY SEMINAR. MR. LAMSON

ENGLISH LITERATURE AND COMPOSITION

PROFESSOR ELLIS; ASSOCIATE PROFESSORS TURNER, SMALL, and ASHBY; ASSISTANT PROFESSORS SCAMMAN, CROSBY, FLEWELLING, and JENSEN; MR. WHITNEY; MR. MORELAND; DR. LEROY; MR. REYNOLDS; MISS SNIDER

The Department of English comprises instruction in composition and rhetoric, in English and American literature, in journalism, in the history of the English language, and in comparative literature. The English major student may elect as his major subject any one of these separate fields, or may make other combinations with the approval of the head of the Department and the Dean.

All students planning to pursue major programs in English should have completed the prerequisite courses Eh 3, 4 and Eh 7 (8) or their equivalent, before the close of their sophomore year. The History of England, Public Speaking, History of Philosophy, and an elementary knowledge of German are strongly recommended for all students planning to major in any subject in the general field of English. A grade of C or better is expected in Eh 3, 4, and in eighteen hours of the major curriculum.

The curriculum most commonly recommended for the student majoring in English Literature includes Eh 57, 58; Eh 43 or 44; Eh 53; Eh 67; a semester's advanced work in nineteenth-century English literature; and a year's work in one of the advanced period or type courses in English, or in comparative literature. Other courses in English or in other departments may be substituted on the recommendation of the major adviser.

The departmental comprehensive examinations comprise a written examination in the mechanics of writing, late in the junior year, which serves also as a basis for the selection of senior tutors for freshmen deficient in composition; a critical report on the study of some selected author, at the beginning of the senior year; and an oral and written examination covering the field of English literature and the student's advanced literature courses, in his final semester.

Students pursuing major curricula in other departments who intend to offer English as a second teaching subject in secondary schools should

prepare themselves by taking courses Eh 3, 4; 7 or 8; 57 or 58; 43 or 44; and 21 (22) when offered.

A special program of courses for students interested in journalism or creative writing as a profession may be found above among the specimen curricula.

1. Freshman Composition.—An intensive course in expository writing, for students in all colleges. Stress is placed upon correctness, clarity, and ease of expression and upon the organization of material. Frequent themes and conferences. Required of all freshmen not excused by the Department. *Three hours a week.*

Note: Freshmen who are particularly deficient in the fundamentals of grammar, sentence structure, and spelling are required to attend special tutoring groups in addition to the regular work of the course.

Mr. Turner (Chairman) and Members of the Department

2. Freshman Composition: Description and Narration.—Study and practice in writing, chiefly of descriptive and narrative types, with some further study of exposition. Required of students whose grade in English 1 is below C+; elective for others.

Mr. Turner (Chairman) and Members of the Department

3, 4. History of English Literature.—A study of English literature from Chaucer's time to the present, tracing its historical development and acquainting the student with the chief writers and their work. Readings, recitations, and illustrated lectures. English 3, 4 or 11, 12 is prerequisite for all advanced courses in English literature. *Three hours a week.*

Mr. Jensen (Chairman), Mr. Flewelling, Mr. Whitney, Mr. LeRoy

5 (6). Technical Composition.—A study of the forms of writing of greatest professional usefulness to engineers, agriculturists, and foresters. The forms of business correspondence, the construction of reports, and preparation of technical papers. *Not open to students in the College of Arts and Sciences. Two hours a week,* fall or spring semester. Mr. Scamman

7, 8. Second-Year Composition.—In the fall semester the writing of weekly formal and informal essays, with a study of the informal essay in English literature; in the spring, descriptive and narrative themes, with a study of the short story. Recommended for sophomores, especially for those who expect to select a major in the English field. *Three hours a week.*

Mr. Flewelling (Chairman), Mr. Ellis, Mr. Ashby, Mr. Whitney

9 (10). Modern Literature.—A study of specimens of literature of contemporary interest, with the design of cultivating the appreciation and enjoyment of good reading. *Not open to students in Arts and Sciences. Two hours a week,* fall or spring semester.

Mr. Scamman (Chairman), Mr. Small, Mr. Moreland

11, 12. Freshman Literature and Composition (Honors Course).—A survey of English literature to the end of the nineteenth century. Practice in theme writing of expository, descriptive, and narrative types. Open only to freshmen excused from English 1. *Three hours a week.*

Miss Crosby, Mr. Jensen

18. Literature for Freshmen.—The reading and study of works of literature representing the chief literary types: fiction, essays, poetry, and drama, with several exercises in composition. This course may be elected instead of or in addition to English 2 by freshmen who have completed English 1 with a grade of C+ or better. *Three hours a week.*

Miss Crosby (Chairman), Mr. Small, Mr. Ashby, Mr. LeRoy, Mr. Reynolds

21 (22). Teaching of English in the High School.—A consideration of the chief problems confronting the teacher of high-school English composition and literature. The presentation of the different literary types; essentials and methods in composition; choice of texts, sequence of literary readings, and other topics. Given in the spring semester, 1936. *Two hours a week.*

23. News Writing and Reporting.—Training in the fundamentals of newspaper work through theory and practice. Open only to juniors and seniors. For journalism majors English 7 is prerequisite. *Three hours a week.*

Mr. Moreland

26. Newspapers in the Twentieth Century.—An intensive study of present-day American journalism, with emphasis on the forces which build newspapers and the influence of such journals on the thinking of the nation. A brief study of the historical backgrounds of American journalism will be included in the course. Prerequisite, English 23 or consent of the instructor. *Three hours a week.*

Mr. Moreland

28. Mechanics of Editing.—Copy reading, headline writing, and page make-up, with a study of news values. Textbook and lectures. Prerequisite, English 23. Given in 1936-37 and alternate years. *Three hours a week.*

Mr. Moreland

29. Journalistic Writing.—A practical writing course for students, which covers departmental writing in newspapers, editorial planning, critical

writing, and specialty writing. Prerequisite, English 23. *Three hours a week.* MR. MORELAND

30. THE COUNTRY NEWSPAPER.—A study of country journalism with a view to its improvement. Actual writing for weekly and semi-weekly papers of the State is required in the course. Prerequisite, English 23 or consent of the instructor. Given in 1935-36 and alternate years. *Three hours a week.* MR. MORELAND

38. TENNYSON AND BROWNING.—Primarily a reading course, with much class discussion. An important aim is the cultivation of a fondness for poetry in the student. *Three hours a week.* MR. TURNER

43, 44. AMERICAN LITERATURE.—A study of the ideas, political, social, and religious, as well as the literary expression of the chief American writers. Lectures, recitations, and assigned readings. *Three hours a week.* MR. ELLIS, MR. FLEWELLING

45, 46. CONTEMPORARY LITERATURE.—A study of present-day tendencies and production in the different fields of literature. The fall semester is devoted to contemporary American literature, the spring to British. *Three hours a week.* MR. FLEWELLING

For Courses 51-100, inclusive, Eh 3, 4 (or 11, 12) is prerequisite, except for Dean's List students whose grades in English have been satisfactory and who have the instructor's permission to enroll. These courses may, with the approval of the Graduate Faculty, be taken for graduate credit by any qualified student who has already completed satisfactorily a full advanced course in the Department.

51, 52. ANGLO-SAXON.—A study of Anglo-Saxon grammar and reading of easy prose and poetry. Reading of the Anglo-Saxon epic *Beowulf* in the second semester. Lectures on the literature of the Anglo-Saxon period. Given in case of sufficient demand. *Three hours a week.* MR. SMALL

53. CHAUCER.—A study of selections from 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.* MISS CROSBY

55, 56. NINETEENTH CENTURY POETRY.—In the first half the poets of the English Romantic Movement—Wordsworth, Coleridge, Byron, Shelley, and Keats—are considered; in the second, those of the Victorian Age, especially Tennyson, Browning, Arnold, and the Pre-Raphaelites. Given in 1936-37 and alternate years. *Three hours a week.* MR. TURNER

57, 58. SHAKESPEARE.—A brief consideration of the English drama prior to Shakespeare, followed by a careful study of several of his most im-

portant plays and the reading of others. Attention is given to Elizabethan stage conditions and the dramatic work of Shakespeare's contemporaries. *Three hours a week.* MR. ELLIS, MR. SMALL

59, 60. NINETEENTH CENTURY BRITISH PROSE.—A course dealing with the chief prose writers, mainly non-fiction, of the nineteenth century, with especial attention to the ideas conveyed. The authors chiefly emphasized are Lamb, Hazlitt, De Quincey, Carlyle, Macaulay, Arnold, Ruskin, Newman, Huxley, and Stevenson. *Three hours a week.* MR. JENSEN

61, 62. HISTORY OF THE ENGLISH DRAMA.—The development of the drama in England from the miracle and mystery plays through the Elizabethan period. Subsequent tendencies in the Restoration and the eighteenth century, the nineteenth century closet drama, and the revival of the acting play in England and Ireland. Given in 1937-38. *Three hours a week.* MR. ASHBY

63. ELIZABETHAN LITERATURE.—Non-dramatic poetry and prose of the sixteenth century, with particular attention to the poetry of Spenser. Given in 1936-37. *Three hours a week.* MR. ASHBY

64. MILTON AND HIS TIME.—Chief emphasis is laid upon the life and work of John Milton, studied against the background of the literature of the seventeenth century to the Restoration of the Stuarts. Given in 1937. *Three hours a week.* MR. ASHBY

65, 66. RESTORATION AND EIGHTEENTH CENTURY LITERATURE.—A study of the evolution of neo-classicism and its transition into the early Romantic Movement, as shown in the poetry, fiction, and drama of the period. Given in 1935-36 and alternate years. *Three hours a week.* MR. ASHBY

67. HISTORY OF THE ENGLISH LANGUAGE.—The origins of the language; its relation to other languages; the sources and development of the English vocabulary. *Two hours a week.* MR. SMALL

71 (72). ADVANCED AMERICAN LITERATURE.—A study of some special field or period of American literature, conducted as a pro-seminar course. Prerequisite, English 43, 44 or its equivalent. *Three hours a week.* MR. ELLIS

73, 74. LITERARY CRITICISM (COMPARATIVE LITERATURE).—A study of literary practices and standards from Aristotle to the present, including American criticism. The reading not only of works of criticism, but also of some of the recognized masterpieces of Continental literature to which critical principles have been most frequently applied. *Three hours a week.* Given in 1936-37. MR. ASHBY

75, 76. EUROPEAN LITERATURE (COMPARATIVE LITERATURE).—A survey of Continental European literature from Homer to the present, showing

the relationship among the literatures of different epochs and countries. The first semester treats ancient and medieval literature and the Renaissance in Italy and Spain; the second, the literature from the Renaissance in France to modern times. No knowledge of foreign languages is required. Except by permission, students may not take English 76 without English 75. Given in 1935-36 and alternate years. *Three hours a week.* MR. TURNER

77, 78. CREATIVE WRITING.—An advanced course for students who have shown exceptional interest and ability in some field of writing. The types selected will vary in different years. Not accepted for graduate credit, unless by special permission from the Graduate Faculty. Prerequisite, completion of English 7 or 8 with honor grade. *Three hours a week.*

77 (78)a. THE SHORT STORY.—Fall semester, 1935-36.
MR. WHITNEY

77 (78)b. THE FAMILIAR ESSAY.—Spring semester, 1936.
MR. WHITNEY

77 (78)c. VERSE WRITING. MR. ELLIS

77 (78)d. THE ONE-ACT PLAY.

77 (78)e. FEATURE WRITING.

81, 82. THE ENGLISH NOVEL.—This course traces in the first semester the history of the English novel from the medieval prose romances to the death of Scott. Beginning with Dickens and Thackeray, the second semester treats the Victorian novel in considerable detail and makes some study of recent British novelists. Given in 1936-37 and alternate years. *Three hours a week.* MR. TURNER

101, 102. GRADUATE SEMINAR.—Given when there is sufficient demand. Subject and credit vary.

GEOLOGY

These and other courses in Geology are described under the Department of Civil Engineering in the College of Technology.

12. ECONOMIC GEOGRAPHY.—An investigation of the geographical character and economic resources of various subdivisions of the world as determining their position in world trade and commerce. The subject includes such factors as geography, history, natural resources, economics, manufacturing, and customs as they affect trade relations. *Three hours a week.*
MR. CHASE

13. PHYSICAL GEOLOGY.—An introduction to the dynamic and structural features of geology. The materials and structures and the geological

agents and processes which act upon the materials are treated in a general manner. The relationship of these features of geology to mankind is presented throughout the course. *Three hours a week.* MR. CHASE

14. HISTORICAL GEOLOGY.—A study of the past history of the Earth. The distribution of land and sea areas, the prevailing types of rock, climatic conditions through each successive period. The type of life characteristic of each age and its development are discussed. Course 13 or 16 is prerequisite. *Three hours a week.* MR. CHASE

GERMAN

PROFESSOR DRUMMOND; ASSISTANT PROFESSOR KLEIN; MR. MERRILL; DR. MILES

1, 2. FIRST-YEAR GERMAN.—A course for beginners. Grammar, composition, translation, conversation. Credit is not given for less than a year's work to students registered in the College of Arts and Sciences. *Five hours a week.* MR. DRUMMOND, MR. KLEIN, MR. MERRILL, MR. MILES

3, 4. SHORT STORY.—For students who have had Course 1, 2 or the equivalent. Translation, composition, grammar review. *Three hours a week.* MR. DRUMMOND, MR. MERRILL, MR. MILES

5, 6. THE DRAMA.—For students who have had Course 3, 4 or the equivalent. A study of the German drama including selections from such eighteenth and nineteenth century writers as Lessing, Schiller, Hebbel, Kleist, Hauptmann. Lectures and discussion. *Three hours a week.* MR. DRUMMOND

7, 8. THE NOVEL.—For students who have had Course 5, 6 or the equivalent. Critical reading of novels by such authors as Goethe, Meyer, Ludwig, and Sudermann. Lectures and essays. *Three hours a week.* MR. KLEIN

9. TEACHERS' COURSE.—For those who intend to teach German. Discussion of methods of teaching, the value of different texts, preparation of the lesson, classroom work, pronunciation, word-derivation, historical grammar. *Two hours a week.* MR. KLEIN

11, 12. RAPID READING COURSE.—For students who have had Course 3, 4, and have not passed the reading test. *Two hours a week.* MR. MILES

13, 14. ELEMENTARY GERMAN COMPOSITION AND CONVERSATION.—For students who have had Course 1, 2 or the equivalent. *Two hours a week.* MR. MERRILL

15, 16. Scientific German.—Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.* Mr. Klein

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

The following courses are given when there is sufficient demand.

51, 52. Studies in Eighteenth Century Literature.—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Goethe, and Schiller. Critical study of assigned works, lectures, and discussions. *Two hours a week.* Mr. Drummond

53, 54. Goethe.—Lectures on the life and work of Goethe, with a critical study of Faust. *Two hours a week.* Mr. Drummond

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

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

59 (60). History of German Literature.—Lectures in German outlining the history of German literature. Recitations, outside reading. *Two hours a week,* fall or spring semester. Mr. Klein

The department is also prepared to give, when there is a demand, the following courses: 61, 62. Early New High German; 101, 102. Gothic: Introduction to the Study of Germanic Philology; 103, 104. Old High German; 105, 106. Middle High German.

GENERAL COURSES

1, 2. Introduction to the Social Sciences.—A survey of the origins and historical development of some of the characteristic features of western civilization. Emphasis is placed on economic and political phases as part of the rise and development of the social sciences. *Three hours a week.*
Mr. Morrow, Mr. Kirshen

HISTORY AND GOVERNMENT

Associate Professor Dow; Associate Professor Whitmore; Assistant Professor Wilson; Assistant Professor Morrow; Mr. McReynolds

Coöperating members of the Department:
Dr. Huddilston, Professor of Ancient Civilization
Dr. Peterson, Lecturer in Latin-American History

History

History includes in one continuous narrative the story of mankind so far as it is known. Courses offered by the Department of History and Government are limited to selected periods which seem significant for the present generation. History is more than "past politics"—it includes economic, social, intellectual, artistic, and scientific events. It deals with ages, races, and social movements, attempting to interpret its materials in such a way as to throw light on our present complex civilization and the future course of events.

Courses numbered under eleven are open to freshmen; those numbered above fifty are not open to freshmen or sophomores except by special permission from the head of the Department.

Major Students. Students majoring in History or Government are expected to complete at least eighteen hours of work in approved courses. Courses Hy 1-6, 21, 22, Gt 31, 32 do not count as major courses under ordinary circumstances.

For the purposes of the major, the courses of the Department will be considered in three divisions or fields of specialization: (1) European History, (2) American History, (3) Government.

Having chosen his field of specialization, the student takes at least two approved courses (four semesters) in that division. Students who expect to specialize in European or American History should complete Hy 3, 4 and Hy 5, 6 by the close of their sophomore year. Those who expect to specialize in Government, or History and Government, should complete Gt 31, 32 and Hy 3, 4 or Hy 5, 6 by the close of their second year. Principles of Economics and Sociology are strongly recommended for prospective majors in History and Government.

Teacher Training. Students in the School of Education or College of Arts and Sciences who expect to offer History as a teaching subject should take Courses 3, 4, 5, 6, and six hours of advanced work previously approved by the head of the Department. Grades should be C or better in all courses. Many teachers are called upon to teach Civics, Citizenship, or Current Events courses, and consequently, Gt 31, 32 (or 36) is advised for this purpose. Subjects commonly combined with History for teaching purposes are English, French, Latin, science, or mathematics.

1, 2. Ancient Civilization.—A study of the achievements of the Greeks and Romans in laying the foundations of Western life and thought with some attention to Egyptian and Eastern civilization as the background of classical culture. 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. Readings, lectures, and notebook. *Three hours a week.* Mr. Huddilston

3, 4. United States History.—From the organization of the new government in 1789 to recent years. The work will cover such topics as the development of democracy, growth of the West, slavery and sectionalism, the Civil War, reconstruction, the making of modern America, industrialization, and imperialism. Open only to freshmen except by consent of the instructor. *Three hours a week.* Mr. Whitmore

5, 6. Survey of Western Europe.—This course is designed to show how modern Europe and its civilization came into existence. The work will include such subjects as the history of the Church, the medieval empire, the growth of towns, evolution of the Western State System, the expansion of Europe, cultural and economic changes, and the World War. *Three hours a week.* Miss Wilson, Mr. Morrow

17, 18. History of England.—From earliest times to the present. The political aspects are emphasized, with some attention to social and economic factors. Stress is placed upon the development of parliamentary government and the evolution of modern England and the British Commonwealth of Nations. *Three hours a week.* Mr. McReynolds

21 (22). Current World Problems.—A course designed for those who wish to be intelligently informed on world affairs, but do not make history their major subject. Lectures and discussions on outstanding problems of history, government, and politics. Open to all students in the University except freshmen. *Two hours a week.*

Members of the Departmental Staff

53. The French Revolution.—An analysis of the "Age of Enlightenment" forms an introduction to the study of the destruction of the Old Regime, the achievements of the Constituent Assembly, the conflicts of the Convention, the Terror, and the reaction of Thermidor. The rise of Napoleon, the founding of the Empire and its collapse are studied in relation to their permanent effect upon the modern world. Prerequisite, Course 5, 6. *Three hours a week.* Miss Wilson

54. Europe Since 1870.—The causes of the World War are sought in a study of nationalism, imperialism, and the international anarchy which these engendered. A study of the treaties of 1919 and their effects is a part of a

brief survey of current European problems. Prerequisite, Course 5, 6. *Three hours a week.* MISS WILSON

55, 56. ANCIENT HISTORY.—The work of the first semester centers on those nations of the Near East whose civilization culminated before 500 B.C., such as Assyria and Babylonia. Special attention is given to the contributions of Egyptian, Babylonian, Hittite, and Cretan cultures. The second semester follows the Mediterranean passing in review important factors in Phoenician, Greek, and Roman history. Investigation of assigned topics, special reports, and discussions. Open only to history majors except on arrangement with the instructor. *Three hours a week.* MR. HUDDILSTON

57. AMERICAN COLONIAL HISTORY, 1607-1688.—The founding and the political, social, and economic development of the colonies in the seventeenth century. English colonial policy of the Commonwealth and the Restoration periods. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

58. AMERICAN COLONIAL HISTORY, 1689-1789.—A study of the development of the colonies in the eighteenth century, including their western expansion, imperial relations, intercolonial relations, development of self-government. Emphasis is placed on the remote and immediate causes and the results of the American Revolution. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

59, 60. ECONOMIC AND SOCIAL HISTORY OF THE UNITED STATES.—A study of economic and social movements in the United States from the colonial period to the present. Included are such topics as colonial production and commerce; agricultural development in the South and West; commerce, labor, and the farmer in the machine age. Prerequisite, six hours of history or economics. *Three hours a week.* MR. MCREYNOLDS

62. MARITIME HISTORY OF THE UNITED STATES.—Ships and trade from Colonial days to the present, with emphasis on shipbuilding and shipping in New England, New York, and Maryland. The following topics are illustrative: famous ships and ship builders; evolution from wood to iron and steel ships; California and the clippers; the effect of the Civil War and the World War on our merchant marine. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

65, 66. LATIN-AMERICAN HISTORY.—The colonization, formation, and development of the Latin-American republics with special attention to Mexico and the Argentine Republic. Emphasis is placed on their civilization, problems and possibilities, and relations with foreign nations. Prerequisites, six hours of history. MR. PETERSON

67, 68. American Diplomacy.—The relations of the United States to the outside world. Such policies will be examined as the Monroe Doctrine, Pan-Americanism, and the "Open Door." Attention will be paid to our attitude toward the acquisition of territory, arbitration, limitation of armaments, and the League of Nations. Prerequisite, Course 3, 4, or 31. *Three hours a week.* Mr. Morrow

77, 78. The Middle Ages.—A more advanced study of the period from 500 to 1500 than is undertaken in Course 5, 6. Special emphasis will be given to a study of medieval institutions and to social and economic matters. The Byzantine empire, Slavic Europe, and the westward advance of the Asiatic peoples will be studied as an introduction to modern problems in the Near East. Prerequisite, Course 5. Not given in 1936-37. *Three hours a week.* Miss Wilson

79, 80. Cultural and Intellectual History of Europe, 400-1500.—This course follows the declines and advances of civilization from the end of the Roman period to the beginning of modern times. Such subjects will be considered as the science, religion, and philosophy of the transition period; contacts with Mohammedan civilization; the scientific renaissance; the rise of universities; art and architecture; and humanism and the Italian renaissance. Prerequisite, Course 5. *Three hours a week.* Miss Wilson

81, 82. The Far East.—An account of the culture, history, politics, and international relations of China and Japan, leading to an appraisal of the present situation in the Far East. Special attention is given to Russian and American policy in Asia and the problems created by Japan's promotion of a "Monroe Doctrine" for Asia. Prerequisite, six hours of history. *Three hours a week.* Mr. McReynolds

101, 102. Seminar.

64. Canadian History will be given in case of sufficient demand.

Government

The study of government, or political science, covers the activities of governing agencies from towns and cities to international bodies. It is concerned with the origin and development of political institutions and their social effects, and with the possibilities for improvement. As the activities of present-day governments are almost countless and affect the citizen at every moment, political science is closely related to all the social sciences, especially to economics, sociology, and psychology. Like other social studies, it is deeply rooted in history.

The primary purpose of instruction in government is to train college students for active and intelligent citizenship. Those who do not enter public life themselves will be able as citizens to help raise the level of governmental efficiency.

Major Students. See requirements for major under History.

Public Service Training. With the rapid expansion of government agencies and services there has come an added need for public servants with basic training in government and administration. A large proportion of the public hold elective or administrative offices at some time during their careers. Opportunities for trained men and women in public service are increasing. This is especially true of such fields as city management, health administration, public welfare, and financial administration. Advanced technical or professional training is required for many positions, but basic undergraduate training in government is valuable in all instances. A broad viewpoint and cultural background can be attained at the same time, which will be useful in any occupation entered.

Specimen Curricula have been prepared in the following subjects and are obtainable from the Dean of the College of Arts and Sciences:

Pre-legal Training
Foreign Service
Public Administration

31, 32. American Government.—A course dealing with the national, state, and local governments and the functioning of the American party system. The historical development and practical operation of political institutions will be viewed in their relation to present problems of a legislative, judicial or executive nature. Course 31, 32 (or 31, 36) is prerequisite for all other courses in government unless otherwise specified. *Three hours a week.*
Mr. Dow

34. Municipal Government and Administration.—A survey of the governmental structure and functions of American municipalities, and a careful analysis of existing conditions. Special study is given to administrative problems arising from such functions as police, education, charities and correction, finance, public works, and city planning and zoning. Prerequisite, Course 31, 32 (or 31, 36). *Three hours a week.* Mr. Dow

35. Principles and Problems of Government.—A general introduction to the study of political science, and of the important theories respecting the nature, origin, form, and purposes of the state and government. Such topics will be treated as sovereignty, law, constitutions, the executive, the judiciary, and public opinion. Prerequisite, Course 31, 32 (or 31, 36). *Three hours a week.* Mr. Dow

36. European Government.—A study of governments, political parties, and current problems in the leading nations of Europe, such as Great Britain, France, Germany, Italy, and Russia. Prerequisite, Course 31. *Three hours a week.* Mr. Dow

51. Public Administration.—The practical problems of administration in the modern state. The development of administration; principles of departmental organization and control; administrative law; public relations; personnel; financial administration. Each student will work on an actual problem of administration as the basis for a term paper. Prerequisite, Course 31, 32 (or 31, 36). *Three hours a week.* Mr. Dow

73, 74. International Relations.—A study of the fundamental realities which underlie international relations, and of the rules which govern them, with illustrative material taken from recent and current events and policies. Prerequisite, six hours of history or government. *Three hours a week.* Mr. Morrow

101, 102. Seminar.

The following courses will be given in case of sufficient demand:—83, 84. The American Constitution; 87, 88. International Law; 99, 100. Political Theory.

MATHEMATICS

Professor Hart; Professor Willard; Associate Professor Bryan; Associate Professor Jordan; Assistant Professor Lucas; Mr. Silverman; Mr. Stewart; Mr. Lamoreau

In general, the function of the Department of Mathematics is two-fold. On the one hand the Department offers courses to students who are interested in mathematics as a preparation for research and the profession of teaching. It gives training to this class of students so that they are prepared to do graduate work in mathematics or to teach the subject in any preparatory or high school. The department also supplies adequate mathematical foundation for students in the College of Arts and Sciences who are interested in the application of mathematics to the study of the physical, biological, and social sciences.

On the other hand it acts as a service department for the College of Technology and to a lesser extent for the College of Agriculture. In this capacity it strives to give the students of those colleges sufficient training in mathematics to enable them to carry forward successfully their technical studies.

Students whose major subject is mathematics are required to take Courses 1, 2 (unless offered for admission), 3, 5, 6, 7, 8, and to elect other courses to a total of forty hours. At least twelve hours must be chosen from Courses 51, 52, 53, 54, 56, 61, 63, 64, and Astronomy 15, 16, 59, and 60. Mechanics 51 and 52 may be substituted for ten hours of the above group. Astronomy 11 may be taken as a mathematics elective. Students majoring in mathematics who intend to teach are advised to elect Courses 26, 63, and 64 as well as several courses in physics.

1. Trigonometry.—The trigonometric functions, radian measure, functions of two or more angles, logarithms, trigonometric equations, inverse functions, solution of right and oblique triangles. *Two hours a week.*

Mr. Hart, Mr. Willard, Mr. Bryan, Mr. Jordan, Mr. Lucas, Mr. Silverman, Mr. Stewart, Mr. Lamoreau

2 (21). Solid Geometry.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. Open to all freshmen who did not offer solid geometry for admission. *Three hours a week.*

Mr. Silverman

3. College Algebra.—A brief review of radicals, the theory of exponents, logarithms, quadratic equations, the binomial theorem, determinants, theory of equations. *Two hours a week.*

Mr. Hart, Mr. Willard, Mr. Bryan, Mr. Lucas, Mr. Silverman, Mr. Stewart, Mr. Lamoreau

5. Advanced Algebra.—Topics in college algebra not covered in Course 3. Open to students who have taken Courses 1 and 3, and to freshmen with especially good high-school preparation. *Three hours a week.*

Mr. Stewart

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; the equivalent of Course 2 is desirable. *Four hours a week.*

Mr. Hart, Mr. Willard, Mr. Bryan, Mr. Lucas, Mr. Silverman, Mr. Stewart, Mr. Lamoreau

7. Differential Calculus.—Differentiation of the elementary forms of algebraic and transcendental functions, successive differentiation, differentials, rates, maxima and minima, expansion of functions, series. Open to students who have taken Courses 1, 3, and 6. *Five hours a week.*

Mr. Willard, Mr. Bryan, Mr. Lucas, Mr. Silverman, Mr. Stewart, Mr. Lamoreau

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

Mr. Willard, Mr. Bryan, Mr. Jordan, Mr. Lucas, Mr. Stewart, Mr. Lamoreau

9, 10. Trigonometry and Its Applications.—A course in trigonometry given to freshmen in Forestry. This course is similar to Course 1 but is considerably more extensive and contains more applications. *Two hours a week.* Mr. Jordan, Mr. Stewart, Mr. Lamoreau

13. Spherical Trigonometry.—An elementary course with problems and applications to spherical astronomy. Given in 1935-36 and alternate years. *Two hours a week.* Mr. Lamoreau

17. Mathematical Theory of Investment.—A study of interest, both simple and compound, present value, discount, and annuities. Throughout the course numerous problems are solved to illustrate the theory and to fix the principles involved. *Two hours a week.*

Mr. Silverman, Mr. Stewart

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.* Mr. Stewart

19, 20. The Theory of Statistics.—A presentation of the fundamental concepts of statistical analysis; a study of the processes used in obtaining numerical results and of the methods of estimating their reliability. Prerequisite, Course 3 or its equivalent. Given in 1936-37 and alternate years. *Two hours a week.* Mr. Bryan

26. College Geometry.—An elementary course in modern synthetic geometry. The nine-point circle, harmonic section, poles and polars, Ceva's theorem, Menelaus's theorem are among the topics considered. Emphasis is placed on the solution of original exercises. *Three hours a week.* Mr. Lucas

51. Advanced Analytic Geometry.—Review of the fundamentals of Course 6; advanced theory of the conic sections; the general equation of the second degree in two variables; transformation of coördinates; polar coördinates; higher plane curves. Given in 1936-37 and alternate years. *Three hours a week.* Mr. Lucas

52. Solid Analytic Geometry.—An introductory course. Among the topics considered are coördinates in three-dimensional space; lines and planes;

types, classification, and properties of quadric surfaces; transformation of coördinates. Given in 1936-37 and alternate years. *Three hours a week.*
Mr. Lucas

53, 54. Advanced Calculus.—Continuation of Course 7, 8. Partial differentiation and its applications; application of calculus to solid geometry; series, including power series and Fourier series; double and triple integration, line integrals; complex numbers, hyperbolic functions. *Three hours a week.*
Mr. Lucas

56. Differential Equations.—A course in the solution of ordinary differential equations and their applications. Emphasis is laid on the methods used in solving equations of the common types. Open to students who have taken Course 7, 8. *Three hours a week.* Mr. Willard

61. History of Mathematics.—A chronological survey of the important developments in mathematics from the beginnings of the subject to the present time. Lectures, reference studies, and recitation. Prerequisites, Courses 1, 3, 6, 7. Courses 2, 8, 26 and a reading knowledge of French and German are desirable. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1936-37 and alternate years. *Three hours a week.* Mr. Bryan

63, 64. Teachers Course in Mathematics.—A study of the kind of mathematics suitable for the secondary school from the point of view of modern mathematics. Through conference, students who so desire may make a study of the teaching of college mathematics. Prerequisites, Courses 1, 3, 6, 7. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1935-36 and alternate years. *Three hours a week.*
Mr. Bryan

68. Theory of Numbers.—A study of the elements of the theory of algebraic numbers. The discussions will consider the divisibility of integers, congruences, and quadratic residues. Admission by consent of the instructor. Given in 1936-37 and alternate years. *Three hours a week.* Mr. Bryan

The department is also prepared to give the following courses, which may be offered when there is sufficient demand: 65. Theory of Equations; 66. Modern Projective Geometry; 71, 72. Modern Higher Algebra; 73, 74. Advanced Statistics; 101. Theory of Functions of a Complex Variable; 102. Elliptic Functions; 105. Vector Analysis; 109. Celestial Mechanics; 110. Hydrodynamics; 115. Theory of Functions of Real Variables; 116. Fourier's Series; 117. Theory of Substitution Groups and of Algebraic Fields; 118. Theory of Transformation Groups; (Lie Theory); 119, 120. Differential Geometry.

MUSIC

PROFESSOR SPRAGUE

The music curriculum is formulated with the general objective of contributing toward a well-rounded college education. The primary aim of all the offerings of the Department of Music—aesthetic, theoretical, and applied—is to promote a constantly widening acquaintance with the literature of music. The courses all move toward this end: the aesthetic provide a listening survey of comparative epochs and "schools"; the theoretical lead to a more exhaustive and detailed working knowledge, through analysis and composition; the applied, both in individual and ensemble preformance, give the creative product its living realization.

Although the purpose of the University in its instrumental and vocal instruction is not to make professional musicians but rather to open to the student a broader grasp of the significance of great music, it does recognize its obligation to offer those who enter college with some mastery of technique, frequently acquired through much effort and cost, an opportunity to maintain and further advance this acquirement.

3, 4. MUSIC APPRECIATION.—The masterpieces of music analyzed and interpreted, with a consideration of period tendencies and historical positions of composers. The evolution of form from the folk-song through the symphony. Lectures, illustrations, prescribed readings, reports. No prerequisites. *Two hours a week.*

5, 6. INTRODUCTORY HARMONY.—A study of the fundamental structure of music composition, specifically of the conditions under which tones sound together and move in combination. Prerequisite, a knowledge of notation. *Two hours a week.*

7, 8. ADVANCED HARMONY.—Supplementary to Course 5, 6 and a continuation to the more advanced problems of tone combination. Harmonic analysis, including a brief survey of modernistic tendencies. Given in 1935-36 and alternate years. *Two hours a week.*

9, 10. COUNTERPOINT.—The art of combining melodies, a correlative with Harmony as the material of composition. Analysis of masterworks. Composition projects. Prerequisite, Course 5, 6. Given in 1936-37 and alternate years. *Two hours a week.*

11, 12. MUSIC IN THE NINETEENTH CENTURY.—Romanticism in musical art, particularly as reflected in the symphonic poem and Wagnerian music drama. Analysis of masterworks. Prescribed readings and reports. No prerequisite. Given in 1935-36 and alternate years. *Two hours a week.*

13, 14. Orchestration.—A study of the modern symphony orchestra. Analysis of representative works through score-reading, phonographic records, and attendance at concerts. Assigned readings in history and theory. Practical scoring. An assurance of essential preparation is required. Given in 1936-37 and alternate years. *Two hours a week.*

25, 26. Chorus.—The study and performance of representative choral repertoire, with a consideration of the composers' historical positions and creative aims. An assurance of vocal aptitude is required. *Two hours a week. One hour credit.*

27, 28. Orchestra.—A program in orchestral ensemble, generally of symphonic order, similar to that of Course 25, 26. An assurance of instrumental aptitude is required. *Two hours a week. One hour credit.*

51. Interpretation and Conducting.—A consideration of the problems of organization, time-beating, program-building, and interpretation in both choral and instrumental ensemble. Prerequisite, an assurance of aptitude and membership in the University band, chorus, or orchestra. *One hour a week.*

Band is listed under Military Science and Tactics, Course 11, 12.

Applied Courses

The University provides applied music instruction by accomplished and experienced music teachers selected chiefly from the neighboring city of Bangor, a recognized music center. For economy and convenience to the student, instruction in these courses is given on the campus if a sufficient number register for a course.

A maximum of eight semester hours of credit is allowed for applied music. Repetition of these courses is therefore permitted, with the requisite variation and progress in technical and literary material; but whatever number of hours are credited must be paralleled by at least an equal number of hours in music theory and aesthetics. Applied courses may be taken without credit, the University endeavoring to provide adequate practice opportunity.

Violin, Piano, Organ, Voice.—Private lessons at periods to be arranged. One hour lesson weekly, $45.00 the semester. *One credit hour.* One-half hour lesson weekly, $22.50 the semester. *One-half credit hour.*

Instrumental and Vocal Ensemble.—Group lessons at periods to be arranged. One hour lesson weekly. Fee, duet, $22.50 per person the semester; trio, $15.00 per person the semester; quartet, $11.25 per person the semester. *One-half credit hour* in each case.

The practice requirements are two hours daily for six days each week for hour lessons, one hour for half-hour lessons. The semester is fifteen weeks for applied music study.

To meet further demands, instruction in the various orchestral instruments can be provided on the same bases as above by accomplished musicians.

PHILOSOPHY

PROFESSOR LEVINSON

Philosophy is the systematic attempt to think our way to the solution of those problems that arise when we ask such general questions as those concerning the meaning of the world, the origin and destiny of human life, its standards and values, the sources and limits of our genuine knowledge, the principles that underlie valid reasoning, and the sources and significance of the sense of beauty. While philosophy is ordinarily approached directly by way of the history of man's attempt to solve these problems (see Pl. 3, 4), or through a study of the principal problems or types of philosophy (see Pl. 5, 6), opportunity is offered to various classes of students to approach it from the standpoint of their work in other fields (see Pl. 1, 2; 51, 52).

1, 2. ORIENTATION.—An introduction to liberal education, restricted to Arts freshmen. This course aims at assisting the student in making an intelligent choice of his major subject and electives by presenting an elementary account of the history and present condition of the subjects treated by the various departments in the College of Arts and Sciences. Given in collaboration with other departments of the college. *Three hours a week.*

3, 4. HISTORY OF PHILOSOPHY.—In the fall semester Greek thought from the beginning to the Christian era, with especial reference to Plato and Aristotle. In the spring semester the development of medieval thought, particularly the system of St. Thomas Aquinas; the rise of experimental science and the major philosophical schools from Bacon to Whitehead. *Three hours a week.*

5, 6. PERSONAL PHILOSOPHY.—A constructive criticism of the student's body of beliefs in the light of an analytical survey of the principal types of philosophy, with a view to the tentative formulation by the student of his own philosophic creed. Designed as an alternative to Course 3, 4, but open by consent of the instructor to students who have taken either of these courses. Given in 1936-37 and alternate years. *Three hours a week.*

8. LOGIC.—Part one of the course analyzes the principles that govern the passage of the mind from premises to conclusions; following the recent

trend, this analysis is developed in a language of symbols analogous to those employed in algebra. Part two deals with the methods of reasoning characteristic of modern natural and social science. Given in 1936-37 and alternate years. *Two hours a week.*

10. Ethics.—An historical survey of various conceptions of the ends of life: tribal morality, the Greek view of life, Christianity, the ethics of evolution. The course concludes with a discussion of some of the ethical problems of our contemporary social order. Given in alternate years with Course 8. *Two hours a week.*

11, 12. Topics in Philosophy.—This course is restricted to a limited number of properly qualified upperclassmen, whose needs in philosophy are not satisfied by any of the other courses offered by the Department. Topics associated with the student's major subject will be studied through tutorial conferences, assigned readings, and reports. No work in philosophy is prerequisite. *Two or three hours a week.*

101, 102. Seminar.—An individually arranged program of tutorial instruction for students offering twelve hours of work in the Department, or the equivalent.

PHYSICS

Professor Fitch; Associate Professor Crofutt; Assistant Professor Bennett; Dr. Larsen; Mr. Cleaves

Physics is concerned primarily with energy and its transformations. The courses in this department are designed to lead the student to a clearer understanding of these transformations as they affect our modern life. They seek to explain the basis upon which our highly mechanized contemporary civilization rests.

1, 2. General Physics.—This course covers the fundamental relations in mechanics, sound, heat, electricity, magnetism, and light. It is required for all advanced work in the department and meets the requirement for entrance to engineering, medical, and dental schools. It is recommended to all students who wish a working knowledge of the subject of physics. A knowledge of algebra and geometry is prerequisite. *Two lectures, three recitations, and one two-hour laboratory period a week. Five credit hours.*

Mr. Bennett, Mr. Fitch, Mr. Crofutt, Mr. Larsen, Mr. Cleaves

3. Descriptive Physics.—This course is designed to give a broad view of the field of physics. No knowledge of physics or mathematics is

assumed. *Three lecture-demonstrations a week. Three credit hours.*
MR. FITCH

10. METEOROLOGY.—A study of the earth's atmosphere, its composition and movements. Attention is given to atmospheric conditions accompanying changes in weather, a knowledge of which is essential for making weather predictions. A knowledge of high-school physics is assumed. *Three hours a week. Three credit hours.* MR. CLEAVES

15. HISTORY OF PHYSICS.—A study of the lives and theories of those men who have contributed most to the advancement of physics. Given in 1936-37 and alternate years. *Three hours a week. Three credit hours.* MR. FITCH

21 (22). MECHANICS AND HEAT LABORATORY.—A laboratory course including problems in acceleration, moments of inertia, elasticity, viscosity, heat of combustion, thermal constants of materials, and pyrometry. The physical principles are stressed. Course 1, 2 is a prerequisite. *Four hours a week. Two credit hours.* MR. LARSEN

23, 24. ELECTRICAL MEASUREMENTS.—A course in the theories and practices in the measurement of electrical and magnetic quantities. It includes a study of current, resistance, difference of potential, capacitance, magnetic flux, self and mutual inductances, impedance, and frequency of alternating currents. Open to those who have completed Course 1, 2 and who have a working knowledge of the calculus. Laboratory, *four hours a week. One and one-half credit hours.* MR. CROFUTT

55, 56. ELECTRICITY AND MAGNETISM.—The physical and mathematical relations involved in dealing with problems in electrostatics and direct-current phenomena are considered the first semester. The second semester is devoted to a study of magnetism and alternating currents. Course 1, 2 and a working knowledge of the calculus are required. Given in 1936-37 and alternate years. *Two hours a week. Two credit hours.* MR. FITCH

58. MATHEMATICAL PHYSICS.—An advanced course in which experimental data are examined and their mathematical relations deduced. The complex quantity will be used in problem solution in alternating currents. Some attention will be given to high-frequency phenomena. Open to students who have completed Course 1, 2 and who have a working knowledge of the calculus. Given in 1935-36 and alternate years. *Three hours a week. Three credit hours.* MR. FITCH

59. SOUND.—A course dealing with vibrating systems, sources of sound, transmission of sound, its reception and transformations. Attention is given to speech and hearing, sound ranging, architectural acoustics, reproduction of sound, noise reduction, and musical instruments. Open to those who have

completed Course 1, 2 and have a working knowledge of the calculus. Given in 1936-37 and in alternate years. *Three hours a week. Three credit hours.*
MR. CROFUTT

61. HEAT.—A course dealing with the measurement of temperature, specific heat, thermal expansion, conduction, convection, radiation, change of state, and the production of high and low temperatures. Open to students who have completed Course 1, 2 and who have a working knowledge of the calculus. Given in 1935-36 and in alternate years. *Three hours a week. Three credit hours.* MR. CROFUTT

65. VACUUM TUBES.—A course treating the physics of vacuum tubes. This covers their use as rectifiers, amplifiers, modulators, detectors as well as their construction. Open to advanced students who are familiar with the calculus. Given in 1935-36 and in alternate years. *Two hours a week. Two credit hours.* MR. FITCH

66. VACUUM TUBE LABORATORY.—A laboratory treatment of the same material as was covered in the classroom in the preceding course. Open to those who have completed Course 65 or its equivalent. Laboratory, *two hours a week. One credit hour.* MR. FITCH

69. MODERN PHYSICAL THEORIES.—A study of electrical phenomena in gases, spectra, X-rays, thermionic emission, photo-electric effects, radio-activity, atomic structure, and electrical phenomena in solids. Some attention is given to quantum and wave mechanics. Open to students who have completed Course 1, 2 and can use the calculus. Given in 1935-36 and alternate years. *Three hours a week. Three credit hours.* MR. CROFUTT

73. LIGHT.—An advanced course in the study of light covering its velocity of propagation, reflection, refraction, diffraction, and polarization. It also includes a study of optical instruments. Open to advanced students who can use the calculus. Given in 1936-37 and alternate years. *Three hours a week. Three credit hours.* MR. FITCH

74. LIGHT LABORATORY.—A laboratory treatment covering the same field as Course 73, which is prerequisite to it. Given in 1936-37 and alternate years. Laboratory, *four hours a week. Two credit hours.* MR. LARSEN

81, 82. ADVANCED LABORATORY.—The experimental solution of some problem chosen by the student and a member of the department. In this course the student gets an idea of research by actually taking data on an original problem. Seniors in the department are advised to take this course for one semester. Laboratory, *two or more hours a week. One or more credit hours.* MR. FITCH, MR. CROFUTT, MR. BENNETT

101, 102. SPECIAL LABORATORY.—An original investigation, open only to graduate students. It is not expected in this course that the student will

confine his work to a minimum number of hours a week. *Five or more credit hours.* Mr. Fitch, Mr. Crofutt, Mr. Bennett

PSYCHOLOGY

Professor Dickinson; Associate Professor E. N. Brush; Assistant Professor Purdy; Dr. L. H. Brush

Psychology includes a study of mind and of modes of behavior. It offers the student an opportunity to acquaint himself at first hand with the fundamental laws of the psychophysical organism. Through a study of the child, the normal adult, and the abnormal individual, it enables him to gain an insight into personality development and the problems of human adjustment. Through experience with psychological tests and the techniques of testing he comes to a more practical understanding of intelligence.

In its ramifications psychology borders upon the natural as well as the social sciences. It is most closely allied, however, with education, zoology, economics, sociology, and philosophy.

1, 2. General Psychology.—A basic course designed to give a general introduction to the field of psychology. A brief treatment of the nervous system; a systematic survey of such topics as sensation, perception, behavior, motivation, learning and memory, thinking, imagination, intelligence, and personality; a brief discussion of some of the special fields of psychology, e.g., child, social, abnormal; a weekly laboratory period. *Three hours a week.*
Mr. Dickinson, Mr. Brush, Mr. Purdy, Mrs. Brush

3. Applied Psychology.—Psychology applied to business, industry, advertising, salesmanship, and other fields. The application of psychological methods and tests in the selection and training of workers. For Technology students in Mechanical Engineering. *Three hours a week.* Mr. Brush

12. Advertising.—A course designed to acquaint the student with the psychological principles involved in advertising. Practical application of these principles in rewriting advertisements appearing in newspapers and magazines, and the developing of an advertising campaign in relation to an actual product. Prerequisite, Course 1, or permission of the instructor. *Three hours a week.* Mr. Dickinson

66. Educational Psychology.—Certain phases of psychology which are particularly important for educational theory and practice are selected for detailed consideration. Among the topics treated are mental inheritance, learning, memory, study methods, transfer of training, individual differences

and their measurement. Prerequisite, Course 1, 2. *Three hours a week.*
MR. BRUSH

67. PSYCHOLOGY OF CHILDHOOD.—A study of the mental growth of the child to six years of age. Native equipment, environmental influences, the development of motor and behavior patterns, speech, inference, judgment, etc., are given consideration. Modern experimental techniques of child study are discussed. Five thousand feet of motion pictures are available. Prerequisite, Course 1, 2, with a grade of C or better. *Three hours a week.*
MR. DICKINSON

69, 70. EXPERIMENTAL PSYCHOLOGY.—The first semester aims to acquaint the student with methods in the qualitative study of experimental problems and orient him in the objective approach to problems. In the second semester emphasis is placed upon quantitative methods and the statistical treatment of social-psychological data. Designed primarily for psychology majors. Prerequisite, Course 1, 2. *Three hours a week.* MR. PURDY

71, 72. ABNORMAL PSYCHOLOGY AND MENTAL HYGIENE.—A study of mental abnormalities followed by a study of the normal mentality, with a view to a better understanding of educational practice and the problems of human adjustment. Through the coöperation of Dr. C. J. Hedin, superintendent, five clinics are conducted at the Bangor State Hospital. Attendance at the clinics is required. Prerequisite, Course 1, 2, with a grade of C or better. *Three hours a week.* MR. DICKINSON

75. SOCIAL PSYCHOLOGY.—General trends in the study of social psychology: the relations of the individual to social institutions; the innate constitution of the individual as the basis of social phenomena; the present experimental methodology and its results in the study of the development of social responses in the individual. Instinct, emotions, personality, custom, and propaganda are studied. Prerequisite, Course 1, 2, with a grade of C or better. *Three hours a week.* MR. BRUSH

81, 82. MENTAL MEASUREMENT.—Training in the use of psychometric methods, with opportunity for their application to practical or research problems. During the first semester the emphasis is upon technical training, during the second upon the application to problems. Primarily for seniors and graduate students who plan to enter the teaching profession, social service, or personnel work. Prerequisite, Course 1, 2. *Three hours a week.*
MR. BRUSH

91, 92. PROBLEMS IN PSYCHOLOGY.—Primarily for graduate students and seniors with a rank of B or better. The self-active student has here an opportunity to select and attack particular psychological problems with the benefit of criticism and suggestions from the instructor at stated intervals. Admission by consent of the instructor. *Hours arranged.* MR. DICKINSON

93, 94. Seminar in Psychology.—Advanced work for graduate students and psychology majors and others who are interested in and fitted for it. In successive semesters the subject matter includes history of psychology; systems and schools of psychology; current psychological experimental literature; etc. Required of all Psychology majors; prerequisite for others, permission of the instructor. *Two hours a week.* Mr. Dickinson

96. Survey Seminar.—"A program of study" designed to enable senior majors in the Department of Psychology to prepare themselves for the Department's comprehensive written and oral examinations. *Two hours a week.* Mr. Dickinson, Mr. Brush, Mr. Purdy

PUBLIC SPEAKING

Professor Bailey; Assistant Professor Bricker; Mr. Brown

The primary function of the Department of Public Speaking is to assist the student in the art of formal and informal speech, to offer instruction in Speech Correction, and to develop voice, poise, and aesthetic appreciation through courses in expression and dramatic art. Courses in Public Speaking and Debating offer a student exercise in the practical use of logical and effective expression; while courses in Expression and Dramatic Art develop the artistic side of speech and acquaint the student with the fundamentals of interpretation, acting, and stagecraft.

Students interested in public speaking as a practical art may major in Speech; those interested in public speaking as a fine art may major in Drama.

The necessary hours for a major in Speech are made up by the coöperation of the Departments of English and Psychology and in Drama by the coöperation of the Department of English.

Students who major in Speech are expected to write and deliver a forty-minute address before some civic organization.

Students who major in Drama may either give a recital of approved standard, or direct a dramatic production.

Courses in Speaking

1 (2). Public Speaking.—A basic course in public speaking. The student is taught to organize material and to deliver short extemporaneous speeches. Sections are organized chiefly according to the college in which the student is enrolled, and each section is conducted according to the needs of the group. *Two hours a week.* Mr. Bailey, Mr. Bricker, Mr. Brown

3 (4). Debating.—Questions of state, national, and international importance are debated in class. Students expecting to do advanced work in debating are advised to take this course as early in their college career as possible. Prerequisite, Course 1 (2). *Two hours a week.* Mr. Brown

5 (6). Persuasive Speech.—Course 6 is a continuation of Course 1. The object of the course is to train students to organize their material persuasively, to continue extemporaneous speaking, to give the student practice in organizing and delivering oral reports, and to train the student in the principles of effective conference speaking. Prerequisite, Course 1 (2). *Two hours a week.* Mr. Bailey, Mr. Bricker, Mr. Brown

12. Business and Professional Speaking.—A course designed to help the student who plans to enter business or professional life. Attention is given to the sales talk, the after-dinner speech, the speech of explanation and demonstration, the conference discussion, and radio and telephone speaking. Opportunity is provided for the exceptional student to appear before business groups in neighboring towns. Prerequisite, four hours of speech courses. *Three hours a week.* Mr. Bailey

19 (20). Advanced Debating.—A course designed to meet the need of the student who desires advanced work in debate or who wishes to direct or teach debating or take part in intercollegiate debate. An individual program is worked out for each student enrolled. Prerequisite, four hours in speech courses and permission of the instructor. *Three hours a week.* Mr. Brown

45 (46). Advanced Public Speaking.—A study of representative orators in both England and America, an analysis of the structures of the oration and the rhetoric of oratory, a review of several historic debates and lyceum lectures, and the preparation and delivery of an original address. Prerequisite, four hours in speech courses. *Three hours a week.* Mr. Bailey

Speech Correction and Vocal Development

0. Speech Correction.—Open to students with speech defects. The method of instruction is largely individual. *No credit.* Mr. Brown

47. Speech Pathology.—A course designed to acquaint the student with symptoms, causes, and treatments of disorders of speech and voice. Stuttering, articulatory defects, aphasia, and voice disorders are included. Prerequisite, Course 1 (2) or 7 (8). *Two hours a week.* Mr. Brown

48. Vocal Development.—The aims of this course are to improve the voice and to give training in distinguishing correct and defective sounds. The approach is by breathing and vocal exercises and nonsense dictation tests (the

phonetic symbols of the International Phonetic Association are used). Prerequisite, Course 1 (2), or 7 (8). *Two hours a week.* MR. BROWN

Courses in Expression

7 (8). INTERPRETATIVE READING.—The oral interpretation of many selections from English prose, poetry, and drama forms the basis of this course. Several selections are rendered from memory, and exercises in the use of the voice are included. This course is recommended especially to the teacher of English. *Two hours a week.* MR. BAILEY

43 (44). PLATFORM READING.—The interpretation of an entire play. Open only to advanced students who have shown marked ability in expression and desire to do serious platform work. This course may be repeated. The consent of the head of the Department is necessary for enrollment. Prerequisite, Course 7 (8). *Two hours a week.* MR. BAILEY

Theatre

The object in theatre study is to coördinate the various branches of theatrical arts and to create a "producing" unit. For the purpose of registration, students should enroll under the course in theatre meeting their interests and needs. Not more than ten hours may be taken from this group without special permission.

27 (28). ELEMENTARY ACTING.—A course designed to stress the principles and theory of acting. Opportunity is afforded to act in one or more plays during the semester. *Two hours a week.* MR. BAILEY

29. SCENIC DESIGN.—The development and principles of scenic design. Lecture and laboratory. *One hour a week.* MR. BRICKER

32. COSTUME.—The history of stage costuming and the principles of designing costumes for definite play characters. Conference and laboratory. Prerequisite, Course 29. *One hour a week.* MR. BRICKER

33. LIGHTING.—A theoretical course in stage lighting. An opportunity will be given to light the class plays produced each semester. *One hour a week.* MR. BRICKER

36. MAKE-UP.—Practice in making up all types of characters. *One hour a week.* MR. BRICKER

37, 38. ADVANCED DRAMATICS.—Advanced work in one or more of the following fields of dramatics: acting, designing, costuming, lighting, and make-up. Prerequisite, Course 27 (28) or equivalent. Program must have the consent of the head of the Department. *Two hours a week.*

MR. BAILEY, MR. BRICKER

39 (40). History of the Stage and Stage Directing.—A course giving the student both in theory and practice the principles of stage directing, together with a brief history of the stage. Open only to students who have taken Course 37, 38 or by special permission. *Two hours a week.*

Mr. Bailey

ROMANCE LANGUAGES

Professor Peterson; Associate Professor Fundenburg; Assistant Professor Arnold; Assistant Professor Buzzell; Mr. Bourcier

The Department of Romance Languages offers in its French courses the opportunity to perfect one's self in writing and speaking the language. The first-year work provides primarily practice in rapid reading; in subsequent years the structure and development of the language are set forth in the linguistic courses, while the customs and manners of the people are discussed in the classes in conversation. The chief literary works of each language are carefully read and interpreted and the student is encouraged to develop independence of critical judgment. The student is thus given an opportunity through first-hand acquaintance with the language and literature of a people to establish direct relationship with its culture.

A more limited range of courses is available in Italian and Spanish, but their aim, so far as time permits, is the same as that of the work in French.

Students concentrating in French are required to elect 22 hours in the junior and senior years. Students concentrating in the general field of Romance Languages may combine two or more of these languages, electing in the junior and senior years a total of 22 hours. In all cases 12 of these 22 hours must be in literature. French courses 21, 22, 25, 26 may not be included in the concentration work of the last two years, being primarily intended for sophomores.

Students not concentrating in Romance Languages, but expecting to teach them, will be recommended for the teacher's certificate if they elect 17 hours in this field, 8 in language and 9 in literature.

French

BASIC COURSES

These courses, intended for freshmen, are designed to teach the student to read at sight the French of representative authors. The material is chosen from outstanding French writers of the nineteenth century. Complete novels

and stories of the romantic and realistic schools, including Hugo, Balzac, and Maupassant are read and discussed.

3, 4. Intermediate French.—Open to students who have offered two units of French as entrance requirements, and to those who have offered three units whose preparation proves inadequate for successful work in French 5, 6. In the latter case only two hours of credit are allowed. Regularly five hours credit. *Five hours a week.* Mr. Fundenburg, Miss Buzzell, Mr. Bourcier

5, 6. Advanced French.—Open to students offering three units of French as entrance requirements, and to exceptional students offering two units only. With less emphasis upon formal grammar, this course is meant to develop a habit of discriminating translation. *Three hours a week.*
Mr. Fundenburg, Miss Buzzell, Mr. Bourcier

GENERAL LANGUAGE AND LITERATURE COURSES

7, 8. Elementary Conversation and Composition.—Open to students who have offered two units of French as entrance requirements. Grammar review, together with constant drill in spoken French in order to achieve correct and fluent speech. *Two hours a week.* Miss Buzzell

8a. Elementary Conversation and Composition.—A second-semester course for exceptional students, covering by intensive study the same ground as French 7, 8. Admission by arrangement only. *Two hours a week.*
Mr. Fundenburg, Mr. Bourcier

9, 10. Advanced Conversation and Composition.—The aim of the course is to teach the student, through discussion of the customs and interests of every-day French life, to speak fluently in colloquial French. *Two hours a week.* Mr. Bourcier

17, 18. Readings in Contemporary French.—Open only to students who after completing Course 3, 4 or 5, 6 need additional preparation in order to pass the reading test. *Three hours a week.* Miss Buzzell

21. The Romantic Novel.—In this course is studied the renewal of French literary inspiration by Chateaubriand and Victor Hugo in the nineteenth century. *Three hours a week.* Miss Buzzell

22. The Realistic Novel.—Continuing French 53, this course traces the successive forms of art illustrated by Balzac, Flaubert, Maupassant, and more recent writers. *Three hours a week.* Miss Buzzell

The following courses are conducted in French.

25, 26. THE FRENCH THEATER OF THE NINETEENTH CENTURY.—This course seeks to enable the student to understand the works of the great dramatic artists of modern France from the point of view of the French public. An effort is made to develop independent criticism of both style and technique. *Three hours a week.* MR. FUNDENBURG

57, 58. ADVANCED FRENCH GRAMMAR.—A review of the fundamentals of grammar especially important in secondary-school instruction. Through practical exercises the student is taught to recognize and explain common difficulties confronting the teacher of elementary French. *Three hours a week.* MR. BOURCIER

59, 60. FRENCH ESSAY WRITING.—The student is taught to organize original material and to express himself clearly and logically in living French. *Three hours a week.* MR. BOURCIER

Prerequisite for French 61, 63, 64 is one of the literary courses listed above, namely, 21, 22; or 25, 26. French 63, 64 is a prerequisite for Courses 73, 74 and 101, 102.

61. MODERN FRENCH POETRY.—The poems of Victor Hugo and his contemporaries are studied in relation to the general Romantic Movement and the particular background of the times. The student is led to appreciate the beauty of poetic language and to read aloud with an adequate sense of the special character of French poetic rhythm. Not given in 1935-36. *Three hours a week.* MR. BOURCIER

63, 64. FRENCH CLASSICISM.—A study of the seventeenth century, the age which established the standards of perfection in form and in language ever since the characteristic of French literary production. *Three hours a week.* MR. FUNDENBURG

73, 74. THE AGE OF VOLTAIRE.—A study of the appearance of modern critical thought and attitude in the literature of the eighteenth century. *Two hours a week.* MR. BOURCIER

101. THE MIDDLE AGES.—The historical development of the French language and literature from the origins to the Renaissance. The text of the *Chanson de Roland* and extracts from the chroniclers are studied in detail, and a survey is made of the other medieval types. Not given in 1935-36. *Three hours a week.* MR. BOURCIER

102. THE SIXTEENTH CENTURY.—A survey of the French Renaissance, emphasizing selections from Marot, Rabelais, Ronsard, and Montaigne. The introduction of ancient ideas into the French mind shown as a starting point for modern thought. *Three hours a week.* MR. BOURCIER

Italian

1, 2. Elementary Italian.—A course for beginners, which includes a study of the basic principles of Italian grammar, pronunciation exercises, dictation, oral practice, and composition, with especial attention to the mastery of verb forms and pronouns. Reading is begun at an early date, and emphasis is laid upon the acquirement of an adequate vocabulary and facility in reading. *Three hours a week.* Mr. Peterson

3, 4. Modern Italian Prose.—Selections from representative authors of the nineteenth and twentieth centuries are studied in an endeavor to acquire a larger vocabulary and increased facility in reading. Review of the grammar, composition, and oral practice. Designed for second-year students. *Two hours a week.* Mr. Peterson

Course 52, Dante, may also be given when there is a sufficient demand for it.

Spanish

1, 2. Elementary Spanish.—A course for beginners, which includes a study of the basic principles of Spanish grammar, pronunciation exercises, dictation, oral practice, and composition, with especial attention to the mastery of verb forms and pronouns. Reading is begun at an early date, and emphasis is laid upon the acquirement of an adequate vocabulary and facility in reading. *Four hours a week.* Miss Arnold

1a, 2a, 2b. Elementary Spanish.—This is similar in content to Course 1, 2 but extends through three semesters and includes a larger amount of reading. The class begins in the second semester and is continued through the following year. *Three hours a week.* Mr. Peterson

3, 4. Modern Spanish Prose.—The principal aim of this course is to secure facility in the reading and comprehension of ordinary Spanish prose of the modern period. Certain books—novels, short stories, and plays—are studied intensively while others are read more rapidly. Review of grammar, study of idioms, and oral practice. Designed for second-year students. *Three hours a week.* Mr. Peterson

5, 6. Elementary Conversation and Composition.—Stress is laid upon the acquisition of a practical vocabulary by means of exercises based upon Spanish newspapers. Study of the grammar and translation into Spanish. Designed for third-year students or for second-year students who are pursuing at the same time Course 3, 4. *Two hours a week.* Miss Arnold

9, 10. Rapid Reading Course.—A continuation of Course 3, 4 designed especially to promote facility in reading. The material read, consisting large-

ly of narratives, will be limited to the modern period. *Two hours a week.*
MISS ARNOLD

The following courses may be given for special reasons: 7. COMMERCIAL SPANISH; 51, 52. THE NOVEL AND DRAMA.

Attention is called to Course 65, 66. LATIN-AMERICAN HISTORY, listed under the Department of History and Government.

ZOOLOGY

PROFESSOR MURRAY; ASSISTANT PROFESSOR PACKARD; ASSISTANT PROFESSOR MORTENSEN; DR. NELSON; MR. FLYNN; MR. MENDALL

Zoology is the branch of biological science which deals with the study of animal life. A knowledge of the general principles of zoology is prerequisite to an understanding of the relationships which exist between man and his animal environment, and serves as a basis for the study of the mental and social side of human behavior.

The Department offers curricula of courses prerequisite for admission to graduate, medical, dental, and nursing schools.

1. GENERAL ZOOLOGY.—A one-semester course in the fundamentals of zoology, illustrated by laboratory study of typical forms from the various groups of the animal kingdom. This course is designed to meet the requirements of students in the College of Agriculture. Together with Botany 2 it may be taken to fulfill the science requirement in the College of Arts and Sciences. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MURRAY, MISS MORTENSEN

3, 4. ANIMAL BIOLOGY.—A two-semester course in the fundamental principles of animal life, with laboratory study of the structure and function of organ systems in typical forms from the various groups of the animal kingdom. This course is prerequisite to all advanced courses in the department and fulfills the science requirement in the College of Arts and Sciences. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.*
MR. MURRAY, MR. FLYNN

5. ELEMENTARY PHYSIOLOGY AND HYGIENE.—The principles of anatomy, physiology, and hygiene applied especially to human well-being. Required of all first-year women except those in the Department of Home Economics. Classroom, *two hours a week. Two credit hours.* MISS MORTENSEN

8. INVERTEBRATE ZOOLOGY.—A study of invertebrate animals with reference to their anatomy, life histories, and phylogenetic relationships. The

course is designed for students interested in aquatic or marine biology, and serves as a basic course for summer work at the Lamoine Marine Laboratory. Open to qualified students. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* MISS MORTENSEN

9. ICHTHYOLOGY.—A course which deals with the characteristics of fishes, their life histories and economic importance, with particular emphasis on the fresh water species. Lectures, supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.*

10. ORNITHOLOGY.—A course which deals with the characteristics of birds, their life histories and economic importance, with particular emphasis on game species. Lectures supplemented by laboratory study of skins and mounted specimens, and by directed field observation. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MENDALL

12. ANATOMY AND PHYSIOLOGY.—A course which takes up the general principles of animal life and the structure and function of organs and organ systems, with special emphasis placed on higher mammalian forms. Designed for students in the Department of Home Economics, but open, by permission of the instructor, to all qualified women students. Classroom, *three hours a week;* laboratory, *four hours a week. Five credit hours.*

MR. MURRAY, MR. PACKARD

13. MAMMOLOGY.—A course which deals with the characteristics of mammals, their life histories and economic importance, with particular emphasis on game species. Lectures supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3, 4 Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. MURRAY

14. ANIMAL PARASITOLOGY.—This course deals with the identification of the more important parasites, the study of their life histories, and the prevention, control, and cure of the diseases involved. Special emphasis is given to the parasites affecting game animals. Prerequisite, Zoology 1 or 3, 4. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* MR. NELSON

15, 16. COMPARATIVE ANATOMY.—A comparative study of the structure, origin, and history of the vertebrate organ-systems. Prerequisites, Zoology 1 and Botany 2, or Zoology 3, 4, passed satisfactorily. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.*

MR. NELSON, MR. MENDALL

18. VERTEBRATE EMBRYOLOGY.—A study of the development and formation of tissues, organs, and organ-systems in vertebrates. Prerequisite, Course

15, 16, passed satisfactorily. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. FLYNN

19, 20. FISH CULTURE.—A two-semester course dealing with the practical problems involved in the rearing of fish. Prerequisites, Zoology 9 and Entomology 26. Lecture, *one hour a week;* laboratory, *three hours a week. Two credit hours.*

21, 22. NATURAL HISTORY.—A two-semester course dealing with the ecology of game animals. Prerequisites, Zoology 10 and 13. Lecture, *two hours a week. Two credit hours.*

37, 38. GENERAL PHYSIOLOGY.—A study of the physico-chemical forces of the vital processes of plants and animals; the more special phenomena in higher animals, with their bearing on human physiology. Prerequisites, two years of chemistry, one year of physics, and either Zoology 3, 4, or Zoology 1 and Botany 2. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. PACKARD

41. HISTOLOGY.—A study of animal tissues and of the methods of preparing microscopic slides. Admission by arrangement with the instructor. Prerequisite, two years of zoology. Classroom, *one hour a week;* laboratory, *six hours a week. Three credit hours.* MR. NELSON, MR. MENDALL

44. BIOLOGICAL THEORIES.—A discussion of the more important generalizations concerning the biological sciences designed to portray the growth and development of biological knowledge as a phase of intellectual culture, and to indicate the value of such knowledge to human welfare. Open only to zoology majors in the junior and senior years and to others upon the written approval of the instructor. Classroom, *two hours a week. Two credit hours.* MR. NELSON

47, 48. PROBLEMS IN ZOOLOGY.—Open to juniors and seniors who may have special interest and special qualification in some phase of zoology. The approval of the instructor concerned must be obtained before registering for this work. *Credit, arranged.* MR. MURRAY

55, 56. ZOOLOGICAL SEMINAR.—A consideration of the historical and current literature which expresses the trends of thought in biological science. Required of all senior majors and graduates majoring in zoology. Classroom, *one hour a week. One credit hour.* THE DEPARTMENTAL STAFF

Opportunity is given for graduate work in the various phases of zoology under the direction of the members of the Department. Students with adequate preparation may register by special written permission for the following courses:

105, 106. PROBLEMS IN ZOOLOGY.
111, 112. PROBLEMS IN PHYSIOLOGY.

School of Education

FACULTY OF INSTRUCTION

Olin Silas Lutes, Ph.D., *Dean and Professor of Education*
Ava Harriet Chadbourne, Ph.D., *Associate Professor of Education*
Ernest Jackman, A.M., *Associate Professor of Education*
John Raymond Crawford, Ph.D., *Assistant Professor of Education*
Edith Grace Wilson, M.A., *Instructor in Education*
Charles Lester Smith, A.B., *Instructor and Critic Teacher*
Veysey Hiram Robinson, B.Ped., *Instructor and Critic Teacher*
Grace Stetson Grant, A.B., *Critic Teacher*
Helen Louise Hathorne, B.A., *Critic Teacher*
Alice Lowe Brown, A.B., *Critic Teacher*
Horace Alcander Croxford, B.A., *Critic Teacher*
Caroline Collins Lowell, B.A., *Critic Teacher*

Members of coöperating Departments of the Colleges of Arts and Sciences and Technology.

Charles Andrew Brautlecht, Ph.D., *Professor of Chemistry and Chemical Engineering*
Milton Ellis, Ph.D., *Professor of English*
Edward French Dow, Ph.D., *Associate Professor of History and Government*
George Davis Chase, Ph.D., *Professor of Latin*
Harley Richard Willard, Ph.D., *Professor of Mathematics*
Albert Lewis Fitch, Ph.D., *Professor of Physics*
Charles Alexius Dickinson, Ph.D., *Professor of Psychology*
Joseph Magee Murray, Ph.D., *Professor of Zoology*
George Baer Fundenburg, Ph.D., *Associate Professor of Romance Languages*

GENERAL INFORMATION

The School of Education offers professional training to secondary teachers, superintendents, principals, and supervisors. Students will ordi-

narily enter with Junior standing, having had the first two years of work in either a liberal arts college or a normal school. Those with a different type of training may enter as special students until Junior standing is attained.

ADMISSION

Students in the College of Arts and Sciences

Those students in the College of Arts and Sciences of the University of Maine who plan to teach are given the opportunity to transfer to the School of Education at the beginning of their junior year. Such students should take the regular course as prescribed by the College of Arts and Sciences during the freshman and sophomore years, including in particular the course in General Psychology and such basic courses in other fields as will lay the foundation for a field of concentration.

At the beginning of the sophomore year, such students should register their intention to teach in the office of the Dean of the School of Education, and secure his approval as well as the approval of the Dean of the College of Arts and Sciences for their courses of study.

To be admitted to the School of Education students must have made a grade of C or better in at least three-fourths of their entire work during the freshman and sophomore years.

These students will be candidates for the degree of Bachelor of Arts in Education on the completion of their program in the School of Education.

Normal School Graduates

Graduates of the two-year course in normal schools who rank in the upper half of their graduating class, and who are recommended for college work by their principal, will be admitted to the School of Education with Junior standing. These graduates will be given fifty-four semester hours of advanced credit and by carrying a full program may graduate on the completion of two years of work. This rule is subject to modification if experience should warrant it. Successful teaching experience will be taken into consideration in passing on qualifications for admission.

Graduates of three-year training courses for junior high school teachers may be admitted in the same manner and be given eighty hours of credit and Senior standing. This will make it possible to complete the requirements for graduation in a year and one or two summer sessions, depending on how heavy a program is carried.

Those graduates who rank in the upper 15 per cent of their class will be granted an additional credit of three hours toward graduation.

All normal school graduates will be expected to meet the requirement of a field of concentration in academic subjects, except that those who plan to enter administrative or supervisory work, or to remain in elementary school work, may be permitted to take this work in Education and Psychology. In either case any work previously taken at the normal school which lies within the field chosen will be given due credit toward the requirements.

Normal-school graduates who are interested in entering the School of Education should request their principal to send a transcript of their record together with a statement giving their class rank to the Registrar of the University. These should be accompanied by a recommendation of the candidate by the principal.

Students who come from the normal schools will ordinarily be candidates for the Bachelor of Science in Education degree.

Graduates of other types of teacher-training institutions will be considered on their merits as special cases.

Commercial Education

An arrangement has been made with the State Department of Education whereby graduates of the teacher-training departments of approved commercial schools may receive appropriate credit toward the degree of Bachelor of Science in Commercial Education. For further information inquiries should be addressed to the office of the School of Education.

GRADUATION REQUIREMENTS

A total of 125 semester hours of college work is required for graduation. Of this total, approximately 24 hours will be required in Education and Psychology, and 40 to 50 hours in the field of concentration, all of which must be carried with a grade of C or better.

In addition, three-fourths of all work counted toward a degree must be completed with a grade of C or better.

Professional Subjects Required

Ed 29 (or 30)—Practice Teaching
Ed 51, 52, 53, or 54—History of Education
Ed 59—Principles of Secondary Education
Ed 65 (or 66)—Educational Measurement
Ed 77 (or 78)—Principles and Methods of High School Teaching

Py 1, 2—General Psychology
Py 66—Educational Psychology
Special Methods (one such course to be selected in a subject within the field of concentration)

Besides these specific requirements in strictly professional subjects, students will be strongly advised to take general courses in a number of subjects of vital importance as a part of the background of any teacher or educator, such as biology, economics, English, history and government, and sociology.

Field of Concentration

In order better to meet the needs of the typical high-school situation, the traditional requirement of a single major subject will be replaced by that of a field of concentration in the academic subjects. This field of concentration must include a minimum of 40 to 50 semester hours in a group of related subjects commonly taught in the secondary schools, the exact amount to depend on the number and character of the subjects combined, and the quality of the work done. This work must be carried with a grade of C or better to qualify for a degree in Education, and must be acceptable to the heads of the departments in which it is taken.

This requirement applies to all students whether working for the Bachelor of Arts in Education or the Bachelor of Science in Education degree. However, those who have had teaching experience and who plan to enter administrative, supervisory or elementary school work may be permitted to carry their field of concentration in Education and Psychology instead of academic subjects.

Combinations of subjects which occur frequently in the secondary schools are as follows: French and Latin; English and History; Mathematics and the Natural Sciences; English and Latin; English and French; History and Latin; English, French, and Latin; English, History, and Latin; English, History, and French; History, Civics, Economics, and Sociology.

Subjects which occur in a large variety of combinations are Physical Education, Music, Debating, and Dramatics. Each student will be expected to take sufficient work to attain proficiency in at least one of these fields.

COMPREHENSIVE EXAMINATIONS

Beginning with the Class of 1935 seniors in the School of Education will take a comprehensive oral examination in the subject of education, to be given

individually by arrangement during the month of May. Non-resident students will be expected to take the examination beginning with the class of 1936.

The main purpose of this requirement is to enable students in education to develop a better integration of their professional training and outlook. To facilitate this purpose and to compensate in part for the lack of a tutorial system which usually accompanies a system of comprehensive examinations, a new course, Education 49 (50), is required of students one semester during their senior year.

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in education who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section on General Courses.

RESIDENCE REQUIREMENT

A minimum of thirty semester hours of credit must be earned while in residence at the University to qualify a candidate for a degree. This requirement may be met by one academic year of residence, or in case of teachers by attendance in summer sessions. Five summer sessions may be accepted as the equivalent of one academic year provided the work is of distinctly high quality. In either case, this requirement must ordinarily be met after the student has become a candidate for a degree in the School of Education.

Exceptions to these rules will not be permitted except by a vote of the faculty.

A maximum of sixteen semester hours may be earned toward a degree by extension work, of which not over eight hours may be taken by correspondence.

DEGREES

(1) Bachelor of Arts in Education. This degree will be given to students who do the first two years of work in the College of Arts and Sciences, or the equivalent thereof, meet their entrance requirements, and their curricular requirements for the first two years. Candidates for this degree will be required to complete a minimum of 40 to 50 hours in a group of related academic subjects which are commonly taught in the public schools, with a grade of C or better.

(2) Bachelor of Science in Education. This degree will be given to students who are admitted from normal schools with advanced standing. Requirements for the degree will include a field of concentration in the academic subjects as for the B.A. degree, and the same professional courses. In meeting both these requirements, however, due credit will be given for the courses which have been previously taken in the normal-school course.

(3) Bachelor of Science in Commercial Education. This degree has been established for graduates of approved teacher-training departments of commercial schools in Maine, who transfer to the School of Education on the completion of their course and complete the course approved for this degree.

PROFESSIONAL CERTIFICATES

On the successful completion of the above program students will be recommended to the State Department of Education for the Professional Secondary Certificate.

Students will be recommended for the various Special Certificates on the satisfactory completion of programs of study which have been approved by the State Department.

Courses of Instruction

For courses in Psychology, see Department of Psychology in the College of Arts and Sciences

29 (30). Supervised Student Teaching.—A course in student teaching in academic subjects. Open to a limited number of seniors recommended by the Dean of the School of Education and approved by the heads of the academic departments. Preference is given to those who have completed Education 77 or 78. *Five hours a week. Three credit hours.*

Mr. Jackman

43 (44). Character Education.—A study of the nature of character and a critical appraisal of the means employed to cultivate it in young people with reference to theories of mental hygiene and progressive education. Prerequisite, Psychology 1, 2. *Three hours a week.* Miss Wilson

49 (50). Education Seminar.—This course is required of seniors in education one semester, and is designed to help integrate the various courses in education for the comprehensive examination. *Two hours a week.*

Departmental Staff

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

Miss Chadbourne

52. History of Education in Maine.—A study of the evolution of the educational system in the State from its earliest period to the present time. Open to juniors and seniors. *Three hours a week.* Miss Chadbourne

53. History of Ancient and Medieval Education.—Historical analysis and interpretation of the more important elements in modern education derived from the Hebrews, Greeks, Romans, Middle Ages, and Renaissance. Open to juniors and seniors. *Three hours a week.* Miss Chadbourne

54. History of Modern Education.—Evolution of present-day educational theory; institutions and practices of modern civilizations from the time of the Reformation up to the present. Open to juniors and seniors. *Three hours a week.* Miss Chadbourne

59 (60). Principles of Secondary Education.—A course in the application of the principles of education with special reference to the problems of high-school teaching. The aims of secondary education in a democracy in

terms of skills, knowledges, tastes, and ideals which are demanded in modern life. Primarily for juniors and seniors. Open to sophomores by permission. *Three hours a week.* MR. LUTES

61. SCHOOL ADMINISTRATION.—The general problems of school organization and administration in the United States. Primarily for seniors. Open by permission. *Three hours a week.* MR. LUTES

62. SECONDARY SCHOOL ADMINISTRATION AND SUPERVISION.—A practical course for those who are looking forward to positions as high-school principals or supervisors. Problems of organization, teacher selection and rating, improvement of teachers in service, salary schedules, extra-curricular activities, testing programs, and techniques of supervision will be emphasized. Primarily for seniors. Open by permission. *Three hours a week.* MR. LUTES

63. JUNIOR HIGH SCHOOL METHODS.—The course aims to present a theory of the junior high school based upon the psychology of adolescence, and to show the concrete consequences of such theory in the formation and treatment of a desirable curriculum. Open to juniors and seniors. Given in 1937-38 and alternate years. *Two hours a week.* MR. JACKMAN

65 (66). EDUCATIONAL MEASUREMENTS.—An introduction to educational measurements including principles of measurement, informal and standardized educational tests, group mental tests, and the uses of elementary statistics in educational measurements. Open to juniors and seniors. Classroom, *two hours a week;* laboratory, *two hours a week. Three credit hours.* MR. CRAWFORD

68. VOCATIONAL AND EDUCATIONAL GUIDANCE.—The aim is to present to prospective teachers the general problem of guidance in junior and senior high schools, with especial reference to the vocational phase, organization for guidance, necessary materials and techniques of counseling. Open to juniors and seniors. *Three hours a week.* MR. JACKMAN

71. PSYCHOLOGY OF SECONDARY EDUCATION.—A study of the adolescent age and its characteristics. 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; to others by permission. *Three hours a week.* MR. LUTES

74. EXTRA-CURRICULAR ACTIVITIES IN THE SECONDARY SCHOOL.—This course is designed to acquaint the prospective high-school teacher with the nature and scope of non-academic cultural and recreational activities related to the needs of adolescence, and to aid the teacher in developing a technique for their promotion, and for their correlation with the usual academic courses. Given in 1936-37 and alternate years thereafter. *Two hours a week.* MR. JACKMAN

75. Teaching the Social Sciences in Secondary Schools.—The purpose of the course is to acquaint the prospective teacher of the social sciences with a point of view and vital methods of presentation that will tend to make these subjects effective in the everyday problems of living. Open to juniors and seniors. Given in 1937-38 and alternate years. *Two hours a week.* Mr. Jackman

77 (78). Principles and Methods of Teaching in Secondary Schools.—A general course in methods for prospective high-school teachers. Open to seniors and juniors who have had General Psychology. *Three hours a week.* Mr. Jackman

81. Supervision in the Elementary School.—The theory of supervision in general and specific methods of supervision of the prominent elementary school subjects will be considered. Open to normal-school graduates, and students with teaching experience. Others by permission. *Two hours a week.* Mr. Crawford

84. Administration of the Elementary School.—A course for prospective superintendents and elementary school principals. Open to normal-school graduates and students with teaching experience; to others by permission. *Two hours a week.* Mr. Crawford

95, 96. Philosophy of Education.—A course for seniors and graduate students designed primarily for the reading and discussion of conflicting factors in education with a view to their criticism and coördination. *Two hours a week.* Miss Chadbourne

97, 98. Current Problems in Education.—Each student is assigned special problems in the field of education. Primarily for majors in education. Open by permission to others. Seniors only. *Two hours a week.*
Mr. Lutes and Staff

105. Methods of Research in Education.—A course in principles and techniques of educational research. Designed primarily for graduate students writing theses in education. Opportunity will be afforded to use thesis problems to illustrate the principles and techniques emphasized in the course. This course will be required of graduate students majoring in education. *Two hours a week.* Mr. Lutes

College of Technology

FACULTY OF INSTRUCTION

PAUL CLOKE, E.E., Eng.D., *Dean of the College of Technology and Director, Maine Technology Experiment Station*
CHARLES PARTRIDGE WESTON, C.E., M.A., *Professor of Mechanics*
WILLIAM EDWARD BARROWS, B.S., E.E., *Professor of Electrical Engineering*
WILLIAM JORDAN SWEETSER, S.B., *Professor of Mechanical Engineering*
CHARLES ANDREW BRAUTLECHT, Ph.D., *Professor of Chemistry and Chemical Engineering*
EMBERT HIRAM SPRAGUE, B.S., *Professor of Sanitary Engineering*
ARTHUR ST. JOHN HILL, E.E., M.S.E., *Professor of Electrical Engineering*
BENJAMIN CALVIN KENT, B.S., *Professor of Engineering Drafting*
PAUL DECOSTA BRAY, B.S., Ch.E., *Professor of Pulp and Paper Technology*
WESTON SUMNER EVANS, M.S., *Professor of Civil Engineering*
ALPHEUS CROSBY LYON, S.B., C.E., *Associate Professor of Civil Engineering*
BERTRAND FRENCH BRANN, S.M., *Associate Professor of Chemistry*
HAROLD WALTER LEAVITT, C.E., M.S., *Associate Professor of Civil Engineering*
WALTER JOSEPH CREAMER, B.S., E.E., B.A., *Associate Professor of Electrical Communication*
HARRY DEXTER WATSON, M.S., *Associate Professor of Mechanical Engineering*
LYLE CLAYTON JENNESS, M.S., *Associate Professor of Chemistry and Acting Head of the Department of Chemistry and Chemical Engineering*
CARL EVERETT OTTO, Ph.D., *Assistant Professor of Chemistry*
EVERETT LOUIS ROBERTS, B.S., *Assistant Professor of Electrical Engineering*
IRVING HENRY PRAGEMAN, Ph.B., M.E., *Assistant Professor of Mechanical Engineering*
EARL MAYNARD DUNHAM, M.A., *Assistant Professor of Engineering Drafting*
WILLIAM LESTER GILLILAND, Ph.D., *Assistant Professor of Chemistry*
JOHN GEORGE LESLIE CAULFIELD, M.S., *Assistant Professor of Pulp and Paper Technology*
HUGH DONALD CHASE, S.M., *Assistant Professor of Civil Engineering*
EVERETT WILLARD DAVEE, *Instructor in Mechanical Engineering*

Everett Joshua Felker, B.S., *Instructor in Civil Engineering*
Harry Roy Perkins, *Instructor in Mechanical Engineering*
Kenneth Gerard Crabtree, S.B., *Instructor in Electrical Engineering*
Theron Alonzo Sparrow, B.S., *Instructor in Mechanical Engineering*
*Lawrence Lewis Osborn, A.M., *Instructor in Chemistry*
Edgar Junior Bogan, A.M., *Instructor in Chemistry*
Ralph Albert Sawyer, B.S., *Instructor in Engineering Drafting*
Leonidas Dacosta Stephenson, Jr., B.S., *Instructor in Civil Engineering*
Wilbur Everett Tomlin, A.M., *Instructor in Chemistry*
Warren Herbert Bliss, M.S., *Instructor in Electrical Engineering*
Frederic Thurman Martin, Ph.D., *Instructor in Chemistry*
Cecil Clough Tyrrell, M.S., *Instructor in Mechanical Engineering*
Gertrude Elvira Ebbeson, B.Arch., *Special Lecturer in Engineering Drafting*
Earl Freeman Bennett, S.M., *Special Lecturer in Civil Engineering*
Ernest Mayland Cram, B.S., *Graduate Assistant in Chemistry and Chemical Engineering*
Oscar Thomas Thompson, M.S., *Graduate Assistant in Chemistry and Chemical Engineering*
Stanley Paul Young, B.S., *Graduate Assistant in Personnel*
Herbert Burr Abbott, *Mechanician in Mechanical Engineering*
Ralph Freeman Bowden, *Electrician in Electrical Engineering*

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, various branches of engineering, and pulp and paper technology. The various engineering curricula have been arranged to fit the needs of most students. Although not stated in the outline of courses, bands of electives have been arranged for the student having decided aptitudes or preference, so that a sequence of studies in any one of several groups of non-technical subjects, which will especially train him for work in those fields in which he is interested, may be pursued. These elective groups are: (1) mathematics and science, (2) economics and psychology, (3) history, psychology, and sociology, (4) foreign language, (5) literature.

Those students showing marked inventive or research abilities are guided to studies in mathematics and science; those with tendencies for commercial or managerial work are advised to elect the second or third group; and for

* On leave of absence, 1935-36.

the students with strong preference for language or literature, the fourth and fifth groups are provided.

Orientation lectures, which engineering freshmen are required to attend, and conferences with faculty advisers during his first year are designed to assist the freshman in the final selection of his course.

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
General Engineering Curriculum
Mechanical Engineering Curriculum
Pulp and Paper Technology Curriculum

The following requirements for graduation are common to all curricula in this college:

1. A total of 143 semester hours exclusive of military and physical training. Three of these hours may be for thesis.
2. Drawing, four semester hours.
3. Language: English and Public Speaking, twelve semester hours with a minimum of two semester hours and a maximum of four semester hours of Public Speaking.
4. Mathematics, eighteen semester hours.
5. Military science, seven semester hours. Physical Training, two years.
6. Science: Chemistry, eight semester hours; Physics, ten semester hours.

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

Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he may receive the degree of Master of Science. Five or more years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive a professional degree.

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in engineering who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this

course is to be found at the beginning of the section devoted to General Courses.

MAINE TECHNOLOGY EXPERIMENT STATION

Staff and Assistants

PAUL CLOKE, E.E., Eng.D., *Director*
HAROLD WALTER LEAVITT, C.E., M.S., *Secretary*
WILLIAM EDWARD BARROWS, B.S., E.E., *Professor of Electrical Engineering*
CHARLES ANDREW BRAUTLECHT, Ph.D., *Professor of Chemistry and Chemical Engineering*
PAUL DECOSTA BRAY, B.S., Ch.E., *Professor of Pulp and Paper Technology*
WESTON SUMNER EVANS, M.S., *Professor of Civil Engineering*
WILLIAM JORDAN SWEETSER, S.B., *Professor of Mechanical Engineering*
ARTHUR ST. JOHN HILL, E.E., M.S.E., *Professor of Electrical Engineering*
EMBERT HIRAM SPRAGUE, B.S., *Professor of Sanitary Engineering*
WALTER JOSEPH CREAMER, B.S., E.E., B.A., *Associate Professor of Electrical Communication*
LYLE CLAYTON JENNESS, M.S., *Associate Professor of Chemistry*
WILLIAM LESTER GILLILAND, Ph.D., *Assistant Professor of Chemistry*
CARL EVERETT OTTO, Ph.D., *Assistant Professor of Chemistry*
HUGH DONALD CHASE, S.M., *Assistant Professor of Civil Engineering*
WARREN HERBERT BLISS, M.S., *Instructor in Electrical Engineering*
KARL D. LARSEN, Ph.D., *Instructor in Physics*
EDNA R. BISHOP OTTO, A.M., *Research Assistant*
HORACE ASA PRATT, B.S., *Assistant Engineer*
WILLIAM FRANCIS SCAMMAN, M.A., *Editor of Bulletins*
JOHN H. SWEATT, B.A., *Bituminous Chemist for the State Highway Commission*
CLAYTON LEONARD SAWYER, *Highway Laboratory Assistant*
GIRDLER J. SWETT, JR., B.S., *Highway Laboratory Assistant*
EARL FREEMAN BENNETT, S.M., *Research Assistant*

General Statement

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 Dean of the College of Technology and the heads of the departments.

Income

The income of the Station is derived from University appropriations and from the State Highway Department.

Object

The objects of the Station are to carry on practical research in engineering subjects, make investigations for State boards and municipal authorities, furnish scientific information to the industries of the State, and distribute accurate scientific knowledge to the people of the State.

Equipment

Most of the Station offices and laboratories are at present located in Wingate Hall, described in the section on University buildings. The station is well equipped for the testing of concrete and highway materials, both bituminous and non-bituminous. Crosby laboratory is available for researches in the fields of hydraulics, steam-engineering, gas-engineering, metallography, and strength of materials. The new electrical power laboratory in Lord Hall includes among its equipment a 150,000 volt testing transformer and standard instruments for calibration purposes. The new communication laboratory in this building offers facilities for telephone transmission testing and radio research. The Department of Pulp and Paper Technology in Aubert Hall is equipped for the testing of pulp and paper products. The highway materials laboratory in the basement of Wingate Hall is equipped jointly by the Civil Engineering Department and the Maine State Highway Department.

Investigations

The principal line of research has been in the field of concrete and concrete materials. Some work has also been started in the pulp and paper industry. Researches are also being conducted in the electrical, mechanical, and chemical fields. In the field of concrete materials the Station is coöperating with the American Society for Testing Materials in the statistical analysis of data.

Publications

The Station issues two series of publications: Bulletins and Papers. It has issued thirty-one Bulletins and seventeen Papers. The papers have been

issued as reprints from such technical journals and magazines as: Proc. Nat. Acad. of Sciences, Proc. Am. Soc. for Testing Materials, Proc. Am. Conc. Inst., Proc. Am. Soc. Civil Eng., Electrical Engineering, Journal Me. Assn. of Engrs., Industrial and Engineering Chemistry.

CURRICULA

FRESHMAN YEAR

Common to all engineering courses and Chemistry

Fall Semester					*Spring Semester*				
Subject		Hours			Subject		Hours		
		Rec.	Lab.	Cr.			Rec.	Lab.	Cr.
Ch	1 Gen. Chem. or Adv. Gen. Chem.	2	4	4	Ch	2 Gen. Chem. or Adv. Gen. Chem.	2	4	4
Eh	1 Freshman Comp.	3	0	3	Eh	2 Freshman Comp.	3	0	3
Md	1 Funds. Draft.	0	4	2	Md	2 Ely. Mach. Draft.	0	4	2
Ms	1 Trigonometry	2	0	2	Ms	6 Anal. Geom.	4	0	4
Ms	3 Algebra	2	0	2	Mt	2 Military	2	1	1½
Mt	1 Military	2	1	1½	Ps	2 General Physics	5	2	5
Ps	1 General Physics	5	2	5	Pt	2 Phy. Education	0	2	0
Pt	1 Phy. Education	0	2	0	Gc	6 Orientation	1	0	½
Gc	5 Orientation	1	0	½					

Chemical Engineering Curriculum

This curriculum is offered to furnish training in engineering and chemistry. The first two years are almost identical with those under the Chemistry curriculum, but in the junior and senior years, the students enrolled take, in part, fundamental courses in mechanics, mechanical and electrical engineering, etc., while in the Chemistry curriculum students take subjects having a chemical and general scientific objective. Chemical engineering graduates will be prepared to enter the profession of chemical engineering and to occupy positions as production foremen, research chemists, chemists, and engineers in industrial plants, in Federal and other government civil service laboratories, and in bleacheries, dye houses, chemical plants, rubber works, gas works, sugar refineries, etc. Some chemical engineering students also pursue advanced work and enter the fields of law, medicine, and teaching.

FRESHMAN YEAR

Common to all engineering courses. Outlined above.

The student must register for all courses listed in the first group for his year. Courses not italicized in this group *must be passed* before he is eligible for graduation. Courses in italics, if failed, may have an approved elective substituted for them.

From the elective list the student must select three additional hours of credit in other engineering departments or the equivalent in Chemical Investigation, two in English or Public Speaking, and sufficient additional hours to bring his total to that required by the College, namely, 143 exclusive of Military. See also statements on pages 216 and 217.

SOPHOMORE YEAR

Fall Semester					*Spring Semester*				
Subject		Hours	Lab. Rec. or Comp.	Cr.	Subject		Hours	Lab. Rec. or Comp.	Cr.
Ch 31	Micro-Qual. Anal.	2	8	5	Ch 40	Quant. Anal.	1	8	4
Ms 7	Diff. Calculus	5	0	5	*Me 28*	*Kinematics*	*2*	*0*	*2*
Mt 3	Military	2	1	2	Ms 8	Int. Calculus	5	0	5
Pb 1	Pub. Speaking	2	0	2	Mt 4	Military	2	1	2
Ps 23	*Elec. Meas.*	*0*	*4*	*1½*	*Ps 24*	*Elec. Meas.*	*0*	*4*	*1½*
Pt 3	Phy. Education	0	2	0	Pt 4	Phy. Education	0	2	0
	Electives	—	—	3-5		Electives	—	—	4-6

SUGGESTED ELECTIVE COURSES

Elective Band 1

Ch 37	Hist. of Chem. (2nd 9 wks.)	2	0	1
Fr 5	Adv. French	3	0	3
Gm 1	First-Yr. German	5	0	5
Me 9	Machine Work	0	4	1½

SUGGESTED ELECTIVE COURSES

Elective Band 1

Ch 42	Chem. Eng. Comp.	2	0	2
Ch 44	Metallurgy	3	0	3
Ch 48	Miner. & Crys.	1	4	3
Fr 6	Adv. French	3	0	3
Gm 2	First-Yr. Ger.	5	0	5
Me 10	Machine Work	0	4	1½
Ps 10	Meteorology	3	0	3

		Elective Band 2					Elective Band 2		
Es	1a	Prin. of Econ.....3	0	3	Ce	12	Economic Geog. 3	0	3
Es	1b	Prin. of Econ.....2	0	2	Es	2a	Prin. of Econ....3	0	3
Md	3	Des. Geometry ...0	6	2	Es	2b	Prin. of Econ....2	0	2
					Md	4	Adv. Mach. Drafting 0	6	2
		Elective Band 3					Elective Band 3		
Es	1	Prin. of Sociology 3	0	3	Es	2	Prin. of Soc.....3	0	3
		Elective Band 4					Elective Band 4		
Fr	5	Adv. French 3	0	3	Fr	6	Adv. French 3	0	3
Gm	1	First-Yr. German 5	0	5	Gm	2	First-Yr. Ger....5	0	5
		Elective Band 5					Elective Band 5		
Eh	7	Second-Yr. Comp. 3	0	3	Eh	8	2nd-Yr. Comp. ..3	0	3
					Pb	2	Pub. Speaking...2	0	2

JUNIOR YEAR

Fall Semester					*Spring Semester*				
Subject			Hours Rec.	Lab. or Comp.	Cr.	Subject			Hours Rec.	Lab. or Comp.	Cr.
Ch	51	Organic Chem....3	4		5	Ch	52	Organic Chem...3	4		5
Ch	61	Tech. Anal. 1	8		4	Ch	72	Phys. Chem.....3	4		5
Ch	71	Phys. Chem. 3	4		5	Ch	76	Els. of Chem. Eng. 3	0		3
Mn	53	Mechanics 3	0		3	Ee	30	D. C. Machinery 2	0		2
		Electives .....—	—		0-3	Mn	54	Mechanics 3	0		3
								Electives .....—	—		0-3

Suggested Elective Courses					Suggested Elective Courses				
		Elective Band 1					Elective Band 1		
By	1	Bacteriology and 0	6	3	By	2	Bacteriology 0	6	3
By	3	Bacteriology 2	0	2	Ce	14	Hist. Geology...3	0	3
By	5	Bacteriology 0	2	1	Ch	62	Adv. Quant. Anal. 1	8	4
Ce	13	Phys. Geology....3	0	3	Me	66	Machine Design.2	3	3
Pa	65	Pulp Technology 2	0	2	Ms	56	Diff. Equations..3	0	3
Ps	61	Heat 3	0	3	Pa	66	Paper Tech.....2	0	2
Ps	69	Mod. Phys. Theories 3	0	3					

Elective Band 2

Es	51	Corp. Finance	3	0	3
Es	73	Labor Problems	3	0	3
Ms	17	Invest. Theory	2	0	2
Py	1	Gen. Psychology	2	2	3

Elective Band 3

Py	1	Gen. Psychology	2	2	3

Elective Band 4

		French or German	3	0	3

Elective Band 2

Es	52	Social Con. of Ind.	3	0	3
Ms	18	Invest. Theory	2	0	2
Py	2	Gen. Psychology	2	2	3
Py	12	Advertising	3	0	3

Elective Band 3

Py	2	Gen. Psychology	2	2	3
Py	12	Advertising	3	0	3

Elective Band 4

		French or German	3	0	3

Elective Band 5

Eh	78	Creative Writing	3	0	3

SENIOR YEAR

Fall Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ch	77	Els. of Chem. Eng.	3	0	3
Ch	79	Inorg. Chem. Tech.	2	0	2
Ch	*93*	*Econ. of Chem.*	*2*	*0*	*2*
Ee	31	Alter. Curr.	2	0	2
Ee	33	Elec. Lab.	0	3	1½
Eh	*5*	*Technical Comp.*	*2*	*0*	*2*
Me	43	Heat Engineering	3	0	3
		Electives	—	—	2-6

Spring Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ch	80	Chem. Eng. Lab.	0	5	2
Ch	*94*	*Econ. of Chem.*	*2*	*0*	*2*
Me	40	Mechanical Lab.	0	3	1½
Me	*98*	*Management*	*2*	*0*	*2*
		Electives	—	—	7-11

Suggested Elective Courses					Suggested Elective Courses				
Elective Band 1					Elective Band 1				
Ce	35	Hydraulics	2	0	2	Ce	26	Hydraulics	3	0	3
Ch	49	Thesis	Arr.		1-3	Ch	50	Thesis	Arr.		1-3
Ch	73	Chem. Microscopy	0	6	2	Ch	74	Chem. Microscopy	0	6	2
Ch	91	Adv. Org. Chem.	3	0	3	Ch	92	Adv. Org. Chem.	3	0	3
Ch	95	Thermo. & Electro.	3	0	3	Ch	96	Thermo. & Electro.	3	0	3
		Investigations	Arr.		1-3			Investigations	Arr.		1-3
Gm	15	Scientific German	2	0	2	Gm	16	Sci. German	2	0	2
Mn	101	Adv. Mechanics	2	0	2	Mn	102	Adv. Mechanics	2	0	2
Ms	53	Adv. Calculus	3	0	3	Ms	54	Adv. Calculus	3	0	3
Pa	87	Paper Testing & Analysis	0	4	2						
Elective Band 2					Elective Band 2				
Ce	17	Econ. Geology	2	0	2	Ms	20	Theory of Stat.	2	0	2
Ms	19	Theory of Stat.	2	0	2	Py	82	Mental Measurement	1	4	3
Py	81	Mental Measurement	1	4	3						
Elective Band 3					Elective Band 3				
Hy	21	Cur. World Prob.	2	0	2	Hy	22	Cur. World Prob.	2	0	2
Py	81	Mental Measurement	1	4	3	Py	82	Mental Measurement	1	4	3
Elective Band 4					Elective Band 4				
Gm	15	Scientific German	2	0	2	Gm	16	Sci. German	2	0	2
Elective Band 5					Elective Band 5				
Eh	9	Modern Lit.	2	0	2	Eh	10	Modern Lit.	2	0	2

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed, i.e., Ce 35 and Ce 26.

Students desiring to elect any course not on a suggested list may do so only with approval of the major instructor. Such free electives will be limited in number.

Since every university granting the Ph.D. degree requires a reading knowledge of both French and German, it is advisable for the student who may possibly continue with graduate work to be prepared in this respect.

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 secondary courses having a general scientific objective instead of secondary courses of an engineering type. The curriculum is a broad one and prepares the student for teaching or for the profession of analytical or research chemist in experiment stations, food laboratories, in dye, chemical, fertilizer, and tanning plants; and for many branches of the government civil service, and the general consulting and analytical work of a professional chemist. Some graduates also pursue advanced studies and enter fields of law, medicine, and teaching.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

The student must register for all courses listed in the first group for his year. Courses not italicized in this group must be passed before he is eligible for graduation. Courses in italics, if failed, may have an approved elective substituted for them.

From the elective list the student must select ten additional hours' credit in Chemistry or Biochemistry courses, ten in any other sciences, two in English or Public Speaking, and sufficient additional hours to bring his total to that required by the College, namely, 143, exclusive of Military.

SOPHOMORE YEAR

Fall Semester					*Spring Semester*				
Subject			Hours Rec. or Comp.	Lab. Cr.	Subject			Hours Rec. or Comp.	Lab. Cr.
Ch	31	Micro-Qual. Anal 2	8	5	Ch	40	Quant. Anal. 1	8	4
Ch	*37*	*Hist. of Chem.* (2nd 9 wks) 2	*0*	*1*	Ms	8	Int. Calculus. . . .5	0	5
Ms	7	Diff. Calculus. . . .5	0	5	Mt	4	Military 2	1	2
Mt	3	Military 2	1	2	Pb	2	Pub. Speaking. . .2	0	2
Pt	3	Phy. Education. . .0	2	0	Pt	4	Phy. Education. .0	2	0
		Electives . . . . . —	—	5-8			Electives . . . . . —	—	5-8

Suggested Elective Courses					Suggested Elective Courses				
Elective Band 1					Elective Band 1				
Fr	5	Adv. French 3	0	3	Ch	42	Chem. & Eng. Comp. 2	0	2
Gm	1	First-Yr. German 5	0	5	Ch	44	Metallurgy 3	0	3
Ps	23	Elec. Meas.....0	4	1½	Ch	48	Miner. & Crys...1	4	3
Zo	3	Animal Biology...2	4	4	Fr	6	Adv. French 3	0	3
					Gm	2	First-Yr. Ger....5	0	5
					Ps	10	Meteorology 3	0	3
					Ps	24	Elec. Meas.....0	4	1½
					Zo	4	Animal Biology..2	4	4
Elective Band 2					Elective Band 2				
Es	1a	Prin. of Econ.....3	0	3	Ce	12	Economic Geog..3	0	3
Es	1b	Prin. of Econ.....2	0	2	Es	2a	Prin. of Econ....3	0	3
					Es	2b	Prin. of Econ....2	0	2
Elective Band 3					Elective Band 3				
Es	1	Prin. of Sociology 3	0	3	Es	2	Prin. of Soc.....3	0	3
Elective Band 4					Elective Band 4				
Fr	5	Adv. French 3	0	3	Fr	6	Adv. French 3	0	3
Gm	1	First-Yr. German 5	0	5	Gm	2	First-Yr. Ger....5	0	5
Elective Band 5					Elective Band 5				
Eh	7	Second-Yr. Comp. 3	0	3	Eh	8	2nd-Yr. Comp. ..3	0	3
Pb	1	Pub. Speaking ...2	0	2					

JUNIOR YEAR

Fall Semester					*Spring Semester*				
Subject			Hours Rec. or Comp.	Hours Lab.	Subject			Hours Rec. or Comp.	Hours Lab.
Ch	51	Organic Chem....3	4	5	Ch	52	Organic Chem...3	4	5
Ch	61	Technical Anal...1	8	4	Ch	72	Phys. Chem.....3	4	5
Ch	71	Phys. Chem.....3	4	5	Ch	76	Els. of Chem. Eng. 3	0	3
		Electives .....—	—	4-7			Electives .....—	—	5-8

Suggested Elective Courses

Elective Band 1

By	1	Bacteriology and	0	6	3
By	3	Bacteriology	2	0	2
By	5	Bacteriology	0	2	1
Ce	13	Phys. Geology	3	0	3
Ch	97	Methods of Teach. Chem.	2	0	2
Mn	53	Mechanics	3	0	3
Pa	65	Pulp Technology	2	0	2
Ps	61	Heat	3	0	3
Ps	65	Vacuum Tubes	2	0	2
Ps	69	Mod. Phys. Theories	3	0	3

Elective Band 2

Es	51	Corp. Finance	3	0	3
Es	73	Labor Problems	3	0	3
Ms	17	Invest. Theory	2	0	2
Py	1	Gen. Psychology	2	2	3

Elective Band 3

Py	1	Gen. Psychology	2	2	3

Elective Band 4

Fr. or German	3	0	3

Suggested Elective Courses

Elective Band 1

By	2	Bacteriology	0	6	3
Ce	14	Hist. Geology	3	0	3
Ce	16	Geol. for Eng.	2	0	2
Ch	62	Adv. Quant. Anal.	1	8	4
Ch	98	Methods of Teach. Chem.	2	0	2
Mn	54	Mechanics	3	0	3
Ms	56	Diff. Equations	3	0	3
Pa	66	Paper Technology	2	0	2

Elective Band 2

Es	52	Social Con. of Ind.	3	0	3
Ms	18	Invest. Theory	2	0	2
Py	2	Gen. Psychology	2	2	3
Py	12	Advertising	3	0	3

Elective Band 3

Py	2	Gen. Psychology	2	2	3
Py	12	Advertising	3	0	3

Elective Band 4

Fr. or German	3	0	3

Elective Band 5

Eh	78	Creative Writing	3	0	3

SENIOR YEAR

Fall Semester

Subject	Hours Rec. or Comp.	Lab.	Cr.
Ch 79 Inorg. Chem. Tech.	2	0	2
Ch 93 Econ. of Chem.	*2*	*0*	*2*
Eh 5 Technical Comp.	2	0	2
Electives	—	—	8-12

Spring Semester

Subject	Hours Rec. or Comp.	Lab.	Cr.
Ch 94 Econ. of Chem.	*2*	*0*	*2*
Electives	—	—	15-19

Suggested Elective Courses

Elective Band 1

Bc	51	Biochemistry	3	0	3
Bc	57	Biological Colloids	3	0	3
Ce	17	Econ. Geol.	2	0	2
Ch	49	Thesis	Arr.		1-3
Ch	72	Chem. Microscopy	0	6	2
Ch	89	Organ. Prepns.	0	4	2
Ch	91	Adv. Org. Chem.	3	0	3
Ch	95	Thermo. & Electro-Chem.	3	0	3
		Investigations	Arr.		1-3
Gm	15	Scientific German	2	0	2
Ms	53	Adv. Calculus	3	0	3
Pa	87	Paper Test. & Anal.	0	4	2
Pl	5	Personal Philosophy	3	0	3

Elective Band 2

Ce	17	Econ. Geology	2	0	2
Es	53	Money & Banking	3	0	3
Ms	19	Theory of Stat.	2	0	2
Py	81	Mental Measurement	1	4	3

Elective Band 3

Hy	21	Cur. World Prob.	2	0	2
Py	81	Mental Measurement	1	4	3

Elective Band 4

Gm	15	Scientific German	2	0	2

Elective Band 5

Eh	9	Modern Lit.	2	0	2

Suggested Elective Courses

Elective Band 1

Bc	2	Biochemistry	3	4	5
Ch	50	Thesis	Arr.		1-3
Ch	74	Chem. Microscopy	0	6	2
Ch	80	Chem. Eng. Lab.	0	5	2
Ch	90	Organ. Analysis	0	4	2
Ch	92	Adv. Org. Chem.	3	0	3
Ch	96	Thermo. & Electro-Chem.	3	0	3
		Investigations	Arr.		1-3
Gm	16	Sci. German	2	0	2
Ms	54	Adv. Calculus	3	0	3
Pl	6	Personal Philosophy	3	0	3
Pl	8	Logic	2	0	2

Elective Band 2

Es	16	Business Law	3	0	3
Es	54	Invest. & Invest. Bank.	3	0	3
Me	98	Management	2	0	2
Ms	20	Theory of Stat.	2	0	2
Py	82	Mental Measurement	1	4	3

Elective Band 3

Hy	22	Cur. World Prob.	2	0	2
Py	82	Mental Measurement	1	4	3

Elective Band 4

Gm	16	Sci. German	2	0	2

Elective Band 5

Eh	10	Modern Lit.	2	0	2

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed.

Students desiring to elect any course not on a suggested list may do so only with approval of major instructor. Such free electives will be limited in number.

Since every university granting the Ph.D. degree requires a reading knowledge of both French and German, it is advisable for the student who may possibly continue with graduate work to be prepared in this respect.

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 limited. 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 received only 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.

The work of the first year is the same for all engineering students. 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 elect one of three options. The first, called Option 1, consists of work in hydraulic engineering; the second, Option 2, consists of work in highway engineering; while Option 3 is specialized along the lines of sanitary engineering.

Beginning with the summer of 1936, all Civil Engineering students will be required to attend one Summer Camp of six weeks' duration. The first summer camp will be opened in 1936.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

SOPHOMORE YEAR

Fall Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ce	1	Plane Surveying	3	0	3
Ce	3	Field Work & Plotting	0	9	3
Md	3	Des. Geometry	0	6	2
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pb	1	Pub. Speaking	2	0	2
Pt	3	Phy. Education	0	2	0
		Elective	—	—	—

Spring Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ce	16	Geol. for Engrs.	2	0	2
Ce	32	Sanitary Eng.	2	0	2
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Pb	6	Persuasive Speech	2	0	2
Ps	22	Mechanics & Heat Lab.	0	4	2
Pt	4	Phy. Education	0	2	0
		Elective	—	—	—

JUNIOR YEAR

Fall Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
As	11	Pract. Astron.	2	0	2
Ce	9	R.R. Curves & Earthwork	3	0	3
Ce	23	Adv. Surveying	2	0	2
Ce	25	Eng. Geology	2	2	3
Ce	29	Highway Const.	2	0	2
Mn	51	Mechanics	5	0	5
		Elective	—	—	—

Spring Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Ce	20	Structural & Highway Materials	1	4	3
Ce	26	Hydraulics	3	0	3
Ce	52	Theory & Des. of Steel Structures	5	0	5
Mn	52	Mechanics	5	0	5
		Elective	—	—	—

SUMMER CAMP

Subject	Hours. Cr.
Ce 11s Highway & Railroad Surveys	3
Ce 24s Geodetic & Topographic Surveying	2
Ce 51s Hydrographic Surveying	1

SENIOR YEAR

Fall Semester Subject	Hours Rec.	Lab. or Comp.	Cr.	*Spring Semester* Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce 57 Conc. Structures & Foundations	5	0	5	Ce 60 Drafting	0	6	2
Ce 59 Drafting	0	9	3	Ee 36 Alt. Currents	2	0	2
Ee 35 D. C. Machy	2	0	2	Ee 38 Elec. Lab	0	3	1½
Me 39 Mech. Lab	0	3	1½	Eh 6 Tech. Comp.	2	0	2
				Es 16 Business Law	3	0	3
Highway Option				Highway Option			
Ce 53 Hyd. Eng	0	2	1	Ce 68 Highway Design	0	4	2
Ce 63 Highway Econ	3	0	3	Ce 72 Highway Eng	2	0	2
Hydraulic Option				Hydraulic Option			
Ce 51 Hyd. Eng	0	4	2	Ce 56 Hyd. Eng	0	4	2
Ce 55 Hydrology	2	0	2	Me 78 Hyd. Lab	0	3	1½
Sanitary Option				Sanitary Option			
By 3 Bacteriology	2	0	2	By 2 Bacteriology	0	6	3
Ce 71 Water Supply	2	0	2	Ce 74 Sanitary Eng	2	0	2

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 communication engineering are offered. These aim to provide the student with a thorough understanding of the basic principles of electrical communication, and to familiarize him with the design and operating characteristics of communication systems and component apparatus. Electrical reproduction of sound for motion pictures is also treated, with some emphasis on architectural acoustics, speech, and hearing. Basic work in television and the industrial applications of vacuum tubes are made a part of the laboratory work of the Department.

It is the endeavor of the Department to acquaint the student with contemporary engineering practice, and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.

In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, shop, drawing, and allied engineering courses, together with the humanistic studies enumerated below.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

SOPHOMORE YEAR

Fall Semester

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ee	1	Els. Elec. Eng.	2	5	4
Es	1b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pb	1	Pub. Speaking	2	0	2
Py	1	General Psychology	2	2	3
Pt	3	Phy. Education	0	2	0

Spring Semester

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ee	2	Els. Elec. Eng.	2	5	4
Es	2b	Prin. of Econ.	2	0	2
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Pb	6	Persuasive Speech	2	0	2
Py	2	General Psychology	2	2	3
Pt	4	Phy. Education	0	2	0
		Options (One subject required)			
Ce	2	Plane Surveying	1⅔	⅓	2
Md	4	Adv. Mech. Drafting	0	6	2

JUNIOR YEAR

Fall Semester

Subject	Hours Rec. or Comp.	Lab.	Cr.
Ee 13 Electronics 1	3		2½
Ee 15 El. Cir. & Mach...3	0		3
Ee 17 Elec. Lab.....1	3		2½
Eh 5 Tech. Comp. 2	0		2
Es 53 Money & Banking 3	0		3
or			
Me 9 Machine Work...0	4		1½
or			
Ms 53 Adv. Calculus....3	0		3
Me 27 Kinematics 3	0		3
Mn 53 Mechanics 3	0		3

Spring Semester

Subject	Hours Rec. or Comp.	Lab.	Cr.
Ee 16 El. Cir. & Mach. 3	3		4
Ee 18 Elec. Lab.....1	3		2½
Ee 22 Tel. Com.....3	0		3
Ee 24 Tel. Lab.....0	3		1½
Me 44 Heat Eng. 3	0		3
Mn 54 Mechanics 3	0		3
Options (One subject required)			
Es 54 Invest. & Invest. Bank. 3	0		3
Es 72 Labor Problems 3	0		3
Me 10 Machine Work..0	4		1½
Ms 54 Adv. Calculus...3	0		3
Ms 56 Diff. Equations..3	0		3

SENIOR YEAR

Subject	Hours Rec. or Comp.	Lab.	Cr.
Ee 51 Alt. Cur. Appar...3	4		5
Ee 75 Elec. Lab.....1	3		2½
Me 45 Heat Eng. 3	0		3
Options (Two subjects required)			
Ee 49 Thesis .....Arr.			1-3
Ee 61 Illum. Eng. 3	0		3
Ee 63 Elec. Transp.....3	0		3
Ee 81 Comm. Eng. 0	6		2
Ee 83 Comm. Lab.....0	3		1½
Ee 85 Radio Eng.....1	2		2
Ee 87 Eng. Acoustics ...2	0		2
Ee 91 Theory of Elect...2	0		2
Es 51 Corp. Finance 3	0		3
Me 41 Mech. Lab.....0	3		1½

Subject	Hours Rec. or Comp.	Lab.	Cr.
Options (Six subjects required)			
Ee 50 Thesis .....Arr.			1-3
Ee 56 Elec. Power Plants 3	0		3
Ee 58 Elec. Power Transm. 2	3		3
Ee 60 Adv. Elec. Mach. 3	0		3
Ee 76 Elec. Lab.....1	3		2½
Ee 84 Tel. Transm.....0	6		2
Ee 86 Radio Eng.....3	0		3
Ee 88 Radio Lab.....0	3		1½
Ee 92 Theory of Elect. 2	0		2
Es 16 Business Law ...3	0		3
Me 98 Management 2	0		2

General Engineering Curriculum

This curriculum is designed primarily to permit a selected few, preeminently capable students the opportunity of pursuing a curriculum which gives a broad emphasis on the fundamentals of engineering and to develop themselves along lines of particular aptitudes or choice. The first objective is met by including such studies as organic chemistry, qualitative and quantitative analysis, metallurgy, geology, thermodynamics, the laws of the electric circuit, and the theory of structures. In addition to these studies in technical culture, a sequence of studies in any one of several groups in scientific culture, or liberal culture, is afforded.

These elective groups are: (1) mathematics and science, (2) economics and psychology, (3) history, psychology, and sociology, (4) foreign language, (5) literature.

Those students showing marked inventive or research abilities are guided to studies in mathematics and science; those with tendencies for commercial or managerial work are advised to elect the second or third group; and for the students with strong preference for language or literature, the fourth and fifth groups are provided.

Orientation lectures, which engineering freshmen are required to attend, and conferences with faculty advisers during his first year are designed to assist the freshman in the final selection of his course.

This course is also particularly adapted to the needs of the student who prefers to specialize in a graduate rather than in an undergraduate course and can utilize the latter as preparation for the former. In such a case a student at the beginning of the sophomore year would definitely select certain fundamental studies in one of the four departments: Chemical Engineering, Civil Engineering, Electrical Engineering, or Mechanical Engineering, and pursue, during the course, a sequence of studies in that department.

The Dean of the College is the adviser and registering officer for students in this course.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

SOPHOMORE YEAR

Fall Semester					*Spring Semester*				
Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Ch	31	Micro-Qual. Anal. 2	8	5	Ch	40	Quan. Anal.....1	8	4
Ee	1	Els. Elec. Eng....2	5	4	Ee	2	Els. Elec. Eng...2	5	4
Es	1b	Prin. of Econ.....2	0	2	Es	2b	Prin. of Econ....2	0	2
Ms	7	Diff. Calculus....5	0	5	Ms	8	Int. Calculus....5	0	5
Mt	3	Military 2	1	2	Mt	4	Military 2	1	2
Pt	3	Phy. Education...0	2	0	Pt	4	Phy. Education..0	2	0
		Elective .....—	—	—			Elective .....—	—	—

JUNIOR YEAR

Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Md	3	Des. Geometry ...0	6	2	Ce	16	Geology for Eng. 2	0	2
Me	69	Mech. Lab.....0	3	1½	Ch	44	Metallurgy 3	0	3
Me	79	Heat Eng. 3	0	3	Me	70	Mech. Lab.....0	3	1½
Mn	51	Mechanics 5	0	5	Me	80	Heat Eng. 3	0	3
Pb	1	Pub. Speaking ...2	0	2	Mn	52	Mechanics 5	0	5
		Elective .....—	—	4½			Elective .....—	—	4½

SENIOR YEAR

Subject			Hours		Subject			Hours	
			Rec. or Comp.	Lab. Cr.				Rec. or Comp.	Lab. Cr.
Ce	35	Hydraulics 2	0	2	Ce	52	Theory & Design of Steel Structures 5	0	5
Me	55	Kinematics 3	3	4					
Me	71	Mech. Lab. 0	3	1½	Me	72	Mech. Lab.....0	3	1½
Me	81	Heat Eng. 2	3	3	Me	82	Heat Power.....3	0	3
		Elective .....—	—	—			Elective .....—	—	—

The above curriculum is designed for students desiring to pursue mechanical engineering subjects. Similar curricula will be arranged for those interested in other subjects.

Mechanical Engineering Curriculum

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

The Mechanical Engineering curriculum is arranged to equip men as well as possible in four years' time to enter any of these lines of work.

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

The theoretical work is taught by lectures and recitations. The texts are carefully chosen and are supplemented, where necessary to illustrate more recent practice, by explanation and examples given by the instructor. Numerous problems are assigned for work outside the classroom to make sure the student can apply the principles learned.

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

Thorough instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

SOPHOMORE YEAR

Fall Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Es	1b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2
Me	1	Foundry & Forging	0	6	2
Me	21	Els. Mech. Eng.	2	0	2
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Pb	1	Pub. Speaking	2	0	2
Ps	21	Mech. & Heat Lab.	0	4	2
Pt	3	Phy. Education	0	2	0

Spring Semester

Subject			Hours Rec.	Lab. or Comp.	Cr.
Es	2b	Prin. of Econ.	2	0	2
Md	4	Adv. Mach. Drafting	0	6	2
Me	2	Pattern Work	0	6	2
Me	38	Mech. Lab.	0	3	1½
Me	32	Materials of Eng.	2	0	2
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Pb	4	Debate or option	2	0	2
Pt	4	Phy. Education	0	2	0

JUNIOR YEAR

Subject			Hours Rec.	Lab. or Comp.	Cr.
Es	73	Labor Problems or Option	3	0	3
Me	7	Machine Work	0	6	2
Me	55	Kinematics	3	3	4
Me	69	Mech. Lab.	0	3	1½
Me	79	Heat Eng.	3	0	3
Mn	51	Mechanics	5	0	5

Subject			Hours Rec.	Lab. or Comp.	Cr.
Eh	6	Tech. Comp.	2	0	2
Me	8	Machine Work	0	6	2
Me	66	Machine Design	2	3	3
Me	70	Mech. Lab.	0	3	1½
Me	80	Heat Eng.	3	0	3
Me	82	Heat Power or Option	3	0	3
Mn	52	Mechanics	5	0	5

SENIOR YEAR

Fall Semester				*Spring Semester*			
Subject	Hours Rec. or Comp.	Lab.	Cr.	Subject	Hours Rec. or Comp.	Lab.	Cr.
Ce 35 Hydraulics	2	0	2	Ee 36 Alt. Currents	2	0	2
Ee 35 D. C. Machy.	2	0	2	Ee 38 Elec. Lab.	0	3	1½
Me 71 Mech. Lab.	0	3	1½	Me 50 Thesis (or Option)	Arr		3
Me 81 Heat Eng.	2	3	3	Me 72 Mech. Lab.	0	3	1½
Me 87 Machine Design	0	6	2	Me 86 Power Plants	3	0	3
Me 91 Heat & Vent.	2	0	2	Me 88 Dynamics of Machines (or Option)	2	3	3
Me 93 Gas Engines	3	0	3	Me 98 Management	2	0	2
Py 3 App. Psychol. (or Option)	3	0	3				

Administrative Engineering Option for Mechanical Engineers

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

SOPHOMORE YEAR

Subject	Hours Rec. or Comp.	Lab.	Cr.	Subject	Hours Rec. or Comp.	Lab.	Cr.
Es 1a Prin. of Econ.	3	0	3	Es 2a Prin. of Econ.	3	0	3
Es 9 Accounting	3	0	3	Es 10 Accounting	3	0	3
Md 3 Des. Geometry	0	6	2	Md 4 Adv. Mach. Drafting	0	6	2
Me 1 Foundry & Forging	0	6	2	Me 2 Pattern Work	0	6	2
Ms 7 Diff. Calculus	5	0	5	Me 32 Materials of Eng.	2	0	2
Mt 3 Military	2	1	2	Ms 8 Int. Calculus	5	0	5
Pb 1 Pub. Speaking	2	0	2	Mt 4 Military	2	1	2
Pt 3 Phy. Education	0	2	0	Pt 4 Phy. Education	0	2	0

JUNIOR YEAR

Fall Semester				*Spring Semester*			
Subject	Hours	Lab. Rec. or Comp.	Cr.	Subject	Hours	Lab. Rec. or Comp.	Cr.
Ee 35 D. C. Machy	2	0	2	Ee 36 Alt. Currents	2	0	2
Es 53 Money & Banking	3	0	3	Ee 38 Elec. Lab.	0	3	1½
Me 7 Machine Work	0	6	2	Me 8 Machine Work	0	6	2
Me 55 Kinematics	3	3	4	Me 66 Machine Design	2	3	3
Me 69 Mech. Lab.	0	3	1½	Me 70 Mech. Lab.	0	3	1½
Me 79 Heat. Eng.	3	0	3	Me 80 Heat Eng.	3	0	3
Mn 53 Mechanics	3	0	3	Mn 54 Mechanics	3	0	3
				Pb 4 Debate or option	2	0	2

SENIOR YEAR

Subject	Hours	Lab. Rec. or Comp.	Cr.	Subject	Hours	Lab. Rec. or Comp.	Cr.
Es 51 Corp. Finance	3	0	3	Eh 6 Tech. Comp.	2	0	2
Es 55 Business Law	3	0	3	Es 54 Invest. & Invest. Bank.	3	0	3
Me 71 Mech. Lab.	0	3	1½	Me 72 Mech. Lab.	0	3	1½
Me 83 Industrial Management	4	0	4	Me 84a Industrial Eng.	2	0	2
Me 85 Indus. Relations	2	0	2	Me 84b Industrial Eng. Problems	0	4½	1½
Me 87 Machine Design	0	6	2	Me 90 Eng. Cost Accounting	2	3	3
Electives	—	—	3-4	Electives	—	—	3-4

SUGGESTED ELECTIVES

Me 81 Heat Eng.	2	3	3	Me 50 Thesis	Arr		3
Me 91 Heat & Vent.	2	0	2	Me 86 Power Plants	3	0	3
Me 93 Gas Engines	3	0	3	Me 88 Dynamics of Machines	2	3	3
				Me 94 Hydraulic Machinery	3	0	3

Pulp and Paper Technology Curriculum

This curriculum is offered to furnish training in the fundamentals of mathematics, chemistry, engineering, and pulp and paper technology. The first two years are identical with those under the Chemical Engineering curriculum, but in the junior and senior years the students enrolled take, in part, fundamental courses in mechanics, mechanical and electrical engineering, and pulp and paper technology. Pulp and Paper Technology graduates will be prepared to occupy positions as production foremen, salesmen, research chemists, and works-control chemists in pulp and paper plants and in allied industries.

FRESHMAN YEAR

Common to all engineering courses and Chemistry. See page 220.

SOPHOMORE YEAR

Same as Chemical Engineering. See page 221.

JUNIOR YEAR

Fall Semester

Subject	Hours Rec.	Lab. or Comp.	Cr.
Bt 43 Wood Iden.	0	3	1
Ch 51 Organic Chem.	3	4	5
Ch 71 Phys. Chem.	3	4	5
Mn 53 Mechanics	3	0	3
Pa 65 Pulp. Tech.	2	0	2
Pa 67 Pulp Mfg. (9 wks.)	0	8	2
Electives	—	—	0-4

Spring Semester

Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch 52 Organic Chem.	3	4	5
Ch 72 Phys. Chem.	3	4	5
Ch 76 Els. of Chem. Eng.	3	0	3
Ee 30 D. C. Machinery	2	0	2
Mn 54 Mechanics	3	0	3
Pa 66 Paper Tech.	2	0	2
Pa 68 Paper Mfg. (9 wks.)	0	8	2
Electives	—	—	0-3

Suggested Elective Courses

Elective Band 1

By	1	Bacteriology and	0	6	3
By	3	Bacteriology	2	0	2
By	5	Bacteriology	0	2	1
Ce	13	Phys. Geology	3	0	3
Ch	61	Tech. Anal.	1	8	4
Ps	61	Heat	3	0	3
Ps	69	Mod. Phys. Theories	3	0	3

Elective Band 2

Es	51	Corp. Finance	3	0	3
Es	73	Labor Problems	3	0	3
Ms	17	Invest. Theory	2	0	2
Py	1	Gen. Psychology	2	2	3

Elective Band 3

Py	1	Gen. Psychology	2	2	3

Elective Band 4

		French or German	3	0	3

Suggested Elective Courses

Elective Band 1

By	2	Bacteriology	0	6	3
Ce	14	Hist. Geology	3	0	3
Ch	62	Adv. Quant. Anal.	1	8	4
Me	66	Machine Design	2	3	3
Ms	56	Diff. Equations	3	0	[illegible]

Elective Band 2

Es	52	Social Con. of Ind.	3	0	3
Ms	18	Invest. Theory	2	0	2
Py	2	Gen. Psychology 2	2	2	3
Py	12	Advertising	3	0	3

Elective Band 3

Py	2	Gen. Psychology 2	2	2	3
Py	12	Advertising	3	0	3

Elective Band 4

		French or German	3	0	3

Elective Band 5

Eh	78	Creative Writing	3	0	3
Pb	4	Debating	2	0	2

SENIOR YEAR

Fall Semester

Subject		Hours	Lab. Rec. or Comp.	Cr.
Ch 77	Els. of Chem. Eng.	3	0	3
Ch 93	*Econ. of Chem. and Ch.E.*	*2*	*0*	*2*
Ee 31	Alter. Curr.	2	0	2
Ee 33	Elec. Lab.	0	3	1½
Eh 5	Technical Comp.	2	0	2
Me 43	Heat Engineering	3	0	3
Pa 85	Cellulose	0	4	2
Pa 87	Paper Testing	0	4	2
	Electives	—	—	0-4

Suggested Elective Courses

Elective Band 1

Ce 35	Hydraulics	2	0	2
Ch 73	Chem.-Microscopy	0	6	2
Ch 79	Inorg. Chem. Tech.	2	0	2
Ch 91	Adv. Org. Chem.	3	0	3
Ch 95	Thermo. & Electro-Chem.	3	0	3
Gm 15	Scientific German	2	0	2
Mn 101	Adv. Mechanics	2	0	2
Ms 53	Adv. Calculus	3	0	3
Pa 49	Thesis	Arr.		1-3

Elective Band 2

Ce 17	Econ. Geology	2	0	2
Ms 19	Theory of Stat.	2	0	2
Py 81	Mental Measurement	1	4	3

Spring Semester

Subject		Hours	Lab. Rec. or Comp.	Cr.
Ch 80	Chem. Eng. Lab. 1	4		2
Ch 94	*Econ. of Chem. and Ch.E.*	*2*	*0*	*2*
Me 40	Mechanical Lab. 0	3		1½
Me 98	*Management*	*2*	*0*	*2*
Pa 82	Paper Color (9 wks.)	0	8	2
Pa 86	Pulp Bleach (9 wks.)	0	8	2
	Electives	—	—	0-7

Suggested Elective Courses

Elective Band 1

Ce 26	Hydraulics	3	0	3
Ch 74	Chem.-Microscopy	0	6	2
Ch 92	Adv. Org. Chem.	3	0	3
Ch 96	Thermo. & Electro-Chem.	3	0	3
Gm 16	Sci. German	2	0	2
Mn 102	Adv. Mechanics	2	0	2
Ms 54	Adv. Calculus	3	0	3
Pa 50	Thesis	Arr.		1-3

Elective Band 2

Ms 20	Theory of Stat.	2	0	2
Py 82	Mental Measurement	1	4	3

	Elective Band 3					Elective Band 3			
Hy	21	Cur. World Prob.	2	0	2	Hy	22	Cur. World Prob.	2	0	2
Py	81	Mental Measurement	1	4	3	Py	82	Mental Measurement	1	4	3
		Elective Band 4						Elective Band 4			
Gm	15	Scientific German	2	0	2	Gm	16	Sci. German	2	0	2
		Elective Band 5						Elective Band 5			
Eh	9	Modern Lit.	2	0	2	Eh	10	Modern Lit.	2	0	2
						Pb	12	Bus. & Prof. Speaking	3	0	3

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed, i.e., Ce 35 and Ce 26.

The student must register for all courses listed in the first group for his year. Courses not italicized in this group *must be passed* before he is eligible for graduation. Courses in italics may have an approved elective substituted for them.

Required for graduation: a total of 143 semester hours exclusive of Military and Physical Training. Three of these hours may be for thesis.

Departments of Instruction

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 51-100 are for graduates and undergraduates; courses numbered above 100 are for graduates.

CHEMISTRY AND CHEMICAL ENGINEERING

Associate Professor Jenness (Acting Department Head); Professor Brautlecht; Associate Professor Brann; Assistant Professor Otto; Assistant Professor Gilliland; Mr. Osborn; Mr. Bogan; Mr. Tomlin; Mr. Martin

1, 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Lecture, *one hour a week;* recitation, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.*

Mr. Jenness and Members of the Departmental Staff

1a, 2a. General Chemistry.—A course similar to Course 1, 2, but for students who have not submitted units in chemistry for entrance requirements. Lecture and recitation, *three hours a week* (the second recitation period is optional for those students doing satisfactory work); laboratory, *four hours a week.* One breakage card. *Four credit hours,* equivalent to 1, 2. Mr. Jenness and Members of the Departmental Staff

5. Inorganic Chemistry.—For Home Economics students only. More of the laboratory time is devoted to drill on inorganic principles than in Course 1, 2. Classroom, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* Mr. Bogan, Mr. Gilliland

31. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principles of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. Lectures and recitations, *three hours a week to mid-semester and one hour a week thereafter;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* Mr. Otto

37. History of Chemistry.—The origin, development, and applications of the more important chemical theories and principles. Prerequisite, Course 1, 2. Recitation, *two hours a week in second half-semester only. One credit hour.* Mr. Gilliland

40. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 31. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Otto

42. Chemical and Engineering Computations.—Computation procedures employed by chemists and chemical engineers, including use of slide rule and logarithms. Lectures and recitations, *two hours a week. Two credit hours.* Mr. Otto

44. Metallurgy.—An introductory study dealing with iron, steel, and the common metals and alloys. Prerequisite, Course 1, 2; Course 31 desirable. Classroom, *three hours a week. Three credit hours.* Mr. Martin

46. Sanitary Chemistry.—For Civil Engineering students taking the Sanitary Engineering option, and other qualified students. (*Two credit hours* only for Chemistry majors.) Fundamental topics of water purification and waste disposal. Prerequisite, Course 1, 2. Lectures and recitations, *two hours a week;* laboratory, *three hours a week. One breakage card. Three credit hours.* Mr. Bogan, Mr. Brann, Mr. Gilliland

48. Mineralogy and Crystallography.—This course is offered only in alternate years of even number. Prerequisite, Chemistry 31. Classroom, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Three credit hours.* Mr. Chase

49, 50. 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. Hours arranged. *One to three credit hours.*

The Departmental Staff

51, 52. Organic Chemistry.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 31 or at least C grades in Courses 1, 2. Classroom, *three hours a week;* laboratory, *four hours a week.* Two breakage cards. *Five credit hours.*

Mr. Gilliland, Mr. Osborn

61. Technical Analysis.—Application of gravimetric and volumetric methods of analysis to some of the more difficult problems of separation and determination, and to technical products such as fuels and alloys. Prerequisite, Course 40. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Brann, Mr. Bogan

62. Advanced Quantitative Analysis.—The further application of volumetric and gravimetric methods, etc. Prerequisite, Course 40. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* Mr. Brann, Mr. Bogan

71, 72. Physical Chemistry.—This is a course in the detailed study of fundamental principles of chemistry and the application of them to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 40 and Physics 1, 2. Calculus is very desirable. Classroom, *three hours a week;* laboratory, *four hours a week.* One breakage card. *Five credit hours.*
Mr. Brann, Mr. Tomlin

73, 74. Chemical Microscopy.—The technique of handling and analyzing samples of very small size. Chemical and physical changes, crystalline form, density and refractive index observed under the microscope. Unknowns, permanent slides, microphotographs, micromeasurements, etc. Prerequisite, Course 40. Laboratory, *six hours a week.* One breakage card. *Two credit hours.* Mr. Otto

76, 77. Elements of Chemical Engineering.—A study of the application of unit operations to engineering practice such as heat transfer, evaporation, and distillation. Prerequisite, Course 71. Classroom, *three hours a week. Three credit hours.* Mr. Caulfield

79. Inorganic Chemical Technology.—The course includes sufficient descriptive matter concerning selected industrial processes, illustrative in part of unit operations in the production of ammonia, sulfuric acid, paints, etc., to enable the solution of plant problems incident to these processes. Prerequisite, Course 72. Classroom, *two hours a week. Two credit hours.*
Mr. Martin

80. Chemical Engineering Laboratory.—The practice in unit operations and processes, particularly those emphasized in Courses 76, 77. Form reports are an essential part. Prerequisite, Course 76. Classroom, *one hour a week;* laboratory, *four hours a week. Two credit hours.*
Mr. Martin, Mr. Caulfield

89. Organic Preparations.—The preparation of a large number of typical organic compounds. Prerequisite, Course 51, 52. Laboratory, *four hours a week. Two credit hours.* Mr. Gilliland

90. Organic Analysis.—Qualitative and quantitative determination in organic compounds of carbon, hydrogen, oxygen, nitrogen, sulphur, phosphorus, the halogens, etc. Courses 40, 51, and 52 are prerequisites. Laboratory, *four hours a week. Two credit hours.* Mr. Gilliland

91, 92. Advanced Organic Chemistry.—A course involving the general and also special topics of organic chemistry. Prerequisite, Course 51, 52. Recitation, *three hours a week. Three credit hours.* Mr. Gilliland

93, 94. Economics of Chemistry and Chemical Engineering.—Economic relationships of chemistry as applied in industry; designed to acquaint the student with fundamentals pertaining to the supply and demand of chemical products; production and distribution costs, prices, markets; plant location and design, evolution of the chemical industries, unit process costs, management, operation and control. Text, problems, reports, and current journal assignments. Prerequisite, Course 71. Classroom, *two hours a week. Two credit hours.* Mr. Brautlecht

95, 96. Thermodynamics and Electrochemistry.—A brief study of the laws of thermodynamics as applied to chemical problems; free energy and its applications; the electrochemistry of solutions; the more important industrial applications of electrochemistry. Prerequisite, Course 71, 72. Lectures and recitations, *three hours a week. Three credit hours.* Mr. Brann

97, 98. Methods of Teaching Chemistry.—A course for prospective teachers of chemistry which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstrations, lesson plans, testing programs; texts, laboratory manuals; grading and scoring; bibliography. Text, problems, and journal assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or equivalent. Classroom, *two hours a week. Two credit hours.* Mr. Brautlecht

101, 102. Investigations in Organic Chemistry.—*Time arranged. One to three credit hours.* Mr. Brautlecht or Mr. Gilliland

103, 104. Investigations in Physical Chemistry.—*Time arranged. One to three credit hours.* Mr. Brann, Mr. Jenness

105, 106. Investigations in Analytical Chemistry.—*Time arranged. One to three credit hours.* Mr. Brann, Mr. Otto

107, 108. Microchemical Investigations.—*Time arranged. One to three credit hours.* Mr. Otto

109, 110. Investigations in Cellulose Chemistry.—*Time arranged. One to three credit hours.* Mr. Brautlecht

Equipment obtained and receipted for by a student and not returned at the end of a course in good condition, as well as a few non-returnable supplies and a few special chemicals, will be charged to the student at cost.

The supply room will be open during all laboratory periods. Breakage cards may be obtained only at the Treasurer's office, and all students taking chemical laboratory courses are required to have one or more. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the chemistry storeroom.

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

For requirements leading to the degree of Bachelor of Arts in Chemistry, see section devoted to the College of Arts and Sciences.

CIVIL ENGINEERING

Professor Evans; Professor Sprague; Associate Professor Lyon; Associate Professor Leavitt; Assistant Professor Chase; Mr. Felker; Mr. Stephenson; Mr. Bennett

1. Plane Surveying.—Recitations and lectures covering the general theory of plane surveying and plotting. A study of surveying instruments, their adjustments and use, followed by a study of the methods commonly used for surveying and plotting. Classroom, *three hours a week. Three credit hours.* Mr. Felker, Mr. Stephenson

2. Plane Surveying.—Recitations and lectures covering surveying instruments and their use followed by a discussion of the various methods commonly used for Plane Surveying. Prerequisite, Mathematics 1. Classroom, *two hours a week for twelve weeks;* field work, *three hours a week* and classroom *one hour a week for six weeks. Two credit hours.* Mr. Stephenson

3. Field Work and Plotting.—This course consists of practice in the use of the chain, tape, compass, transit, and level, followed by practice in the common methods of map drawing. Field and drawing room, *nine hours a week. Three credit hours.* Mr. Felker, Mr. Stephenson

6. Land Surveying.—This course is designed to familiarize the student with the methods employed by the General Land Office for laying out public lands and with such other methods as may have been used by the various states. Prerequisites, Courses 1 and 3. Classroom, *two hours a week;* field work, *nine hours a week during the last six weeks. Three credit hours.* Mr. Stephenson

8. Construction Surveying.—A course covering the various problems which the man surveying for various types of construction encounters. The legal aspect of surveying, methods employed, and the necessary computations are studied. Prerequisites, Courses 1 and 3. Classroom, *two hours*

a week; field work, *nine hours a week during the last six weeks. Three credit hours.* MR. LYON

9. RAILROAD CURVES AND EARTHWORK.—A course of recitations and lectures investigating the geometry of railroad curves, switches, and turnouts; also the field and office practice of staking out and computing earthwork, and the methods and materials of railroad construction, subgrade, roadbed, track and track work. Prerequisites, Courses 1 and 3. Classroom, *three hours a week. Three credit hours.* MR. EVANS

12. ECONOMIC GEOGRAPHY.—An investigation of the geographical character and economic resources of various subdivisions of the world as determining their position in world trade and commerce. The subject includes such factors as geography, history, natural resources, economics, manufacturing, and customs as they affect trade relation. Classroom, *three hours a week. Three credit hours.* MR. CHASE

13. PHYSICAL GEOLOGY.—An introduction to the dynamical and structural features of geology. The materials and structures and the geological agents and processes which act upon the materials are treated in a general manner. The relationship of these features of geology to mankind is presented throughout the course. Classroom, *three hours a week. Three credit hours.* MR. CHASE

14. HISTORICAL GEOLOGY.—A study of the past history of the Earth. The distribution of land and sea areas, the prevailing type of rock and climatic conditions through each successive period. The type of life, its development, and the characteristics of each age are discussed. Prerequisite, Course 13 or 16. Classroom, *three hours a week. Three credit hours.* MR. CHASE

16. GEOLOGY FOR ENGINEERS.—An introductory course to Engineering Geology covering a study of the various dynamical and geological agents involved in the modification of the outer surface of the earth. Classroom, *two hours a week. Two credit hours.* MR. CHASE

17. ECONOMIC GEOLOGY.—An introductory course to economic mineral deposits. The general classification, structure, and occurrence of ore deposits are briefly covered. The study of metallic and non-metallic deposits includes the history, uses, composition, characteristics, and distribution of the common economic materials of industry and commerce. Classroom, *two hours a week. Two credit hours.* MR. CHASE

20. STRUCTURAL AND HIGHWAY MATERIALS.—Laboratory and recitations covering the methods of testing, characteristics of and specifications for the materials commonly used for structural and highway purposes. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* MR. LEAVITT, MR. SPRAGUE, MR. FELKER, MR. STEPHENSON

23. 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 and sextant, the theory and application of least squares, and map projection. It is a preparation for Course 24s. Prerequisites, Courses 1 and 3. Lecture, recitation, and problems, *two hours a week. Two credit hours.* Mr. Lyon

25. Engineering Geology.—An intense megascopic study and classification of the common rocks and rock minerals and their identification in the field, combined with a map-reading course to study the characteristics and development of land forms and the methods of interpretation of topographic maps. Prerequisite, Course 16. Classroom, *two hours a week;* laboratory or field, *two hours a week. Three credit hours.* Mr. Chase

26. Hydraulics.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. Prerequisite, Mechanics 51. Classroom, *three hours a week. Three credit hours.* Mr. Lyon

29. Highway Construction.—The construction and maintenance of city pavements and country roads under various conditions of traffic, climate, soil, etc. Prerequisites, Courses 1 and 9. Recitation, *two hours a week. Two credit hours.* Mr. Leavitt

32. Sanitary Engineering.—The general principles of sewer design and construction, and sewage disposal; a study of city sanitation. Classroom, *two hours a week. Two credit hours.* Mr. Sprague

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. Prerequisite, Mechanics 51. Classroom, *two hours a week. Two credit hours.* Mr. Lyon

49, 50. Thesis Work.—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees. *Three credit hours.* Mr. Evans

51. Hydraulic Engineering, Office Work.—From notes previously taken in the field, rating curves and vertical velocity curves are plotted and studied and discharge measurements are computed; also problems in hydrology, water storage, and water power are studied. Prerequisites, Courses 26 and 51s. Course 55 must be concurrent. Drawing room, *four hours a week. Two credit hours.* Mr. Lyon

52. Theory and Design of Steel Structures.—This course involves the determination of stresses and strain in beams, girders, and trusses under

the usual systems of loading. Students are required to make a complete design of several types of structures. Prerequisite, Mechanics 51. *Five hours a week. Five credit hours.* MR. EVANS

53. HYDRAULIC ENGINEERING, OFFICE WORK.—A course similar to but shorter than Course 51. Prerequisites, Courses 26 and 51s. Drawing room, *two hours a week. One credit hour.* MR. LYON

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. Prerequisite, Course 26. Classroom, *two hours a week. Two credit hours.* MR. LYON

56. HYDRAULIC ENGINEERING.—A continuation of Courses 51 and 55. The development and utilization of water power; the modern turbine; inspection of hydro-electric plants. Drawing room, *four hours a week. Two credit hours.* MR. LYON

57. CONCRETE STRUCTURES AND FOUNDATIONS.—This course covers the design and construction of plain and reinforced concrete structures with due consideration for preparing the foundation to receive such structures. Prerequisite, Mechanics 51. *Five hours a week. Five credit hours.* MR. EVANS

59. DRAFTING.—This course consists of detailing the structures designed in Course 52. Drawing room, *nine hours a week. Three credit hours.* MR. SPRAGUE

60. DRAFTING.—The structures designed in Course 57 are detailed in this course. *Six hours a week. Two credit hours.* MR. SPRAGUE

62. SOIL MECHANICS.—A study of the fundamental principles underlying Soil Mechanics with application to practical foundation problems. Prerequisite, Mechanics 51 or 53. Classroom, *three hours a week for the first eight weeks. One and one-half credit hours.* MR. BENNETT

63. HIGHWAY ECONOMICS.—State highway and municipal highway management as they affect organization, administration, and finance of streets and highways; economic factors of highway location, design, and operation; traffic and operation expenses. Prerequisites, Courses 29 and 11s. *Three hours a week. Three credit hours.* MR. LEAVITT

68. HIGHWAY DESIGN.—Drawing room study of highway location and relocation, including plans of proposed improvement and construction of about five miles of highway with detailed estimates and specifications for the same. Also design of street intersections. Prerequisite, Course 63. Drawing room, *four hours a week. Two credit hours.* MR. LEAVITT

71. WATER SUPPLY.—This course deals with the requirements of a community for pure drinking water. It makes a study of sources of supply,

quality, and purification of water; the engineering works necessary for its transportation; water-borne diseases; fire service. Prerequisite, Course 32. Classroom, *two hours a week. Two credit hours.* MR. SPRAGUE

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. Prerequisite, Course 63. Classroom, *two hours a week. Two credit hours.* MR. LEAVITT

74. SANITARY ENGINEERING.—Lectures and recitations dealing with municipal and rural sanitation. Sanitation of milk and other foods; control of mosquitoes, flies, and rodents. Prerequisite, Course 32. Classroom, *two hours a week. Two credit hours.* MR. SPRAGUE

80. STRUCTURAL GEOLOGY.—A study of the principles and theories of the conditions and processes affecting the materials and structures of the Earth. The development of the types of structures found in rocks, the mechanics of their formation, interpretation, and application to other geological problems. Prerequisites, Courses 16 and 25. Classroom, *two hours a week. Two credit hours.* MR. CHASE

82. ADVANCED ENGINEERING GEOLOGY.—The study and application of geology to the engineering phases of construction problems. Such subjects as river improvement, shore line protection, ground water, quarrying, earthquakes, dams and reservoirs are considered. Prerequisites, Courses 16 and 25. Classroom, *three hours a week. Three credit hours.* MR. CHASE

102. THEORY OF STRUCTURES.—This course involves the determination of stresses in statically indeterminate structures. It is a continuation of Course 52 and is open only to those men who have passed that course or its equivalent satisfactorily. Classroom, *three hours a week. Three credit hours.* MR. EVANS

Courses To Be Offered at Summer Camp

7s. HIGHWAYS AND RAILROADS.—Preliminary and location surveys for railways and highways, particularly forest highways. Grades are established and grade stakes set. The preparation of maps from notes previously taken and calculations of earthwork. Trail location and construction. Prerequisites, Courses 1 and 3. *Two credit hours.*

11s. HIGHWAY AND RAILROAD SURVEYS.—This course consists of making preliminary and location surveys for a highway and a railroad, each approximately two miles in length, establishing grades and setting grade stakes.

The notes are plotted and calculations are made as to the amount of earthwork. Prerequisites, Courses 1, 3, and 9. *Three credit hours.*

24s. Geodetic and Topographic Surveying.—This field work consists of making topographic surveys with the transit and plane table, including triangulation, the use of sextant, trigonometric levelling and the traverse plane table. The drafting room work consists of making computations and drawings necessary to interpret the results of the field observations. Prerequisites, Courses 1, 3, and 23. *Two credit hours.*

51s. Hydrographic Surveying.—(a) *Stream Gauging.* This course is planned to instruct the student in the principles underlying the measurement of flow of water in open channels. (b) *Soundings.* This course takes up the methods of making soundings and practices the use of surveying instruments for locating them. Prerequisite, Course 26. *One credit hour.*

ELECTRICAL ENGINEERING

Professor Barrows; Professor Hill; Associate Professor Creamer; Assistant Professor Roberts; Mr. Crabtree; Mr. Bliss

1, 2. Elements of Electrical Engineering.—Fundamental laws and principles of electricity; series and parallel circuits; the magnetic circuit; dielectric circuit; conduction through electrolytes and gases; thermionics; instrument calibration; electrical measurements. Recitations and problems. Classroom, *two hours a week;* computation, *three hours a week;* laboratory, *two hours a week. Four credit hours.*

Mr. Barrows, Mr. Creamer, Mr. Bliss

5a, 6a. Household Equipment.—Physical principles, use, and selection of various household appliances. Elementary principles of heat and electricity, household heating and ventilating systems, laundry procedure, refrigerators, all types of kitchen ranges, and all small electrical appliances are considered. Course intended for senior Home Economics students. Lectures, recitations, and laboratory. Classroom or laboratory, *two two-hour periods a week.* Fall semester, *three credit hours.* Spring semester, *two credit hours.* Mr. Bliss

13. Electronics.—The theory of electron tubes; hard vacuum diodes, triodes, tetrodes, pentodes, photocells, etc.; gaseous tubes utilizing neon, argon, and mercury vapor; arcs, corona, and other discharges; tube detectors, amplifiers, oscillators, and associated circuits; functioning of the dynatron and magnetron; crystal and magneto-striction oscillators; electrical measure-

ments; industrial applications. Prerequisite, Course 2. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.*

MR. CRABTREE

15, 16. ELECTRIC CIRCUITS AND MACHINERY.—Fundamental theory of sinusoidal alternating currents, including representation by vectors and solutions by trigonometric and algebraic methods. Underlying principles and circuit problems common to all types of electrical apparatus; design and performance of direct-current machinery. Theory of polyphase alternating-current systems, non-sinusoidal wave forms, and electrical transmission. Introduction to the analysis of transient phenomena. Lectures, recitations, and problems. Prerequisite, Course 2. Fall semester: classroom, *three hours a week. Three credit hours.* Spring semester: classroom, *three hours a week.* Computation, *three hours a week. Four credit hours.* MR. HILL

17, 18. ELECTRICAL LABORATORY.—Electrical measurements; operation and testing of direct-current generators and motors. Introductory experiments of alternating-current circuits and machines. Application of the work of Courses 1, 2, 15, and 16. Prerequisite, Course 2; Courses 15 and 16 are concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. ROBERTS, MR. CRABTREE

22. TELEPHONE COMMUNICATION.—Characteristics of speech: the hearing mechanism; mechanical and electrical characteristics of telephone apparatus; the subscriber's set; common battery and local battery circuits; dial systems; repeaters; traffic studies. Lectures and recitations. Prerequisite, Course 15. Course 24 is required concurrently. Classroom, *three hours a week. Three credit hours.* MR. BLISS

24. TELEPHONE LABORATORY.—Microphonic efficiency of telephone apparatus; measurements of articulation and audition; local and common battery systems; phantom and composite circuits; repeaters; transmission testing. Course 22 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. BLISS

30, 35. DIRECT-CURRENT MACHINERY.—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the civil, mechanical, and chemical engineer. Recitations and problems. Classroom, *two hours a week. Two credit hours.*

MR. ROBERTS, MR. CRABTREE

31, 36. ALTERNATING CURRENTS.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. Prerequisite, Course 30 or 35. Classroom, *two hours a week. Two credit hours.* MR. ROBERTS, MR. CRABTREE

33, 38. Electrical Laboratory.—These courses are based on Courses 30, 31, 35, and 36. Operations of direct-current and alternating-current generators and motors; electrical power measurements. Prerequisite, Course 30 or 35; Course 31 or 36 concurrent. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Roberts, Mr. Crabtree

49, 50. Thesis Work.—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees. *One to three credit hours.* Mr. Barrows, Mr. Hill, Mr. Creamer

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

51. Alternating-Current Apparatus.—Continuation of Course 16. Theory, construction, and operating characteristics of alternating-current apparatus and machinery. Polyphase apparatus; generation, distribution, and utilization of polyphase power. Lectures, recitations, and problems. Prerequisite, Course 16. Classroom, *three hours a week;* computation, *four hours a week. Five credit hours.* Mr. Barrows

56. Electrical Power Plants.—Electrical equipment of power plants, methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. Prerequisites, Courses 15, 16, and 51. Classroom, *three hours a week. Three credit hours.* Mr. Barrows

58. Electrical Power Transmission.—Theory, design, and calculation of power-transmission systems. Problems of inductive interference, insulation, protection, stability, and control. Lectures, recitations, and problems. Prerequisites, Courses 16 and 51. Classroom, *two hours a week;* supervised computation, *three hours a week. Three credit hours.* Mr. Roberts

60. Advanced Electrical Machinery.—Analysis of windings and magnetic circuits of electric power apparatus. Advanced problems on flux distribution, commutation, heat paths, air flow, and mechanical stresses. Design of alternating-current machinery. Predetermination of performance characteristics. Lectures and problems. Prerequisite, Course 51. Classroom, *three hours a week. Three credit hours.* Mr. Hill

61. Illuminating Engineering.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. Classroom, *three hours a week. Three credit hours.* Mr. Barrows

63. Electrical Transportation.—Mechanics of vehicle movement; estimates of power and energy requirements of trains and other transporta-

tion units. Engineering and economic principles governing the selection and design of electrical equipment for railways, buses, elevators, and ships. Lectures, recitations, and problems. Prerequisite, Course 15, 16. Course 51 is concurrent. Classroom, *three hours a week. Three credit hours.* Mr. Hill

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. Prerequisites, Courses 15, 16, 17, and 18; Course 51 is concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* Mr. Hill, Mr. Roberts

81. Communication Engineering.—Network theory; equivalent circuits; filters; public-address systems; sound pictures; carrier-current systems. Lectures and problems. Prerequisite, Course 22. Computation, *six hours a week. Two credit hours.* Mr. Creamer

83. Communication Laboratory.—Advanced measurements on communication apparatus; repeaters; carrier-current systems; audio-frequency amplifiers; filters; transformers; public-address systems. Prerequisite, Course 22. Course 81 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Bliss

84. Telephone Transmission.—Application of hyperbolic functions to transmission line problems; transmission of speech over cable and open wire circuits; loaded lines; design of artificial lines. Lectures and problems. Prerequisite, Course 81. Computation, *six hours a week. Two credit hours.* Mr. Creamer

85, 86. Radio Engineering.—Detailed study of inductance coils, condensers, and resistors for radio frequencies; vacuum-tube theory; extended analysis of oscillatory circuits and methods of excitation; radiation and transmission phenomena; comparisons of methods of transmission and reception; theory of modulation; radio measurements. Lectures, recitations, and design problems. Prerequisite, Course 22. Fall semester: classroom, *one hour a week;* computation, *two hours a week. Two credit hours.* Spring semester: classroom, *three hours a week. Three credit hours.* Mr. Creamer

87. Engineering Acoustics.—This course, which is closely correlated with Courses 81, 85 and 86, deals with studio and theater acoustics, and the dynamical systems of microphones, receivers, and loud speakers. Lectures, recitations, and problems. Prerequisite, Course 22. Classroom, *two hours a week. Two credit hours.* Mr. Creamer

88. Radio Laboratory.—Use of wave-meters; radio-frequency amplifiers; tests of tube transmitters and receivers; continuous wave and radio-

phone transmission at various frequencies; radio directionals; field strength measurements. Course 86 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. CREAMER, MR. CRABTREE

91, 92. THEORY OF ELECTRICITY.—A study of the more advanced mathematical and physical theories of electricity with reference to their engineering applications. Wave propagation, radiation, gaseous conduction, and the analysis of transient phenomena by the methods of Heaviside's operational calculus. Problems, conferences, and seminar. Either or both semesters. *Two credit hours.* MR. CLOKE, MR. HILL

156. ADVANCED ELECTRICAL POWER PLANTS.—Study of the latest designs and methods of central station practice. Location, parallel operation, super-power practice, and economics. Lectures, studies, and problems. Prerequisites, Courses 51, 56, and 76. Classroom, *two hours a week. Two credit hours.* MR. BARROWS

157, 158. ADVANCED ELECTRICAL POWER TRANSMISSION.—A detailed study of the advanced theory of electric power circuits in the normal steady state and under transient and unbalanced conditions. Analysis of the performance of transmission systems, distribution networks, and connected apparatus. Engineering and economic problems of design, construction, and operation. Lectures, analytical studies, and problems. Prerequisite, Course 58. Classroom, *three hours a week. Three credit hours.* MR. HILL

165. ADVANCED THEORY OF ELECTRICAL MACHINERY.—Analytical study of electrical machinery with emphasis on methods useful in research and development. Analysis of behavior in transient states and under abnormal condition of operation. Lectures, problems, seminar papers, and reviews. Prerequisite, Course 60. Course 175 is concurrent. Classroom, *two hours a week. Two credit hours.* MR. HILL

175. ELECTRICAL LABORATORY.—Advanced tests of electrical machines and circuits as related to design and development. Performance studies involving the use of the oscillograph. Prerequisites, Courses 51, 60, and 76. Course 165 is concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. BARROWS

185. COMMUNICATION NETWORKS.—Advanced study of passive networks, including filters and attenuation equalizers; transformer and transition losses; high quality circuits used as an adjunct to radio broadcasting; advances in communication from study of current technical literature. Lectures, reports, and problems. For graduate students who have specialized in electrical communication. Classroom, *two hours a week. Two credit hours.* MR. CREAMER

188. Circuits Laboratory.—Experimental work based on theory treated in Course 185; oscillographic study of speech sounds and modulation; detection and elimination of speech distortion in amplifiers. Prerequisite, Course 185. Laboratory, *three hours a week. One and one-half credit hours.*
Mr. Creamer

ENGINEERING DRAFTING

Professor Kent; Assistant Professor Dunham; Mr. Sawyer; Miss Ebbeson

1. Fundamentals of Drafting.—Instruction and practice in technical sketching and lettering, in the care of drawing instruments, and their use in elementary problems involving right lines, circles, irregular curves, and orthographic projections. Drawing room, *four hours a week. Two credit hours.*
Mr. Kent, Mr. Dunham, Mr. Sawyer

2. Elementary Machine Drafting.—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. Drawing room, *four hours a week. Two credit hours.*
Mr. Kent, Mr. Dunham, Mr. Sawyer

2a. Drafting.—Continuation of orthographic projections, with isometric and perspective projections, topographical symbols and their application, map reproduction and enlarging, and blueprinting. Drafting room, *four hours a week, two credit hours.*
Mr. Sawyer, Mr. Dunham

3. Descriptive Geometry.—The elementary principles and problems of descriptive geometry, including intersections and developments. Recitation and drawing room, *six hours a week. Two credit hours.*
Mr. Kent, Mr. Dunham, Mr. Sawyer

4. Advanced Machine Drafting.—A continued study of the making of working drawings of simple machines, together with instruction and practice in blueprinting. Drawing room, *six hours a week. Two credit hours.*
Mr. Kent, Mr. Dunham, Mr. Sawyer

9, 10. Agricultural Drafting.—A course designed especially for students in Agriculture and for others who are not engineers. It combines the fundamental principles of Courses 1 and 2. Drawing room, *six hours a week. Two credit hours.*
Mr. Kent

11, 12. Theory of Architecture.—A study of the theory and principles underlying all architecture, special attention being given to the modern.

Laboratory exercises are carried on in conjunction with the lectures. A study of buildings through the types of plan used. Classroom, *one hour;* drafting room, *two hours. Two credit hours.* MISS EBBESON

14. ARCHITECTURAL DESIGN.—A study of architectural design and planning with the use of plastocene models and simply rendered drawings. Prerequisites, Courses 53a and 53b. Drafting room, *four hours. One credit hour.* MISS EBBESON

21, 22. ADVANCED ARCHITECTURAL DESIGN.—A continuation of Course 14. A study of architectural design and planning through simply rendered drawings. Prerequisite, Course 14. Drafting room, *four hours. Two credit hours.* MISS EBBESON

51. ADVANCED THEORY OF ARCHITECTURE.—A continuation of Course 11, 12. Concentration on special phases of building, especially on the materials. Classroom, *one hour;* drafting room, *two hours. Two credit hours.* MISS EBBESON

53a. SHADES AND SHADOWS.—A study of the principles of the casting of shadows on and by architectural objects. A half-semester course. Drafting room, *four hours. One credit hour.* MISS EBBESON

53b. PERSPECTIVE.—A study of the principles of architectural perspective and the making of the same. A half-semester course. Drafting room, *four hours. One credit hour.* MISS EBBESON

LECTURE COURSES

Gc 5. ORIENTATION.—A course of lectures by members of the staff of the College and other faculty members for Technology freshmen. Designed to better acquaint them with the different fields of study and the opportunities in these fields. Given Wednesday afternoons at 4:15 throughout the first semester. *One-half credit hour.* MR. YOUNG, MR. WATSON, MR. CLOKE

Gc 6. ORIENTATION.—A general lecture course given Wednesday afternoons at 4:15 throughout the second semester, consisting of addresses by engineers and business and professional men for Technology freshmen. Open to the public. *One-half credit hour.* MR. YOUNG, MR. WATSON, MR. CLOKE

MECHANICAL ENGINEERING

PROFESSOR SWEETSER; ASSOCIATE PROFESSOR WATSON; ASSISTANT PROFESSOR PRAGEMAN; MR. DAVEE; MR. PERKINS; MR. SPARROW; MR. TYRRELL

1. FOUNDRY AND FORGE WORK.—Foundry instruction is given in bench and floor molding, mixing of materials, core making, operation of cupolas, etc. Forge instruction is given in drawing, upsetting, forming, welding, and tool dressing. Shop work, *six hours a week. Two credit hours.* MR. DAVEE

2. PATTERN WORK.—Bench work and wood turning to familiarize the student with the tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of making complete patterns and core boxes from drawings. Shop work, *six hours a week. Two credit hours.* MR. DAVEE

7, 8. MACHINE WORK.—A small piece of machiery is manufactured which involves a study of the principles and operation of the various machine tools, at the same time including an insight into that phase of manufacturing which requires one part to fit another properly and the entire machine to be readily assembled. Shop work, *six hours a week. Two credit hours.* MR. PERKINS

9, 10. MACHINE WORK.—A shorter course than 7, 8, for electrical engineers. Shop work, *four hours a week. One and one-half credit hours.* MR. PERKINS

21. ELEMENTS OF MECHANICAL ENGINEERING.—A course designed to familiarize the student with the mechanical apparatus of manufacturing and power plants, and elementary mechanical engineering calculations. Classroom, *two hours a week. Two credit hours.* MR. SPARROW, MR. TYRELL

27. KINEMATICS.—A shorter course than 55, arranged for electrical engineers. Recitation, *three hours a week. Three credit hours.* MR. TYRRELL

28. KINEMATICS.—A shorter course than 27, given to chemical engineers. Recitation, *two hours a week. Two credit hours.* MR. TYRRELL

32. MATERIALS OF ENGINEERING.—Properties of the metals; production from ores; heat treatment; methods of testing. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

38. MECHANICAL LABORATORY.—Elementary experimental work such as calibration of instruments, use of steam and gas engine indicators, mechanical efficiency tests, etc. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW, MR. TYRRELL

39. Mechanical Laboratory.—A course arranged for seniors in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs, through orifices and nozzles; calibration of venturi meters. Prerequisite, Civil Engineering 26 or 35. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Sparrow

40. Mechanical Laboratory.—A course arranged for seniors in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Prerequisite, Course 43. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Sparrow

41. Mechanical Laboratory.—A course arranged for seniors in Electrical Engineering. Calibration of instruments; testing strength of materials; testing of steam engines, gas engines, hydraulic testing. Prerequisite, Course 44. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Sparrow

43. Heat Engineering.—A short course for senior chemical engineers covering the laws of thermodynamics and their application to heat motors, air compressors, refrigerating machinery, and power plant equipment. Recitation, *three hours a week. Three credit hours.* Mr. Sparrow

44. Heat Engineering.—A course similar to Course 79, given to electrical engineers. Prerequisites, Mathematics 8 and Physics 2. Recitation, *three hours a week. Three credit hours.* Mr. Sparrow

45. Heat Engineering.—Simple and compound steam engines; steam turbines; gas engines; gas producers; fuels and combustion; steam and gas power plant equipment and operation. For seniors in Electrical Engineering. Prerequisite, Course 44. Recitation, *three hours a week. Three credit hours.* Mr. Sparrow

50. 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. *Three credit hours.* Mr. Sweetser and Staff

55. Kinematics.—A study of motion, velocity, and acceleration of machine parts, supplemented by drawings of cams, gear teeth, and graphical studies of kinematical problems. Classroom, *three hours a week;* drawing room, *three hours a week. Four credit hours.* Mr. Prageman, Mr. Tyrell

66. Machine Design.—A study of the design of machines; proportioning of parts for strength, rigidity, etc. Prerequisites, Course 55 and Mechanics 51. Classroom, *two hours a week.* Drawing room, *three hours a week. Three credit hours.* Mr. Prageman, Mr. Tyrrell

69, 70. Mechanical Laboratory.—Tests of materials, heating value of liquid and gaseous fuels, steam calorimetry, thermal efficiency, economy, and heat balance tests of steam engines, steam turbines, and gas engines. Prerequisite, Course 38. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Watson, Mr. Sparrow

71, 72. Mechanical Laboratory.—Tests of condensers, boilers, air compressors, pumps, fans, hydraulic testing. Prerequisite, Course 70. Laboratory, *three hours a week. One and one-half credit hours.*
Mr. Watson, Mr. Sparrow

78. Hydraulic Laboratory.—A course arranged for students taking Hydraulic option in Civil Engineering. Testing of impulse and reaction water wheels, flow measurement and friction in pipes and channels, etc. Prerequisite, Course 39. Laboratory, *three hours a week. One and one-half credit hours.* Mr. Sparrow

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; illustrative practical problems. Prerequisites, Mathematics 8 and Physics 1, 2, and 21 or 22. Recitation, *three hours a week. Three credit hours.* Mr. Watson

80. Heat Engineering.—Simple and compound steam engines, flow of steam, air compressors; flow of air; refrigeration. Prerequisite, Course 79. Recitation, *three hours a week. Three credit hours.* Mr. Watson

81. Heat Engineering.—A continuation of Courses 79 and 80, dealing with steam turbines; considerations affecting the design and efficiency of operation of the various types. Recitation, *two hours a week;* drawing room, *three hours a week. Three credit hours.* Mr. Sweetser

82. Heat Power.—Fuels and combustion, steam and gas power-plant equipment; arrangement, operation, and efficiencies of various types of apparatus. Prerequisite, Course 79. *Three hours a week. Three credit hours.*
Mr. Watson, Mr. Sparrow

83. Industrial Management.—Lectures and recitations on the various types of organization for industrial enterprises and systems of management. It deals with types of ownership, control, selection of plant site, and the elements of machine production, time and motion study, wage systems, and selection of personnel. Prerequisites, Course 66 and Economics 2a and 10. Course 87 accompanying. Classroom, *four hours a week. Four credit hours.* Mr Tyrrell

84a. Industrial Engineering.—A study of time keeping and cost-finding systems, methods of planning work, time and motion study, plant

location and arrangement, heating, lighting and powering, safety engineering and fire protection. Prerequisite, Course 83. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

84b. INDUSTRIAL ENGINEERING PROBLEMS.—Design and layout of a plant including selection and location of machinery for the manufacture of some small machine or an assembly of part of a machine. A solution of the cost problems, planning, routing, and scheduling, and the development of organization charts. A detailed study of distribution of overhead expense, and practice in making and using time studies and rate tables. Course 84a accompanying. Drawing room, *four and one-half hours a week. One and one-half credit hours.* MR. TYRRELL

85. INDUSTRIAL RELATIONS.—A study of employer and employee relations, the effect of organized labor, employment methods, methods of wage payments, industrial education, and personnel service. Classroom, *two hours a week. Two credit hours.* MR. TYRRELL

86. POWER PLANTS.—Design, costs, operating expenses, and economics of steam and gas power plants. Prerequisite, Course 81. Classroom, *three hours a week. Three credit hours.* MR. SWEETSER

87. MACHINE DESIGN.—A continuation of Course 66, including the execution of the design of some typical machines. Prerequisites, Courses 55 and 66. Drawing room, *six hours a week. Two credit hours.*
MR. PRAGEMAN, MR. TYRRELL

88. DYNAMICS OF MACHINES.—A study of the forces due to reciprocating and rotating masses with special application to balancing high-speed machinery, designing governors and flywheels. Prerequisites, Courses 55 and 66. Recitation, *two hours a week;* drawing room, *three hours a week. Three credit hours.* MR. PRAGEMAN

90. ENGINEERING COST ACCOUNTING.—A detailed study of manufacturing cost systems, the use of standard costs in price estimating, the relation of economic considerations to pricing policies. Prerequisites, Course 83 and Economics 9 and 10. Classroom, *two hours a week;* drawing room, *three hours a week. Three credit hours.* MR. TYRRELL

91. HEATING AND VENTILATION.—Heat resistance of building materials, calculation of heat losses through various types of walls, windows, etc., heating systems, ventilating systems, humidification. Prerequisite, Course 80. Recitation, *two hours a week. Two credit hours.* MR. PRAGEMAN

93. GAS ENGINES.—Types, operation, fuels and combustion, carburetion, ignition, valves, cooling, governing, determination of cylinder sizes for given fuel and horsepower. Prerequisites, Courses 66 and 79. Classroom, *three hours a week. Three credit hours.* MR. SWEETSER, MR. WATSON

94. Hydraulic Machinery.—Hydraulic turbines; water wheels, various features of hydraulic power plant development. Prerequisites, Mechanics 52, Civil Engineering 26 or 35, and Mechanical Engineering 55. Recitation, *three hours a week. Three credit hours.* Mr. Prageman

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. Recitation, *two hours a week. Two credit hours.* Mr. Prageman, Mr. Tyrrell

101 or 102. Metallography.—Polishing, etching, and a microscopic study of the crystalline structure of metals. A study of the effect of heat treatment on the crystalline structure and physical properties of steel. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* Mr. Sweetser

103, 104. Advanced Fluid Flow.—A more theoretical study of flow of gases, vapors, and fluids than in undergraduate courses. Application to fans, blowers, compressors, steam turbines, refrigeration machinery, pumps, piping, and lubrication problems. Laws of similitude, effects of viscosity, applications of dimensional analysis. Classroom, *three hours a week. Three credit hours.* Mr. Sweetser, Mr. Watson

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. A complete schedule of the trip is prearranged and a member of the department staff is in charge of the party.

MECHANICS

Professor Weston

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. Recitation, *five hours a week. Five credit hours.*

53, 54. Mechanics.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; the study of simple stresses and strains with such applications as the time permits. Recitation, *three hours a week. Three credit hours.*

101, 102. 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, hydromechanics, etc. Recitation, *two hours a week. Two credit hours.*

PULP AND PAPER TECHNOLOGY

Professor Bray; Assistant Professor Caulfield

49, 50. 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 investigations. Hours arranged. *One to three credit hours.*

Mr. Bray, Mr. Caulfield

65. Pulp Technology.—A lecture course on the manufacture of the various kinds of wood pulps, and the chemical engineering involved in present-day pulp making. Prerequisites, Chemistry 1, 2, 31, and 40. Classroom, *two hours a week. Two credit hours.* Mr. Bray

66. Paper Technology.—A lecture course on the processes of manufacturing paper. Prerequisite, Course 65. Classroom, *two hours a week. Two credit hours.* Mr. Bray

67. Pulp Manufacture.—Laboratory work. Unit-process work on semi-commercial scale production of various kinds of wood pulps, analysis of pulp-making raw materials, etc. Course 65 should be taken in conjunction. Prerequisites, Chemistry 1, 2, 31, and 40. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.*

Mr. Bray, Mr. Caulfield

68. Paper Manufacture.—A laboratory course, unit process work, in which papers of various kinds are made on semi-commercial equipment including Jordan and cylinder paper machines. Course 66 should be taken in conjunction. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.* Mr. Bray, Mr. Caulfield

82. Paper Coloring.—A laboratory course involving an examination and application of the various classes of dyestuffs. Prerequisite, Course 85. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.* Mr. Bray, Mr. Caulfield

85. Cellulose.—A laboratory course dealing with the characteristics and derivatives of various kinds of pulps (cellulose). Prerequisites, Chemistry 1, 2, 31, 40 and Pulp and Paper 65. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.* Mr. Caulfield

86. Bleaching of Pulp.—A laboratory course dealing with the methods of bleaching various kinds of pulp including use of bleaching powder, chlorine, electrolytic bleach production, and efficiency testing. Prerequisite, Course 65. Laboratory, *eight hours a week for last nine weeks.* One breakage card required. *Two credit hours.* Mr. Bray, Mr. Caulfield

87. Paper Testing and Analysis.—A laboratory course involving physical, microscopical, and chemical testing of various kinds of papers. Prerequisites, Chemistry 31 and 40 and Pulp and Paper 65 and 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.*
Mr. Bray, Mr. Caulfield

105, 106. Investigations in Pulp and Paper Technology.
Mr. Bray, Mr. Caulfield

Equipment obtained and receipted for by a student and not returnable at the end of a course, 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. Breakage cards may be obtained only at the Treasurer's office and all students taking laboratory courses are required to have one. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the chemistry storeroom.

For Pulp and Paper Technology courses in the Summer Session, see the Summer Session Bulletin.

General Courses

Not sponsored by a single College or School.

TUTORIAL HONORS

The purpose of the Tutorial Honors course is to afford the superior student an opportunity to pursue, under exceptionally favorable conditions, some subject which is deemed important in the equipment of the symmetrically educated person, but for which he has not yet found a place in his course of study. It is not intended to provide instruction in a student's major subject, but to enable him to gratify his intellectual curiosity in some new field. Only juniors or seniors who have attained the standard of the Dean's List may be admitted, although inclusion in that list is not necessarily prerequisite, nor will it serve automatically to admit the student to the course. The course is designed solely for the benefit of the student of ability, ideas, and self-reliance who can profit by the free manner of tutorial instruction and close contact with an adviser specially qualified to direct his study.

49, 50. Tutorial Honors.—The work is conducted by personal conferences and directed reading. The tutor is selected with the approval of the Committee on Tutorial Courses. Application for admission to the course should be made to Dean Chase. *Two credit hours.*

MILITARY SCIENCE AND TACTICS

Lieut. Colonel Alcott; Major Phinney; Major Huskea; Captain Loupret; Sergeant Bays; Sergeant Rinkaus

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 and a Coast Artillery Unit of the Reserve Officers' Training Corps the purpose of which is to train officers for infantry and coast artillery. The students are organized into infantry and coast artillery companies, in-

cluding 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, white shirts, and collars), 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 directly 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 officers of the U. S. Army, except that "R.O.T.C." insignia are used; for other than commissioned officers, the olive-drab service uniform prescribed for the R.O.T.C. Basic Course.

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 Two-Year Course in Agriculture. Course 5, 6 is elective for juniors and Course 7, 8 is 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.

Three per cent of the total number of students who on March 1 of each year are enrolled in the second year of the Advanced Course (Mt 7, 8), may be designated by the institution as honor graduates. The term "honor graduate" is understood to apply to a graduate whose attainments in scholarship have been so marked as to receive the approbation of the head of the University, and whose proficiency in military training and intelligent attention to duty have won the commendation of the professor of military science and tactics.

The general object of the courses of instruction of the Reserve Officers' Training Corps is to qualify students for positions of leadership in time of a national emergency.

Basic Course, Infantry

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—National Defense Act and mission of R.O.T.C.; obligations of citizenship; military history and policy; current international situation; military discipline, courtesy and customs of service; military sanitation and first aid; military organization with special reference to rifle, machine gun, howitzer, supply and headquarters companies; leadership, including close and extended order drills, ceremonies, practice of fundamentals of leadership.

Second Semester—Map reading; the rifle and rifle marksmanship; leadership, covering same subjects as in first semester.

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Automatic rifle; musketry; characteristics of infantry weapons and those of the supporting arms; leadership (review and continuation of first year's training, stressing fundamentals of leadership).

Second Semester—Scouting and patrolling, functions of platoon scouts; combat principles of squad and section in attack defense and security; military history (lecture course selected battles); leadership (continuation of first semester's work).

Advanced Course, Infantry

Junior Year, Course 5, 6. *Five hours a week, four credit hours a semester*

First Semester—Aerial photograph reading; machine guns; howitzer company weapons; leadership (principles of and instructional methods, with a thorough theoretical and practical review of basic training on this subject with a view to qualifying advanced students as instructors of basic students in close and extended order drill and ceremonies).

Second Semester—Review of rifle marksmanship; pistol (instruction in the care, mechanism, and use of); combat training (estimate of situation and combat orders; marches, security, development for combat, offensive and defensive combat; organization of the ground; combat principles of the rifle platoon, machine gun platoon and howitzer company squad; field fortifications), leadership (continuation of first semester's work).

Senior Year, Course 7, 8. *Five hours a week, four credit hours a semester*

First Semester—Tanks and mechanization; review of offensive and defensive combat, organization of the ground, combat orders, solutions of problems; combat principles of the rifle company, machine gun company and howitzer company platoon in attack, defense, and security; defense against chemical warfare; combat intelligence; infantry signal communications; leadership (principles of and instructional methods, being a review of first year advanced training from the viewpoint of the leader and instructor).

Second Semester—Anti-aircraft defense; military history and policy (the effects of national policy, foreign and domestic, on national preparedness for war and the conditions resulting therefrom as exemplified by U. S. history); military law (theoretical and practical instruction in military law and the procedure of Courts-Martial); company administration (instruction in preparation of reports, returns, military correspondence, mess management, organization funds, supply, mobilization of small unit); regulations of officers' reserve corps; leadership (continuation of work of first semester).

Basic Course, Coast Artillery

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—Organization of the Army; organization of the Coast Artillery Corps; military discipline, courtesies and customs of the service; military sanitation and first aid; military history and policy; national defense act and R.O.T.C.; military obligations of citizenship; current international situation; leadership, theory of close order drill to include the platoon; the practice of close order drill to include the company and ceremonies.

Second Semester—Leadership (continuation of the theory and practice of close order drill to include the company and ceremonies); primary coast artillery instruction (rifle marksmanship; coast artillery ammunition; weapons and material).

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Leadership (review and continuation of first year's training, adding thereto training in the fundamentals of leadership). Coast artillery instruction (fire control and position finding for anti-aircraft artillery; identification of aircraft).

Second Semester—Leadership (review and continuation of first semester work in leadership); coast artillery instruction (fire control and position finding for seacoast artillery, characteristics of naval targets).

Advanced Course, Coast Artillery

Junior Year, Course 5, 6. *Five hours a week, four credit hours a semester*

First Semester—Leadership (theoretical and practical review of the basic training in this subject, primarily from the viewpoint of an instructor and leader). Map and aerial photograph reading; combat orders and the solution of problems.

Second Semester—Coast artillery instruction (basic gunnery, fire control, and position finding for anti-aircraft artillery, fire control and position finding for seacoast artillery); leadership (continuation of work of first semester in this subject).

Senior Year, Course 7, 8. *Five hours a week, four credit hours a semester*

First Semester—Military law and administration (the law of military offenses, Courts-Martial, administration); military history and policy; leadership (review of previous drill and command course and additional practical instruction to qualify the student to perform the duties of platoon and battery commanders and instructors of basic students in close order drill and ceremonies); coast artillery instruction (materiel).

Second Semester—Leadership (continuation of work of first semester in this subject); motor transportation; artillery tactics; orientation; field engineering.

PHYSICAL EDUCATION AND ATHLETICS

Men's Division

PROFESSOR WALLACE; PROFESSOR CURTIS; PROFESSOR BRICE; PROFESSOR JENKINS; MR. KENYON

Athletics for men are under the supervision of the Athletic Board, composed of members of the faculty, alumni, trustees, and students. The management of athletics is in the hands of a faculty manager, who carries out the policies of the Athletic Board.

The schedules of all sports are arranged with the interest of both the University and the individual members of teams in mind. Letters and numerals are awarded by the Athletic Board to those men who earn them in competition in various sports. Admission to all athletic contests is included in the blanket tax which is paid by each student at the time of registration.

Student managers are appointed in each sport and their work is carried on under the direction of the Faculty Manager. They are awarded a letter in their sport at the satisfactory completion of their duties.

Teams are maintained in varsity, junior varsity and freshman football, varsity and freshman cross country, varsity relay, varsity and freshman track, varsity and freshman baseball, varsity winter sports, varsity tennis, and varsity and freshman basketball.

The organization of the Physical Education 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. Especial emphasis will be placed upon out-of-door recreational exercises during the fall and spring, while the gymnasium will be used to its full extent during the winter months.

The Intramural Athletic Association is a part of the Physical Education Department, and was organized for the purpose of fostering athletics for men who are not participating in varsity sports at the time and for all others at any time.

Competition is carried on by twenty-three teams in ten different sports and it is hoped that it will be possible to increase this number in the near future.

It is the plan of the Department to furnish opportunity for everyone to participate in his favorite physical education activity.

1, 2. Physical Education.—Required of all freshmen. Outdoor supervised mass games; competitive athletics including football, boxing, wrestling, fencing, corrective exercises, elementary apparatus work, intramural sports, and indoor games. *Two hours a week, no credit.*

3, 4. Physical Education.—Required of all sophomores. Outdoor mass games and athletics including football, tag football, tennis, volley ball, playground ball, speedball, and winter sports. Indoor games include basketball, wrestling, boxing, fencing; corrective work and apparatus work will also be taught in the gym. Credit is given for participation in intramural sports. *Two hours a week, no credit.*

Teachers' Courses in Physical Education for Men

The following courses are for students who wish to teach physical education and who have completed Courses 1, 2 and 3, 4. The complete program is classed as a minor subject.

5. Physical Education.—The technique of teaching gymnastics. An outline of General Physical Education taking up specifically the meaning and results to be expected in modern physical education, first aid and massage, and the principles of training athletes and caring for athletic injuries. Practice teaching of games and mass athletics, supplemented by outside reading on physical education and hygiene. Methods of teaching football and basketball. *Five hours a week, two credit hours.*

6. Physical Education.—The study of games and play activity, covering plays and games from a physical education standpoint. Apparatus work, formal and school-room gymnastics, methods of promoting grammar and high-school programs in physical education and health. Methods of teaching track and baseball. *Five hours a week, two credit hours.*

7. Physical Education.—Health problems of school and community with emphasis on rural schools. A continuation of the technique of teaching mass games, corrective work, formal and informal gymnastics. Training and conditioning of athletes. Practice teaching. Methods of teaching football and basketball. *Five hours a week, two credit hours.*

8. Physical Education.—The administration of Physical Education programs in elementary and secondary schools. Graded apparatus work, training of leaders, corrective work individually and in classes. Practice teaching. Methods of teaching track and baseball. *Five hours a week, two credit hours.*

Women's Division

Associate Professor Lengyel; Miss Rogers; Miss Reynolds

It is the purpose of this department to develop good physical condition among college women by providing opportunity for the formation of wholesome habits and for relaxation and recreation.

A medical examination by the University physicians and a physical examination by the director of physical education are given each entering student during the first week of school, and thereafter as often as seems advisable. These are intended: to assist in the placement of the student with

reference to her college program in the light of her physical ability and limitations; to inform the student as to her exact physical condition, so that she can intelligently conduct her mental and physical activity; and to discover as soon as possible any organic and physical defects in order to hasten their treatment.

Instructors in all activities are placing particular emphasis on two important aspects: the physical needs of the individual and the fun of the game. To stimulate a wholesome competitive interest on the part of the student, the Maine Athletic Association Women's Branch conducts a series of interclass activities in hockey, basketball, archery, tennis, baseball, track, and other sports.

Regulation gymnasium uniforms, described elsewhere in the catalog, are required for this work.

1, 2. Elementary Physical Education.—Required of all freshmen. Consists of postural and developmental gymnastics and physical efficiency tests of endurance, strength, and agility. Hockey, tennis, basketball, baseball, archery, and track may be substituted for this in season. *Two hours a week, no credit.*

1a, 2a. Modern Dance, Elementary.—May be substituted for Course 1, 2. Elements of the modern dance as introduced by Mary Wigman and Martha Graham. Appreciation of the dance is taught. Emphasis is placed upon mood, body control, and the development of imaginative powers. *Two hours a week, no credit.*

3, 4. Advanced Physical Education.—Required of all sophomores. A continuation of Course 1, 2, with advanced gymnastics and apparatus work, and more difficult physical efficiency tests. The sports listed above may be substituted for this in season, for the purpose of developing greater skill and accuracy, as well as providing recreation. *Two hours a week, no credit.*

3a, 4a. Modern Dance, Advanced.—Continuation of Course 1a, 2a with more advanced technique, dance form, and competition. May be substituted for Course 3, 4. *Two hours a week, no credit.*

5, 6. Tap Dancing.—Can be taken for Physical Education credit for one year only, either freshman or sophomore year.

Individual Gymnastics.—Required of all freshmen and sophomores referred to the department by the medical examiner or by their family physician for special work. Prescribed exercises for body building, posture, foot work, etc. Students who are required to take this work substitute it for Courses 1, 2 and 3, 4. *Two hours a week, no credit.*

Teachers' Certificate Courses in Physical Education for Women

The following courses are for students who wish to minor in Physical Education and thus obtain a Secondary State Teachers' Certificate, from the State Department of Education.

Prerequisites: Physical Education 1, 2, 3, 4 without credit; General Zoology, *four credit hours;* Elementary Physiology and Hygiene, *two credit hours;* Human Physiology, *four credit hours.*

7. The Principles of Physical Education and Hygiene.—An introductory course in the interpretation and objectives of physical education. Open to juniors who are preparing to teach. *Three hours a week and field work, two credit hours.*

8. Physical Examination and Measurements.—This course covers the purposes, management, and technique of physical examination and first aid with the exception of the determination of organic capacity for activities. Open to juniors who have fulfilled the requirements of Zoology 1, 5, 12. *Three hours a week and field work, two credit hours.*

9. Methods for Teaching Physical Education.—This course deals with the methods of teaching physical education activities through the grades and high school. It also gives opportunity for practice teaching. Open to seniors who have passed Courses 7 and 8. *Three hours a week and field work, two credit hours.*

10. First Aid.—Given biennially in the spring semester. This course includes the fundamentals prescribed by the American Red Cross in their First Aid Outline. Upon its completion the American Red Cross First Aid Certificate will be awarded. *Two credit hours.*

14. Girls' Basketball and High-School Athletics.—It takes up girls' athletics from the standpoint of girls' need of physical education. Specializes in athletics. Instruction in organized team games such as basketball, hockey, tennis, archery; recreational activities such as volley ball, badminton, deck tennis. Plan and diagram of plays, skeleton practice system and methods of training. *Three hours a week and field work, two credit hours.*

It is recommended that students enrolling in the above courses should have at least six hours of each of the following departments: Education, Psychology, Sociology, and Public Speaking.

Graduate Study

FACULTY OF GRADUATE STUDY

George Davis Chase, Ph.D., LL.D., *Dean of Graduate Study and Professor of Classics*
James Norris Hart, Sc.D., Ph.D., *Dean of the University and Professor of Mathematics*
Edith Marion Patch, Ph.D., *Entomologist, Experiment Station*
Lamert Seymour Corbett, M.S., *Professor of Animal Industry*
William Jordan Sweetser, S.B., *Professor of Mechanical Engineering*
Roy Merle Peterson, Ph.D., *Secretary of the Faculty and Professor of Romance Languages*
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 and Chemical Engineering*
Milton Ellis, Ph.D., *Professor of English*
Embert Hiram Sprague, B.S., *Professor of Sanitary Engineering*
Albert Lewis Fitch, Ph.D., *Professor of Physics*
Donald Folsom, Ph.D., *Plant Pathologist, Experiment Station*
Charles Henry Merchant, Ph.D., *Professor of Agricultural Economics and Farm Management*
James Howard Waring, Ph.D., *Professor of Horticulture*
Paul Cloke, E.E., Eng.D., *Dean of the College of Technology*
Olin Silas Lutes, Ph.D., *Dean of the School of Education and Professor of Education*
Charles Alexius Dickinson, Ph.D., *Professor of Psychology*
Pearl Stuart Greene, A.M., *Professor of Home Economics*
Ferdinand Henry Steinmetz, Ph.D., *Professor of Botany and Entomology*
William Edward Barrows, E.E., *Professor of Electrical Engineering*
Arthur St. John Hill, E.E., M.S.E., *Professor of Electrical Engineering*
Fred Griffee, Ph.D., *Biologist and Director of the Experiment Station*
Ronald Bartlett Levinson, Ph.D., *Professor of Philosophy*
Elmer Reeve Hitchner, Ph.D., *Professor of Bacteriology*
Marion Deyoe Sweetman, Ph.D., *Professor of Home Economics*

MAURICE DANIEL JONES, M.S., *Professor of Agricultural Economics and Farm Management*
JAMES MUILENBURG, Ph.D., *Dean of the College of Arts and Sciences*
PAUL DECOSTA BRAY, Ch.E., *Professor of Pulp and Paper Technology*
ARTHUR LOWELL DEERING, B.S., Sc.D., *Dean of the College of Agriculture*
WESTON SUMNER EVANS, M.S., *Professor of Civil Engineering*
JOSEPH MAGEE MURRAY, Ph.D., *Professor of Zoology*
JOHN ANTHONY CHUCKA, Ph.D., *Professor of Agronomy and Agricultural Engineering*
DWIGHT BURGESS DEMERITT, M.F., *Professor of Forestry*
LLEWELLYN MORSE DORSEY, M.S., *Professor of Dairy Husbandry*
HARRY WOODBURY SMITH, Ph.D., *Professor of Biological and Agricultural Chemistry*
AVA HARRIET CHADBOURNE, Ph.D., *Associate Professor of Education*
CHARLES BURTON CROFUTT, Ph.D., *Associate Professor of Physics*
WILLIAM FRANKLIN DOVE, Ph.D., *Associate Biologist, Experiment Station*
GEORGE WILLIAM SMALL, Ph.D., *Associate Professor of English*
GEORGE BAER FUNDENBURG, Ph.D., *Associate Professor of Romance Languages*
ALBERT MORTON TURNER, Ph.D., *Associate Professor of English and Comparative Literature*
EDWARD FRENCH DOW, Ph.D., *Associate Professor of History and Government*
JOHN RAYMOND CRAWFORD, Ph.D., *Assistant Professor of Education*
ALFRED CARLETON ANDREWS, Ph.D., *Assistant Professor of Classics*
MONROE EDWARD FREEMAN, Ph.D., *Assistant Professor of Biological and Agricultural Chemistry*

ADMINISTRATION

Graduate work is administered by the Faculty and Dean of Graduate Study. The details of administration are in the hands of an executive committee consisting of the Dean, one member from the Experiment Station, two from each of the three colleges—Agriculture, Arts and Sciences, and Technology,—and two from the School of Education.

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 study, whether they are candidates for a degree or not.

REGISTRATION

At the beginning of each semester all graduate students, whether candidates for a degree or not, are required to register with the head of the department in which they propose to do their major work, obtain the approval of the Dean, and complete their registration by filing their program of study at the Registrar's office. A fee of two dollars is charged for registration after two weeks have elapsed.

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.

FELLOWSHIPS AND SCHOLARSHIPS

Applications for graduate fellowships and scholarships should be made to the Dean of Graduate Study by May 1, except that for the Trustee Scholarship in Technology they should be made not later than April 1.

Trustee Fellowships.—The Trustees of the University established in 1931 three graduate fellowships of the value of $500.00 each, to be assigned annually on a competitive basis by a committee of the Faculty of Graduate Study.

Trustee Graduate Scholalrships.—Eight scholarships, of the value of a year's tuition, have been established by the Board of Trustees, two each for graduates of the three colleges in the University and the School of Education. Holders of these scholarships may be called upon to render a reasonable amount of assistance in their major department.

Maritime Provinces Graduate Scholarships.—By action of the Trustees of the University, a graduate scholarship is available annually in each of the four academic divisions of the University, on a competitive basis, for graduates of the colleges and universities in the Provinces of New Brunswick, Nova Scotia, and Prince Edward's Island. These scholarships have

a value of $250.00, equivalent to a full year's tuition for a student residing without the State. The first award was made in 1934, to a graduate of Acadia University.

THE COE RESEARCH FUND

The Trustees of the University have set aside the sum of $100,000 to form a permanent fund, the proceeds of which are to be used for carrying on various kinds of research work within the University. Applications for grants from this fund should be addressed to Professor E. R. Hitchner, Secretary. It is hoped that this fund may later be increased by grants from other sources.

DEGREES

The degrees of Master of Arts, Master of Science, Master of Arts in Education, and Master of Science in Education are granted to candidates who hold corresponding bachelor's degrees and fulfill the requirements of residence and scholarship.

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. If he is a graduate of the University of Maine he must present his record from the Registrar's office.

REQUIREMENTS FOR THE MASTER'S DEGREE

A candidate for the master's degree is required to devote at least one year to resident graduate 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 year of residence.

At least one year must elapse between the conferring of the bachelor's and the master's degree. No work done before the recommending for the bachelor's degree shall be counted toward the master's degree. All requirements for the degree must be completed within an eight-year period.

As soon after registration as practicable, the student, in conference with his major instructor, will plan his entire course of study for the master's

degree. The major instructor will present the proposed curriculum for approval to a committee, which consists of the Dean of Graduate Study and the representatives of the candidate's college on the Executive Committee of the faculty.

The curriculum shall include work in a major department or subject in which the candidate has already completed the equivalent of at least two years of undergraduate study. The work may all be done in one department, or it may include not more than two minor subjects which bear a distinct relation to the general plan or purpose of the major subject. 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 graduate work are numbered above 100 in the catalog, but courses numbered 51 to 100 inclusive may be counted upon approval. Courses numbered 50 or under may not be accepted for graduate credit.

Each candidate for a degree is furnished with a registration 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.

The candidate shall prepare, as a part of his curriculum, a satisfactory thesis on some topic connected with his major subject. It is ordinarily expected that the thesis shall be a limited piece of original research, with the design of making a minor contribution to scholarship in the student's particular field. A student of proved maturity, intelligence, accuracy, and industry, however, whose objectives and interests are not best furthered by this type of research, may be authorized to submit a thesis of different type. This may consist of a digest and analysis of the literature on a topic or problem of major importance in the student's field; the analysis of a set of accepted statistics in that field; a comprehensive outline and critique of current practices; or a report of a project undertaken and carried on under competent direction. The subject 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 Study before the final examination. It must have been previously approved by a committee composed of his major instructor, the head of the major department, and the members of the Executive Committee from the candidate's college.

At the end of the course of study for the master's degree, after his thesis has been approved, the candidate will be required to pass an oral examination

covering his work, including the thesis. 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; they will ordinarily be held in the month of May, but, at the discretion of the Executive Committee, may be held at other times. About May 15, the Dean will notify the heads of all departments of the University of the dates set for the public oral examinations of the candidates of the year. Examinations are open to all voting members of the faculty. While, as a matter of course, the examination will be conducted chiefly by the members of the departments in which the work has been done, any member of the faculty present at the examination has the privilege of questioning the candidate.

Graduates are required to receive their degree in person at Commencement unless especially excused by the President.

Further information about the administration of graduate work and detailed requirements for the form and arrangement of theses may be found in a pamphlet entitled "Degrees and Theses."

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 curriculum of Chemistry, Chemical Engineering, or Pulp and Paper Technology, Civil Engineering, Electrical Engineering, and Mechanical Engineering respectively, upon the completion of the requirements stated below. Graduates receiving the degree of Bachelor of Science in General Engineering, upon the completion of these requirements, will be granted the professional degree of Chemical Engineer, Civil Engineer, Electrical Engineer, or Mechanical Engineer, depending upon the field of work of the candidate and the judgment of the dean and the heads of departments in the College of Technology.

The presentation of a satisfactory thesis, which shall constitute an original contribution to the advance of engineering, is required of all candidates. The candidate must hold a position of responsibility and must have accomplished professional work of eminence for a period of at least five years subsequent to graduation. A full and complete statement covering the professional experience of the candidate must be presented at the time of registration. Candidates are expected to be present in person to receive their degrees.

UNIVERSITY OF MAINE STUDIES

The *University of Maine Studies,* Second Series, are issued under the direction of the Faculty of Graduate Study, for the purpose of publishing notable pieces of research work produced by graduate students and members of the faculty.

Copies of the *Studies* and lists of subjects may be obtained from the University Library.

Maine Agricultural Experiment Station

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Merna Myrtha Monroe, M.S., Assistant

PLANT PATHOLOGY

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Reiner Bonde, M.S., Associate
Florence Lydia Markin, M.S., Assistant
Gladys Elizabeth Babbin, Assistant in Seed Analysis and 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 Director of the Extension Service, the Commissioner of Agriculture, and one member each from the State Pomological Society, the State Grange, the State Dairymen's Association, the Maine Live Stock Breeders' Association, the Maine Seed Improvement Association, and the Maine Poultry 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.

OBJECT

The purpose of the agricultural experiment stations is defined in Acts of Congress establishing them and providing further funds for their support as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments—bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and

Territories," and "including such scientific researches as have for their purpose the establishment and maintenance of a permanent and efficient agricultural industry, and such economic and sociological investigations as have for their purpose the development and improvement of the rural home and rural life."

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. Through appropriations to the University the State provides for the cost of printing Station publications.

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described in the section on University buildings. 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 nearly 7000 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 original farm contains 225 acres, about 200 of which are in orchards, fields, and pastures. The Legislature in 1925 provided an appropriation for the purchase of 30 acres adjoining the farm for a demonstration orchard. There are in the neighborhood of 2500 apple trees upon the place. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar farm crops. The house 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. A cold storage plant has been provided for apples. The capacity of this plant is about 7500 boxes.

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 one of the main roads to Houlton. The Bangor and Aroostook Railroad crosses the farm.

The farm contains about 275 acres, somewhat more than half of which is cleared. The eight-room house provides an office and a home for the farm superintendent. The large barn affords storage for hay and grain and has a potato storage house in the basement.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroughly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, entomological, agricultural, and home economics 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 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 foods 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 notices of the Bulletins and Official Inspections as they are published. Upon request, any of the Bulletins or Official Inspections will be mailed free of charge to residents of Maine.

Summer Session

The Summer Session begins the first week in July and continues for six weeks. The faculty is made up mainly of members of the University staff of professorial rank and visiting professors from other institutions. Over one hundred courses in seventeen departments are now offered. Instruction is given in most of the subjects taught in the College of Arts and Sciences as well as in Chemistry, Pulp and Paper Technology, Physical Education, and Home Economics. A large amount of work is available in Education.

As an integral part of the University organization, the Summer Session insists upon similar standards of academic achievement. In general the same requirements for admission and the same regulations apply as during the regular academic year.

The Session is primarily for the benefit of teachers and superintendents of Maine and other states who desire to take professional courses in the field of Education or to pursue other subjects which may be helpful to them in connection with their work. Hence special attention is given to teachers' courses in the various subjects offered. The Session also affords opportunities for students in the University of Maine or other similar institutions to secure credits toward a degree and complete their work in a shorter time than would otherwise be possible. Normal-school graduates who are admitted to advanced standing as candidates for a bachelor's degree in the School of Education may do a considerable part of their work in the Summer Session.

Properly qualified graduates of colleges or universities may enroll in most departments as candidates for a master's degree and complete their work by attendance at the Summer Session. The minimum residence requirement in such cases is four sessions. An increasing number of summer students are candidates for an advanced degree.

Classes meet five times a week, Monday to Friday inclusive. Except in special cases the maximum registration is for three courses, the successful completion of which entitles the student to six semester hours of credit.

A registration fee of $5.00 is paid by all students. Tuition for a single two-credit course is $15.00; for each additional two-credit course, $10.00. In some courses involving laboratory work a special fee is charged.

The opening and closing dates for 1936 are Monday, July 6, and Friday, August 14. The Summer Session Bulletin, giving a list of the courses offered and detailed information, is published annually about March 1. For copies and other information address Dr. Roy M. Peterson, Director, Orono, Maine.

Alumni Associations

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1912 A. L. Deering, College Rd., Orono
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1930 Pauline Hall, 59 Fletcher St., Kennebunk
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1933 Mrs. Martha S. Baldwin, 275 Broadway, Norwich, Conn.
1934 Madelene Bunker, 281 Main St., Calais
1935 Agnes Crowley, 59 Western Ave., Biddeford

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1935

Ruth Clifford Harding, Stockton Springs; Norman Mason Jackson, Rumford; Arnold Kaplan, Roxbury, Mass.; Edith Carolyn Kennard, Bangor; Doris Evelyn Lawrence, Arrowsic; Marion Ella Martin, Bangor; Arthur Brooks Otis, Bridgton; Wilbert Lucien Pronovost, Jr., Watertown, Conn.; Donald Merwyn Stewart, New Haven, Conn.; Cynthia Helen Wasgatt, Rockland; John Coffin Willey, Cherryfield.

1936

Arlene Merrill, Bangor; Mildred Lucile Sawyer, Bangor.

Members of Tau Beta Pi

1935

Silas Loring Bates, Portland; Lyman Fowler Brewer, Portland; Ralph Lincoln Copeland, Jr., Brewer; Ernest Mayland Cram, East Auburn; Samuel Tucker Favor, Norway; Richard Alfred Gallop, Ridlonville; Ira Church Gray, Jr., Mansfield, Mass.; John Newcomb Hamilton, Belfast; Stanley David Henderson, Bath; Paul Irving Knight, South Eliot; Sidney Lincoln Look, Jonesboro; Louis Henry Morrison, Bangor; Aldiverde Isaac Norton, Camden; Donald Lincoln Pedersen, Peaks Island; Willis Grover Pratt, Hinckley; Fred Carroll Roberts, Andover; James Wilson Sanborn, Gorham; Lawrence Morton Tebbets, Auburn; Raymond Burgess Thorne, St. Albans.

1936

Actor Thompson Abbott, Jr., Trevett; Frederick Martin Beal, Darien, Conn.; Gerald Gibson Beverage, North Haven; John Matthews Coombs, Boothbay Harbor; John Marshall Etter, Bar Harbor; Richard Oliver Gordon, Portland; Ralph Franklin Hayes, Portland; John Porter Hennings, Portland; Lyndon Maynard Keller, Pripet; Thomas Frank Reed, Bangor; Leonard Alton Thomsen, Portland; James Adelbert Wakefield, Jr., Cumberland Center.

Members of Alpha Zeta

1935

John Hamilton DeWitt, Sherman Mills; William Nathan Farwell, Unity; Cecil Alden Gilbert, Greene; Joel White Marsh, Scarsdale, N. Y.; Merle Milton MacBride, Easton; Wesley Spaulding Norton, Strong; Ira Joseph Packard, Belfast; Basil George Staples, Kittery; Max Elvin Turner, Augusta.

1936

Alan Campbell Corbett, Orono; John Reynolds Dean, Waterville; Norton Preston Keene, Buckfield; Chester Williams Smith, Fairfield; Malcolm Louville Tilton, Burnham; Glen Willard Torrey, Auburn.

1937

Leslie Morton Hutchings, Portland; Robert Elwin McKusick, Guilford; Lester Hurlin Smith, Buxton.

Members of Phi Kappa Phi

1935

Silas Loring Bates, Portland; Lyman Fowler Brewer, Portland; Howard Ernest Etter, Bar Harbor; Maurice Kimball Goddard, Portland; John Newcomb Hamilton, Belfast; Ruth Clifford Harding, Stockton Springs; Stanley David Henderson, Bath; Norman Mason Jackson, Rumford; Arnold Kaplan, Roxbury, Mass.; Edith Carolyn Kennard, Bangor; Paul Irving Knight, South Eliot; Doris Evelyn Lawrence, Arrowsic; Harland Francis Leathers, Bangor; Ruth Martha Libby, Caribou; Louis Henry Morrison, Bangor; Wesley Spaulding Norton, Strong; Arthur Brooks Otis, Bridgton; Donald Lincoln Pedersen, Peaks Island; Wilbert Lucien Pronovost, Jr., Watertown, Conn.; James Wilson Sanborn, Gorham; Ruth Elizabeth Shurtleff, Portland; Donald Merwyn Stewart, New Haven, Conn.; Lawrence Morton Tebbets, Auburn; Raymond Burgess Thorne, St. Albans; Max Elvin Turner, Augusta; Robert Frank Turner, Veazie; John Coffin Willey, Cherryfield.

1936

Ann Elizabeth Eliasson, Ellsworth; Arlene Merrill, Bangor; Mildred Lucile Sawyer, Bangor.

Members of Kappa Delta Pi

1935

Clayton Russell Cronkite, Skowhegan; Hilda Titus Eaton, Little Deer Isle; Merle Sewall Jones, Weeks Mills; Paul Warren Moody, Gorham.

1936

Cathryn Rita Hoctor, Old Orchard Beach.

Members of Omicron Nu

1935

Marjorie Esther Church, Corinna; Clara Leslie Hodsdon, Stillwater; Florence Ida Kaminsky, Bangor; Ruth Martha Libby, Caribou; Ruth Elizabeth Shurtleff, Portland.

1936

Ann Elizabeth Eliasson, Ellsworth; Edith Bradley Hill, Orono.

Members of Xi Sigma Pi

1935

Kenneth Dinsmore Black, Portland; Donald Henry Boone, Portland; Robert Field Bucknam, Dexter; Richard Harrison Captain, Montclair, N. J.; George Davis Carlisle, Bangor; Maurice Kimball Goddard, Portland; Omar Chase Pease, North New Portland; Edward Lewis Spalding, Newburyport, Mass.

1936

Harold Thomas Boardman, Skowhegan; Gordon Richardson Heath, Worcester, Mass.; George Henry Northup, Morristown, N. J.; Alton Ernest Prince, Brewer; Fred Everett Winch, Jr., Framingham, Mass.; Charles Woelfel, Peabody, Mass.

Scholarships and Prizes

Kidder Scholarship, to be divided between Actor Thompson Abbott, Jr., Trevett, and Arlene Merrill, Bangor.

New York Alumni Association Scholarship No. 1, David Springer Brown, Ellsworth.

New York Alumni Association Scholarship No. 2, to be divided between Henry Phinney Little, Augusta, and Harland Franklin McPherson, Gray.

The Pittsburgh Alumni Association Scholarship, Frederick Martin Beal, Darien, Conn.

Prize of the Class of 1873, Henry Maxson Brown, Francestown, N. H.

Elizabeth Abbott Balentine Scholarship, Elizabeth Marion Story, Pigeon Cove, Mass.

Joseph Rider Farrington Scholarship, Clyde Elwyn Higgins, Lewiston.

Stanley Plummer Scholarship, Richard Shailer Waldron, Dexter.

Franklin Danforth Prize, Maurice Kimball Goddard, Portland.

Washington Alumni Association Watch, Merle Milton MacBride, Easton.

Portland Alumnae Association Watch, Ruth Clifford Harding, Stockton Springs.

Alpha Omicron Pi Alumnae Prize, Norma Caecelia Lueders, Marblehead, Mass.

Chi Omega Sociology Prize, Elizabeth Annette Gifford, Dorchester, Mass.

William Emery Parker Scholarship, Donald Albert Huff, Lynnfield Center, Mass.

Class of 1905 Scholarship, Francis Wilson Bradbury, Brewer.

Henry L. Griffin Prize in English Composition, Ellen Bailey Hodgkins, Bath.

Pale Blue Key Award, John Robert Gowell, South Portland.

Greek Culture Prize, Lawrence Augustine Mann, Bangor.

Charles Rice Cup, Phi Kappa Sigma.

Twentieth Century Commencement Cup, Class of 1910.

Class of 1908 Commencement Cup, Class of 1885.

Fraternity Scholarship Cup, Alpha Gamma Rho.

Women's Student Government Scholarship, Bernice Isabelle Yeomans, Danforth.

Sigma Mu Sigma Award, Faith Gertrude Folger, Fryeburg.

Spanish Club Prize, Sewall Jerome Ginsberg, Old Town.

The W. H. Bowker Scholarships, Wayne Howard Merrill, Cumberland Center, Carleton Lewis Duncan, Presque Isle.

The Merritt Caldwell Fernald Scholarship, Arlene Merrill, Bangor.

The Leon Stephen Merrill Scholarship, Ann Elizabeth Eliasson, Ellsworth.

The Harold Sherburne Boardman Scholarship, Actor Thompson Abbott, Jr., Trevett.

The James Stacy Stevens Scholarship, Mildred Lucile Sawyer, Bangor.

The Charles Henry Davidson Scholarship, Cathryn Rita Hoctor, Old Orchard Beach.

The University Scholarships, Merle Henry Bragdon, Westfield; Rachel Fowles, Belfast; Susan Belle Frost, Kingman; Faith Whittier Holden, Millinocket; Harland Franklin McPherson, Gray; Virginia Cobb Nelson, Guilford; Chester Williams Smith, Fairfield; Robert Loring Ohler, Newton Centre, Mass.; Edwin Holmes Rand, Unity; Sargent Russell, North Leeds; Alice Rose Stewart, Brunswick; Evelyn Buck Adriance, Maplewood, N. J.; Arland Ritchie Meade, Auburn; James Howard Siegel, Bangor; Sherman Vannah, Waldoboro.

Trustee Graduate Scholarships—Agriculture, Sylvia Alpert, Bangor; Arts and Sciences, Howard Ernest Etter, Bar Harbor; Annie Elizabeth Jenkins, Houlton; Lillian Frances Loveitt, South Portland; Lawrence Augustine Mann, Bangor; Frank Harold Todd, Topsham; Katherine Woodworth Trickey (Spring semester only), Bangor; Education, Manning Neri Arata, Hallowell.

Trustee Graduate Fellowships—Silas Loring Bates, Portland; Basil George Staples, Kittery; Donald Merwyn Stewart, New Haven, Conn.

Maritime Province Trustee Graduate Scholarship—Agriculture, Jean Catharine Burnham, University of New Brunswick, Fredericton, N. B.

Normal School Scholarships, (Castine), Martha Simmons, Sargentville; (Farmington), Barbara Colby, South Paris; (Machias), George Ira Morrison, Perry.

Charles H. Hood Fund Scholarships—Alan Campbell Corbett, Orono; John Reynolds Dean, Waterville; Leslie Morton Hutchings, Portland; Robert Elwin McKusick, Guilford; Arland Ritchie Meade, Auburn; Thomas William Owens, Portland; Glen Willard Torrey, Auburn.

Hovey Memorial Scholarships—Wentworth Ernest Beverage, Oakland; William Wyman Lewis, Oakland; Harland Franklin McPherson, Gray; Shirley Robinson Parsons, South Paris; Willis Grover Pratt, Hinckley; Lawrence Morton Tebbets, Auburn.

Carrol C. Jones Scholarship, John Perkins Williams, Ogunquit.

Ohio Alumni Association Scholarship, Shirley Robinson Parsons, South Paris.

Northern Aroostook Scholarship, Marguerite Mary Benjamin, Mars Hill.

Boston Alumni Scholarship No. 1, Elizabeth Philbrook, Brookline, Mass.

Boston Alumni Scholarship No. 2, Allen Dudley Trask, Melrose Highlands, Mass.

Philadelphia Alumni Scholarship, Ralph Anthony Beisel, Lehighton, Pa.

Penobscot Valley Alumni Scholarship No. 1, Nelson Bradford Carter, Brewer.

Penobscot Valley Alumni Scholarship No. 2, Edward Homer Redman, Bangor.
Southern New Hampshire Alumni Scholarship, Jeannette Frances MacKenzie, New Haven, Conn.
Southern California Alumni Scholarship, David Purington Pierce, Guilford.
Lincoln County Alumni Scholarship, Actor Thompson Abbott, Jr., Trevett.
Central Maine Alumni Scholarship, Malcolm Louville Tilton, Burnham.
Worcester County Alumni Scholarship, Alice Pierce, Lunenburg, Mass.
Omicron Nu Scholarship, Charlotte Louise Dimitre, Calais.
Payson Scholarships, William Eleazor Crowell, South Portland; Leonard Hayden Emery, Cumberland Mills; Robert Clyde Feero, Bath; Paul Lester Garvin, Alfred; George Jewett Harrison, Houlton; Marjorie Taylor, Bangor.
Alpha Zeta Award, Wesley Spaulding Norton, Strong.

Winners, State Scholarship Contest, Awarded June, 1935

Members of Class of 1939

Four-Year Scholarship

Newton Jennings Rodgers, Portland High School, Portland.

Three-Year Scholarship

Priscilla Day Haskell, Wiscasset Academy, Wiscasset.

Two-Year Scholarship

Helen Jackman Hanson, Cony High School, Augusta.

One-Year Scholarship

Vincent Victor Checchi, Calais Academy, Calais; Walton Earle Grundy, South Portland High School, South Portland; Jeanette Lamoreau, Presque Isle High School, Presque Isle; Barbara Fern Whittredge, Brewer High School, Brewer.

Awarded June, 1934

One-Year Scholarship

Donald Howard Quint, North Yarmouth Academy, Yarmouth.

Commencement 1935

Thursday, June 6

5:45 P.M. Phi Kappa Phi Initiation—Library
6:30 Phi Kappa Phi Banquet

Friday, June 7

1:30 P.M. Alumni Council Annual Meeting—Library
2:30 Class Day Exercises—The Oval
4:00 Pageant—given by All Maine Women—Coburn Green
8:00-10:00 President's Reception—President's House
9:00 Student Hop—Alumni Memorial

Saturday, June 8

9:00 A.M. Reunion Class Meetings in headquarters rooms
10:00 General Alumni Association Annual Meeting—Little Theatre
12:30 Alumni Luncheon in honor of Past Alumni Association Presidents—Alumni Memorial
1:45-2:15 Band Concert—The Oval
2:30-3:30 Frolics--The Oval
3:45 Baseball Game—Alumni vs. Seniors—Baseball Field
6:00 Alumni Banquet—Alumni Memorial
9:00 Alumni Hop—Alumni Memorial

Sunday, June 9

10:30 A.M. Baccalaureate Service—The Oval

Monday, June 10

9:30 A.M. Commencement Exercises—Alumni Memorial
8:00 P.M. Commencement Ball—Alumni Memorial

Degrees Conferred, 1935

College of Agriculture

Bachelor of Science

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Spurgeon Kearney Benjamin.....Mars Hill
Horace Martin Crandall.....Presque Isle
John Winston Hoyt.....Easton
Merle Milton MacBride, *With Distinction*.....Easton
Louis Rocheleau Parrott.....Plandome, N. Y.
Maurice Lee Sanborn.....Belfast

IN AGRONOMY

Albert Lindley Hagerthy.....Bangor
Stephen Lovell Read.....Belfast

IN ANIMAL HUSBANDRY

Cecil Alden Gilbert.....Greene

IN BIOLOGICAL AND AGRICULTURAL CHEMISTRY

Basil George Staples, *With Distinction*.....Kittery

IN DAIRY HUSBANDRY

John Hamilton DeWitt.....Sherman Mills
William Nathan Farwell.....Unity
Raymond Bennett Larcom.....Farmington
Wesley Spaulding Norton, *With Distinction*.....Strong
Ira Joseph Packard.....Belfast
John Foster Small.....Orono

IN DAIRY TECHNOLOGY

Donald Thomas Green.....North Waterford
Preston Clarence Whitaker.....Bangor

IN ENTOMOLOGY

Joel White Marsh.....Scarsdale, N. Y.

IN FORESTRY

Kenneth Dinsmore Black.....Portland
Donald Henry Boone.....Portland
Robert Field Bucknam.....Dexter
Richard Harrison Captain.....Montclair, N. J.
George Davis Carlisle.....Bangor
Stanley Goodman Cole.....Guilford, Conn.
Horace Stanley Field.....Dexter
Maurice Kimball Goddard, *With Highest Distinction*.....Portland
Allen Redlon Gray.....Westport
Howard William Hannigen.....Amesbury, Mass.
Raymond Corliss Hathorne.....Wiscasset
Robert Douglas Lord.....Ipswich, Mass.
George William Morrill, Jr.....Concord, N. H.
Woodrow Lenox Palmer.....Fryeburg
Omar Chase Pease.....North New Portland
Paige Butler Rand.....Lisbon
Samuel Hill Reese.....Wilmington, Del.
John Stuart Sabin.....Putnam, Conn.
Edward Lewis Spalding.....Newburyport, Mass.
Clayton Osborne Totman.....Greenfield, Mass.

IN HOME ECONOMICS

Sylvia Alpert.....Bangor
Ruth Evelyn Barrows.....Orono
Natalie Marie Birchall.....Port Washington, Long Island, N. Y.
Helen Mabel Blake.....Lagrange
Hortense Bradbury.....Old Town
Pauline Smith Budge.....Mattawamkeag
Marjorie Esther Church.....Corinna
Betty Lou Davis.....Monson
Isabel Josephine Freeman.....Brewer
Etta Mae Grange.....Smyrna Mills
Joanna Sharpe Harris.....Milo
Clara Leslie Hodsdon, *With Distinction*.....Stillwater
Florence Ida Kaminsky, *With Distinction*.....Bangor
Ruth Martha Libby, *With Highest Distinction*.....Caribou
Ruth Elizabeth Shurtleff, *With Distinction*.....Portland
Flora Elizabeth Stone.....Fort Fairfield
Margaret Deering Strout.....Bogota, N. J.
Ruth Josephine Todd.....Caribou

Rachel Katherine Wallace.....Orono
Margaret Ross Young.....Camden

IN HORTICULTURE

Henry Carlton Anderson.....Cape Elizabeth
Edward Stetson.....Portland
Max Elvin Turner, *With Distinction*.....Augusta

IN POULTRY HUSBANDRY

Bernhard Blom, *With Distinction*.....Brooklyn, N. Y.
Carl Alden Titcomb.....Dexter

College of Arts and Sciences

Bachelor of Arts

IN CHEMISTRY

Carolyn Louise Adams.....Portland

IN CLASSICS

Ivel Helen Cutter.....Bangor
Lawrence Augustine Mann.....Bangor

IN DRAMA

Dorothy Louise Sawyer.....Jonesport
Alice Elizabeth Sisco.....Portland

IN ECONOMICS AND SOCIOLOGY

Orrin Samuel Bradbury.....Rockland
Charles George Brountas.....Bangor
Edward Leroy Butler, Jr.....Portland
Monte Cohen.....Winthrop, Mass.
Harry Horace Day.....Orono
Walter Lee Emerson, Jr.....Portland
Donald Merritt Gay.....Casco
Paul Edmund Goode.....Bangor
William Conway Halpine.....Portland
Carl Nicholas Honer.....Hartford, Conn.
Mildred Frances Johnson.....LaTuque, Quebec

Eugene Adelbert Jordan.....Lisbon
Arnold Kaplan, *With Distinction*.....Roxbury, Mass.
Samuel Levy.....Calais
Paul Joseph McDonnell.....Portland
Marion Ella Martin.....Bangor
Dudley Sperry Merrill.....Bronxville, N. Y.
Stuart Holt Mosher.....Orono
Donald Joseph Murphy.....Bangor
Warren Thompson Pratt.....Westbrook
Lucinda Elizabeth Ripley.....South Paris
Wendall Temple Smart.....Bangor
Richard St. Clair Stoddard.....Rockland
Dorothea Louise Temple.....Richmond
Russell Archer Walton.....Wellesley, Mass.

IN ENGLISH

Ernest Thayer Black.....Portland
Carl Huntington Bottume.....Hamden, Conn.
Frances Janet Brown.....Skowhegan
Velma Ina Colson.....Guilford
Agnes Katherine Crowley.....Biddeford
Dorothy Constance Frye.....Portland
Roland Ernest Gibbs.....Bangor
Kathleen Eda Hardy.....Bangor
Phyllis Wing Johnson.....LaTuque, Quebec
Edith Carolyn Kennard.....Bangor
Harland Francis Leathers.....Bangor
Roberta Anne Lewis.....Newport
Edna Louise Mathews.....Belfast
Philip Greenlaw Pendell.....Caribou
Joyce Cheney Stevens.....Orono
Donald Merwyn Stewart.....New Haven, Conn.
Jean Grant Walker.....Millinocket
Hope Bradford Whitman.....Turner
Louise Elizabeth Wilhelm.....New Haven, Conn.
John Coffin Willey, *With High Distinction*.....Cherryfield
Richard Poole Wooster.....Old Town

IN GERMAN

Nathan Arthur Cohen.....Bangor
Miriam West Linscott.....East Milton, Mass.
Annie Estelle MacLellan.....Weeks Mills

IN HISTORY AND GOVERNMENT

Albert Sawyer Allan.....Machias
Adney Hamilton Boothby.....Livermore Falls
John Balch Branch.....Auburn
George Lane Cobb.....Lewiston
William Bruce Cole.....Prospect Harbor
Oscar Fellows.....Bangor
Sumner Orrin Hancock.....Casco
Norman Howard Harmon.....Limerick
Annie Elizabeth Jenkins.....Houlton
Frank William Myers.....Old Town
Hugh Edward Ryan.....Stamford, Conn.
Helen Irene Twombly.....Monroe
Donna Victoria Weymouth.....Abbot

IN MATHEMATICS

George Evans Fitch.....East Sebago
Rhona Roberta Gray.....Bangor
Earle William Hill.....Bingham
Doris Evelyn Lawrence, *With High Distinction*.....Arrowsic
Lucius Robert Merrill.....Orono
Wilbert Lucien Pronovost, Jr.....Watertown, Conn.
Philip Aloysius Ryan.....Bucksport
Charles Edgar Towle.....Fort Fairfield
Beryl Elisabeth Warner.....Bangor
Carl Addison Whitman.....East Auburn
Mildred Sarah Willard.....Orono

IN PHYSICS

Howard Ernest Etter.....Bar Harbor

IN PSYCHOLOGY

Thelma Lee Blackington.....Rockland
Mary Christine Homer.....Franklin
Gwendolyn Gunn Roche.....Portland
Virginia Elizabeth Trundy.....Searsport

IN ROMANCE LANGUAGES

Jane Gerry Chase.....Bucksport
Eleanor Genevieve Gowen.....Biddeford

Shirley Libby Hatch.....Shirley, Mass.
Prudence Elaine Hayes.....Orono
Charlotte Marguerite Lachance.....Biddeford
Ella Mae Rowe.....Bar Harbor

IN ZOOLOGY

Donald LeRoy Anderson.....Caribou
Karl Valentine Anderson.....Derby
Henry Alden Brann.....Augusta
Earl Dresser Brown.....Norway Lake
Margaret Standish Copeland.....Arlington, Mass.
Marcus George Hallenbeck.....Westwood, Mass.
Ruth Clifford Harding, *With High Distinction*.....Stockton Springs
Harry Helfand.....Milford, Mass.
Norman Mason Jackson, *With High Distinction*.....Rumford
Philip Leonard Johnson.....Machias
Lloyd Albert Koonz.....Augusta
Donald Louvell Kyer.....Bangor
Arthur Ames Nichols.....Newtonville, Mass.
Arthur Brooks Otis, *With Distinction*.....Bridgton
Francis Lawrence Topolosky.....Portland
Cynthia Helen Wasgatt.....Rockland
Herbert Tilden Wilbur, Jr.....Bar Harbor
Robert Frederick Wishart.....Rumford

School of Education

Bachelor of Arts in Education

Violet Dora Colson.....Guilford
Mary Elizabeth Gray.....Van Buren
Laura Margaret Wesolowska.....Shirley, Mass.

Bachelor of Science in Education

Daniel Joseph Barrett.....Danforth
John Rodney Coffin.....Ashland
William Jeffery Curran.....Milo
Roger Clarke Danforth.....Castine
Walter Alanson Downs.....Bangor
Hilda Titus Eaton.....Little Deer Isle

Hollis Page Ingalls.....Machias
William Henry Jenkins.....Presque Isle
Harvey Ralph Johnson.....Sanford
Merle Sewall Jones.....Weeks Mills
Doris Emeline Lindsey.....East Machias
Ruth Marie Miller.....Newport
Paul Warren Moody.....Gorham
Floyd Llewellyn Powell.....Pittsfield
Harry Clayton Saunders, Jr.....Brunswick
Nathan William White.....Presque Isle

College of Technology

Bachelor of Science

in chemistry

Paul Johnson Corban.....Hartford, Conn.
Ernest Mayland Cram, *With Distinction*.....East Auburn
Hyman Gotlieb.....Bangor
William Oliver Gould.....Bangor
Ira Church Gray, Jr., *With Distinction*.....Mansfield, Mass.
Frederick Milton Hall.....Rockland
Robert Gage Higgins.....Lewiston
Carl Franklin Ingraham.....South Portland
Roy Howard Monroe.....Milo
David Harred Rubin.....Bangor

in chemical engineering

Byron George Avery.....Woodland
Wentworth Ernest Beverage.....Oakland
Carl Aaron Briggs.....Bangor
Herbert Kenerson Cook.....Calais
James Douglas Crocker.....Patten
Paul Irving Knight, *With Distinction*.....South Eliot
Richard Herman Mansur, *With Distinction*.....Augusta
John Albert Ross.....Orono
Arthur Browning Sherry, Jr.....Portland
Arthur Perry Stubbs.....Orono

IN CIVIL ENGINEERING

Robert Cushman Arey.....Milford, Mass.
Richard Parker Barstow.....Auburn
Paul Webster Bean.....Auburn
Edward Charles Ellsworth.....Bloomfield, Conn.
Henry Ball Gallison.....Hancock Point
James Dennis Hanson.....York Village
Henry Russell Higgins.....Newport
Emery Stanley Littlefield, Jr.....Alfred
Sidney Lincoln Look, *With Distinction*.....Jonesboro
Wallace Wendell Lord.....East Lebanon
Clifford Shedd Mansfield.....Wakefield, Mass.
Stephen Samuel Marshall, Jr.....Bath
Francis Goodwin Morong.....South Portland
Vernon Loring Packard.....Warren
Woodrow Evans Page.....East Corinth
Willis Grover Pratt, *With Distinction*.....Hinckley
Charles Darius Pressey.....Bangor
Norman Julian Rawding.....Harmony
Ashton Parker Sawyer.....Portland
Kenrick Anderson Sparrow.....South Orleans, Mass.
Ralph Donald Stone.....Gardiner
John Paul Venskus.....Mexico

IN ELECTRICAL ENGINEERING

Leslie Murch Berry.....South Portland
Lyman Fowler Brewer, *With Distinction*.....Portland
Richard Drinkwater Bucknam.....Yarmouth
Earle Oliver Collins, *With Distinction*.....Anson
Ralph Lincoln Copeland, Jr.....Brewer
Everett Charles Creamer.....Greene
George Eloi Desjardins.....Old Town
Alfred Wallace Fuller.....Pittsfield
Lorenzo Arthur Gagnon.....Brunswick
John Newcomb Hamilton, *With High Distinction*.....Belfast
Otis Turner Hanson.....Houlton
Harold O'Roak Larrabee.....Dover-Foxcroft
Roy Ibra Lawrence.....Arrowsic
Wilfrid Gordon Matheson.....Portland
Angelo Guy Miniutti.....North Berwick

Louis Henry Morrison, *With Distinction*.....Bangor
Vernon Chase Morrison.....Bangor
Curtis Blood Plummer.....Alfred
Thomas Elie Richard.....Bangor
Fred Carroll Roberts, *With Distinction*.....Andover
Ralph Leith Wadleigh.....Old Town
George William Warren.....Dover-Foxcroft

IN GENERAL ENGINEERING

James Wilson Sanborn, *With High Distinction*.....Gorham
Elmore Laurence Wood.....Waterville

IN MECHANICAL ENGINEERING

Darrel Earl Badger.....St. Albans
Silas Loring Bates, *With Distinction*.....Portland
Ralph Emerson Beers.....Boston, Mass.
William Herbert Bessom.....Cape Porpoise
Charles Edmund Bicknell.....Rockland
Malcolm Frederick Carr.....Dexter
Wilfred Omara Cooney.....Brownville Junction
Henry Whitman Fales.....Thomaston
Samuel Tucker Favor, *With Distinction*.....Norway
Horace Parker Frost.....Caribou
Albert Henry Galbraith.....Pleasant Plains, Staten Island, N. Y.
Richard Alfred Gallop.....Ridlonville
Stanley David Henderson, *With High Distinction*.....Bath
Donald Edward McCann.....East Millinocket
Aldiverde Isaac Norton, *With Distinction*.....Camden
Donald Lincoln Pedersen, *With Highest Distinction*.....Peaks Island
Ralph Linwood Perkins, Jr.....Bangor
Walter Allen Richardson, Jr.....Port Clyde
Kenneth Prince Sullivan.....Bangor
Oscar Moores Taylor.....Rumford
Lawrence Morton Tebbets, *With Distinction*.....Auburn
Raymond Burgess Thorne, *With Highest Distinction*.....St. Albans
Robert Frank Turner, *With Distinction*.....Veazie
Warren Littlefield Walker.....Kennebunk
Craig Jameson Welch.....Madison
Walter Alfred White.....Saco
Leslie Clough Young.....Onawa

IN PULP AND PAPER TECHNOLOGY

Charles Frank Dwinal, Jr. ..... Bangor
Kenneth Jordan Kimball ..... Camden
James Woodrow Marcille ..... Biddeford
Glendon Arthur Soule ..... Freeport

Degrees Out of Course

Bachelor of Science

Hobart Goold Lackee (In Mechanical Engineering) ..... Chicago, Ill.
(As of the Class of 1918)

Advanced Degrees

Master of Arts

IN ECONOMICS

John Edward Largay (A.B., Manhattan, 1931) ..... Bangor
A Survey of Fire Insurance and Fire Protection Facilities in Penobscot County

IN ECONOMICS AND SOCIOLOGY

George Archibald Riley (A.B., Tufts, 1928) ..... Ellsworth
A History of Tanning in the State of Maine

IN EDUCATION

Sarah Ada Adriance (A.B., New York State College for Teachers, 1920) ..... Glens Falls, N. Y.
The Relative Merits of the Use of Intensive and Extensive Reading by Twelfth-Year Pupils in American History
Kermit Spearin Nickerson (B.A., Dartmouth, 1926) ..... Winterport
Tenure of Superintendents of Schools in the State of Maine from 1917 to 1935

IN ENGLISH

Douglas Ross Angus (B.A., Acadia, 1934) ..... Amherst, N. S.
The Art of Satire in the *Prologue* to *The Canterbury Tales*

Doris Lane Gross (B.A., Maine, 1931) ..... Stonington
Three Portraits: Women of Transcendental New England
William Lawrence Thompson (B.A., Maine, 1934) ..... Portland
The Yellow Book and its Poetry
Martha Ilona Tuomi (B.A., Maine, 1934) ..... Monson
Dr. Frederic Henry Hedge: A Study of his Life and Literary Work to the Close of his Pastorate in Bangor, 1850

IN FRENCH

Sister Mary Eucharia Keegan (B.S.E., St. Joseph's College, 1919) ..... Bangor
Victor Hugo and Popular Primary Education in France in the Nineteenth Century

IN PSYCHOLOGY

Malcolm Young McCormick (B.S., Maine, 1932) ..... Bangor
A Tachistoscopic Study of Certain Factors in the Perception of Depth and Solidity

MASTER OF SCIENCE

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Maynard Alton Hincks (B.S., Maine, 1932) ..... Orono
An Economic Study of the Sources of Farm Mortgage Credit

IN BACTERIOLOGY

Clarence Kirby Wadsworth (B.S., Maine, 1934) ..... Gardiner
Variability in Lactose Utilization by Slow Lactose Fermenting Bacteria

IN CIVIL ENGINEERING

Rufus Guy Jasper (B.S., Maine, 1930) ..... Auburn
An Investigation of the Effectiveness of Stop Signs and Stated Speed Slow Signs at Highway Intersections Having Obstructions of View

IN HOME ECONOMICS

Dorothy Ethel Baker (B.S., Maine, 1932) ..... Portland
A Study of Basal Metabolisms of Maine College Women

IN MATHEMATICS

Neil Moody Calderwood (B.S., Maine, 1932) ..... Vinalhaven
A Statistical Study of Sand Mortars Made from Sands of Northern Maine

IN PHYSICS

Roger Aylmer Allen (B.S., Parsons, 1933) ..... Orono
The Magnetic Field Intensity about a Solenoid

IN PULP AND PAPER TECHNOLOGY

Robert McColl Young (B.S., Michigan, 1931) ..... Prospect Park, Pa.
The Use of Two Process Crepe in the Manufacture of Towel Paper

Departmental Honors

College of Arts and Sciences

IN ECONOMICS AND SOCIOLOGY

Arnold Kaplan
Marion Ella Martin

IN ENGLISH

Donald Merwyn Stewart
John Coffin Willey

IN HISTORY AND GOVERNMENT

Annie Elizabeth Jenkins

IN MATHEMATICS AND ASTRONOMY

Doris Evelyn Lawrence
Wilbert Lucien Pronovost, Jr.
Beryl Elisabeth Warner
Mildred Sarah Willard

IN PHYSICS

Howard Ernest Etter

IN ROMANCE LANGUAGES

Eleanor Genevieve Gowen

IN ZOOLOGY

Ruth Clifford Harding
Norman Mason Jackson
Arthur Ames Nichols
Arthur Brooks Otis
Cynthia Helen Wasgatt

College of Technology

IN CHEMISTRY AND CHEMICAL ENGINEERING

Ernest Mayland Cram
Ira Church Gray, Jr.
Richard Herman Mansur

IN CIVIL ENGINEERING

Henry Ball Gallison
Willis Grover Pratt

IN ELECTRICAL ENGINEERING

John Newcomb Hamilton
Louis Henry Morrison
Vernon Chase Morrison

IN GENERAL ENGINEERING

James Wilson Sanborn

IN MECHANICAL ENGINEERING

Silas Loring Bates
Henry Whitman Fales
Stanley David Henderson
Aldiverde Isaac Norton
Donald Lincoln Pedersen
Lawrence Morton Tebbets
Raymond Burgess Thorne

The following received commissions as Second Lieutenant, Officers' Reserve Corps

INFANTRY

Paul Webster Bean
George Lane Cobb
Earle Oliver Collins
Ralph Lincoln Copeland, Jr.
Harry Horace Day
John Hamilton DeWitt
Richard Vaughan Gaffney
Albert Henry Galbraith
Maurice Kimball Goddard
Donald Thomas Green
Earle William Hill
Carl Nicholas Honer
Kenneth Jordan Kimball
Sidney Lincoln Look
Wallace Wendell Lord
Stephen Samuel Marshall, Jr.
Vernon Loring Packard
Woodrow Evans Page
Ashton Parker Sawyer
Clayton Osborne Totman
George William Warren
Craig Jameson Welch
Walter Alfred White
Frank Theodore Wood

Honorary Degrees

Louis Jefferson Brann, Doctor of Laws
Henry Styles Bridges, Doctor of Laws
Francis Trenholm Crowe, Doctor of Engineering
Laura Elizabeth Richards, Doctor of Letters
Carleton Wellesley Stanley, Doctor of Laws
Dawn Nelson Wallace, Doctor of Education
David Logan Wilson, Doctor of Humane Letters

Catalog of Students

Major subjects are indicated as follows: Ae. Agricultural Education, Ag. Agronomy, Agr. Agriculture, An. Animal Husbandry, Bc. Biological Chemistry, Bt. Botany, By. Bacteriology, Ch. Chemistry, Ch. Eng. Chemical Engineering, Ce. Civil Engineering, Cl. Classics, Dh. Dairy Husbandry, Di. Dairy Industry, Dr. Drama, Dt. Dairy Technology, Ed. Education, Ee. Electrical Engineering, Eh. English, En. Entomology, Eng. Engineering (Course not specified), Es. Economics and Sociology, Fm. Agricultural Economics and Farm Management, Fr. French, Fy. Forestry, Ge. General Engineering, Gm. German, Hy. History and Government, He. Home Economics, Ht. Horticulture, Lt. Latin, Me. Mechanical Engineering, Ms. Mathematics, Pa. Pulp and Paper Technology, Pc. Physiological Chemistry, Pg. Physiology, Ph. Poultry Husbandry, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Py. Psychology, Rl. Romance Languages, Zo. Zoology. Chemistry in the College of Arts and Sciences is indicated by Ch.A.

GRADUATE STUDENTS

Alpert, Sylvia, B.S., He. Maine, 1935	*Bangor*	137 State Street, Bangor
Arata, Manning Neri, B.S. in Ed., Ed. Boston University, 1930	*Hallowell*	22½ Mill Street
Bates, Silas Loring, B.S., Me. Maine, 1935	*Portland*	Φ Γ Δ House
Bottume, Carl Huntington, B.A., Eh. Maine, 1935	*Hamden, Conn.*	227 Main Street
Buck, Margaret Anna, B.A., Zo. Maine, 1932	*Bangor*	235 French Street, Bangor
Burnham, Jean Catharine, B.A., En. New Brunswick, 1935	*Fredericton, N. B.*	148 College Road
Cram, Ernest Mayland, B.S., Ch. Maine, 1935	*Winthrop*	23 Park Street
Davis, Garnet Edward, B.S., Di. Maryland, 1934	*Rocks, Md.*	25 Myrtle Street
Ebbeson, Gertrude Elvira, B.Arch., Hy. Massachusetts Institute of Technology, 1933	*Bangor*	Balentine Hall

Etter, Howard Ernest, B.A., Ps. Maine, 1935	*Bar Harbor*	43 Main Street
Greeley, George Vincent, A.B., Ed. Shepherd State Teachers College, 1933	*Hallowell*	22½ Mill Street
Hook, Arnold Evans, B.S., By. Wisconsin, 1934	*Fort Atkinson, Wis.*	59 College Road
Jenkins, Annie Elizabeth, B.A., Hy. Maine, 1935	*Houlton*	33 Peters Street
Judkins, Wesley Parkhurst, B.S., Ht. Maine, 1934	*Waterville*	Horticulture Greenhouse
Kyer, Donald Louvell, B.A., Zo. Maine, 1935	*Brewer*	236 Wilson Street, Brewer
Lloyd, Clifford Egerton, B.S., Bt. Cornell University, 1932	*Bloomingburg, N. Y.*	60 Park Street
Loring, Fred Perley, B.S., Fm. Maine, 1916	*Orono*	79 Bennoch Street
Loveitt, Lillian Frances, B.A., Hy. Maine, 1930	*South Portland*	3 Park Street
Lutz, Marguerite Wheaton, B.S., Ed. Farmington Normal, 1932	*Bangor*	224 Nowell Road, Bangor
Mann, Lawrence Augustine, B.A., Cl. Maine, 1935	*Bangor*	43 Parkview Ave., Bangor
Meinecke, Charlotte Drummond, B.A., Eh. Smith, 1928	*Bangor*	91 West Broadway, Bangor
Prescott, Herbert Leroy, A.B., Ed. Bowdoin, 1930	*Bangor*	49B Kenduskeag Ave., Bangor
Rosenstein, Ann, B.A., Hy. Maine, 1936	*Wells*	10 Main Street
Shyr, Jiun, B.S., Pa. National Tsing Hua University, 1934	*Shanghai, China*	12 Park Street
Snider, Rose, B.A., Eh. Maine, 1933	*Portland*	North Hall
Sparrow, Theron Alonzo, B.S., Me. Maine, 1924	*Orono*	10 Main Street
Staples, Basil George, B.S., Bc. Maine, 1935	*Kittery*	25 Grove Street
Stewart, Donald Merwyn, B.A., Eh. Maine, 1935	*New Haven, Conn.*	Σ N House
Thompson, Oscar Thomas, B.S., M.S., Ch.Eng. Maine, 1932, 1934	*Lincoln*	48 Pierce Street

Todd, Frank Harold, B.S., Ms. Bowdoin, 1935	*Topsham*	R.F.D. #7, Bangor
Townsend, Emma Julia, B.A., Ed. Wellesley, 1929	*Bangor*	64 Royal Road, Bangor
Watson, Andrew Elwell, B.S., Fm. Maine, 1934	*Oakland*	164 College Road
Wood, Elmore Laurence, B.S., Ee. Maine, 1935	*Waterville*	Φ Γ Δ House
Young, Stanley Paul, B.S., Me. Maine, 1934	*Orono*	83 Park Street

SENIORS

Abbott, Actor Thompson, Jr., Ce.	*Trevett*	52 North Main Street
Aiken, Mary Claire, He.	*Brewer*	22 High Street, Brewer
Allen, Marcia, Es.	*Bangor*	110 Center Street, Bangor
Allen, Rena Maria, He.	*Bangor*	South Hall
Anderson, Fred Andrew, Zo.	*Milo*	College Road
Archer, Marie Clover, Zo.	*Milbridge*	Balentine Hall
Arno, John Raymond, Ag.	*Dexter*	A Γ P House
Asnip, Margaret Irene, Eh.	*Saco*	Balentine Hall
Averill, Roswell Pierce, Es.	*Old Town*	32 High Street, Old Town
Bacheller, Chester Daniel, Ph.	*Oakland*	A Γ P House
Bailey, Dean Manter, Bt.	*Waterville*	Park Street
Barker, William Francis, Me.	*Stamford, Conn.*	77 Mill Street
Beal, Frederick Martin, Ce.	*Darien, Conn.*	52 North Main Street
Beverage, Gerald Gibson, Ge.	*North Haven*	Σ A E House
Birchard, Junius Wilson, Hy.	*Warren, Pa.*	Campus
Blake, William Douglass, Fy.	*Greenfield, Mass.*	Σ N House
Blanchard, Estelle Sheldon, He.	*Cumberland Center*	North Hall
Boardman, Harold Thomas, Fy.	*Skowhegan*	Λ X A House
Boardman, James Alden, Ge.	*Orono*	172 Main Street
Boardman, Rosemary, He.	*Orono*	172 Main Street
Bragdon, Merle Henry, Ps.	*Westfield*	25 Grove Street
Brooks, Willard Nash, Ce.	*Addison*	Λ X A House
Brown, David Springer, Hy.	*Ellsworth*	148 College Road
Brown, Donald Marshall, Ce.	*Marion, Conn.*	Φ H K House
Brown, Donald Warren, Es.	*South Portland*	Θ X House

Brown, Eileen Elizabeth, Ed.	*Brewer*	Balentine Hall
Buck, Pearl Parshley, Rl.	*Bangor*	23 Elizabeth Avenue, Bangor
Buker, Helen Louise, Eh.	*Auburn*	Balentine Hall
Burke, Roger Wallace, Es.	*Portland*	Φ Γ Δ House
Burns, Robert Aloysius, Hy.	*Bangor*	308 Center Street, Bangor
Bussell, Catharene Anne, Eh.	*Old Town*	11 Oak Street, Old Town
Callaghan, Frances Catherine, He.	*South Brewer*	South Hall
Campbell, Alice Wood, Ms.	*Machias*	Balentine Hall
Campbell, Truman Frederick, Ms.	*Boothbay Harbor*	35 Grove Street
Cann, Dorothy Virginia, He.	*Higganum, Conn.*	South Hall
Carroll, Rachel, Eh.	*Southwest Harbor*	Balentine Hall
Chadwick, Frank Newton, Jr., Dh.	*Bradford, Mass.*	Farm Boarding House
Chapman, Franklin Sproat, Fm.	*Bethel*	Σ N House
Chase, Richard Getchell, Es.	*Orono*	40 Myrtle Street
Chittick, Robert Harris, Fm.	*Portland*	Θ X House
Churchill, Thomas William, Eh.	*North Parsonsfield*	6 Mill Street
Chute, Kenneth Merton, Ce.	*Harrison*	Σ A E House
Clark, Harland Bailey, Dh.	*Brooks*	A Γ P House
Clarke, George Ahrens, Ch.A.	*South Portland*	Θ X House
Coburn, Winifred Louisa, He.	*Greene*	North Hall
Cohen, Mae Elouise, Py.	*Bangor*	50 East Summer Street, Bangor
Collette, Myron Gilbert, Ps.	*Spencer, Mass.*	102 H. H. Hall
Colwell, Gladys Mae, Zo.	*Hancock*	Colvin Hall
Coombs, John Matthews, Ee.	*Boothbay Harbor*	80 North Main Street
Cooper, Almon Bird, Jr., Fy.	*Rockland*	24 Pierce Street
Corbett, Alan Campbell, Dh.	*Orono*	Φ M Δ House
Côté, Lawrence Frederick, Ce.	*Caribou*	Farm Boarding House
Cowan, Frank Raymond, Jr., Me.	*Brewer*	30 School Street, Brewer
Cox, Alfred Bentley, Ee.	*Livermore Falls*	Φ M Δ House
Crane, Thomas Willard, Ee.	*South Portland*	Σ X House
Crockett, Charles, Es.	*Stonington*	T E Φ House
Crowder, Albert Phillip, Es.	*Bangor*	310 Broadway, Bangor
Crowell, Alice Gammon, Es.	*Bangor*	Balentine Hall
Crowley, Elizabeth Anne, He.	*Lewiston*	Balentine Hall
Currie, Darrel Bishop, Hy.	*Hartland*	Σ N House
Currie, Gustavus Noel, Fm.	*Presque Isle*	45 Mill Street
Currier, Carolyn Emily, Ms.	*Bangor*	Colvin Hall

Day, James Otto, Eh.	*Beverly Farms, Mass.*	36 College Road
Dean, John Reynolds, An.	*Waterville*	25 Grove Street
DeCormier, Phyllis Delaney, Eh.	*Westbrook*	South Hall
Delaney, Catherine Eleanor, Ed.	*Dorchester, Mass.*	Balentine Hall
Dennett, Firth Lombard, Pa.	*Brownfield*	Δ T Δ House
Dexter, Charles Francis, Me.	*Norwood, Mass.*	K Σ House
Diamon, David Lester, Ch.A.	*Portland*	12 Park Street
Doherty, Albert Vincent, Es.	*Bangor*	A T Ω House
Dole, Ira Frederic, Ce.	*Bangor*	Λ X A House
Dorr, Leonore Evelyn, He.	*Brewer*	236 Center Street, Brewer
Dow, Vivian Jennie, Rl.	*Stillwater*	Stillwater
Dowd, Maxim James, Es.	*Portland*	Φ K Σ House
Downey, Adrian Kenneth, Zo.	*Arlington, Mass.*	Θ X House
Eliasson, Ann Elizabeth, He.	*Ellsworth*	Balentine Hall
Epstein, Geneva Rheta, Gm.	*Bangor*	Colvin Hall
Estabrook, Richard Winthrop, Ch.Eng.	*Portland*	B Θ Π House
Etter, John Marshall, Ee.	*Bar Harbor*	43 Main Street
Farrer, Lawrence Arnold, Ce.	*Easton*	5A Mill Street
Fifield, Charlotte Osgood, He.	*Orono*	South Hall
Fitch, Donald Max, Eh.	*Orono*	32 College Road
Flanagan, John Wilfrid, Ee.	*Bangor*	207 Maple Street, Bangor
Fogarty, John Joseph, Ms.	*West Haven, Conn.*	Σ X House
Foster, Ralph Leo, Ed.	*Frenchville*	90 Park Street
Foster, Ruel Marshal, Fy.	*Milford*	Milford
Fowles, Rachel Ann, He.	*Belfast*	North Hall
Frame, George Marshall, Es.	*Searsport*	K Σ House
Frost, Susan Belle, Hy.	*Kingman*	Balentine Hall
Fuller, Charlotte Ann, Rl.	*Hallowell*	Colvin Hall
Fuller, Georgia Isabel, Eh.	*Togus*	Colvin Hall
Gaffney, Richard Vaughan, Fy.	*Portland*	Φ Γ Δ House
Gailey, Raymond Henry, Hy.	*Portland*	83 Park Street
Galbraith, Joseph, Me.	*Pleasant Plains, Staten Island, N. Y.*	B Θ Π House
Gardner, Edith Oak, He.	*Orono*	133 Main Street
Gardner, John Cook Moore, Jr., Ed.	*Castine*	35 Grove Street
Garvin, Paul Lester, Ht.	*Alfred*	Δ T Δ House
Getchell, John Simmons, Zo.	*Oakland*	Λ X A House

Giddings, Elizabeth Helen, Zo.	*Saco*	Balentine Hall
Gifford, Elizabeth Annette, Eh.	*Dorchester, Mass.*	The Maples
Gillespie, Arthur Merton, Zo.	*Stillwater*	Stillwater
Golobski, Bruno, Eh.	*Lawrence, Mass.*	307 H. H. Hall
Gonya, Helen Elizabeth, Rl.	*Millinocket*	Colvin Hall
Goodwin, Ruth Emma, Eh.	*Alfred*	Balentine Hall
Gordon, Richard Oliver, Ch.	*Portland*	Σ N House
Grant, Clarice Jeanette, Cl.	*Sandy Point*	Balentine Hall
Greaney, John Charles, Ed.	*Houlton*	86 Mill Street
Haggett, James Wilder, Ge.	*North Edgecomb*	Δ T Δ House
Haggett, Robert Marshall, Ee.	*Portland*	Δ T Δ House
Hall, Margaret Elizabeth, Eh.	*Castine*	24 Crosby Street
Hallé, Leonel Paul, Eh.	*Skowhegan*	K Σ House
Hamilton, Phylis Brander, He.	*South Portland*	North Hall
Hanson, Edward Coe, Me.	*South Swansea, Mass.*	Φ M Δ House
Harriman, Margaret Agnes, Ms.	*Ellsworth*	South Hall
Harrison, George Jewett, Zo.	*Houlton*	Σ N House
Hathorn, Vincent Laforest, Me.	*Pittsfield*	6 Mill Street
Hayes, Ralph Franklin, Ch.Eng.	*Portland*	Λ X A House
Heald, Alvin Lyman, Ce.	*Union*	Σ A E House
Heath, Gordon Richardson, Fy.	*Worcester, Mass.*	Φ Γ Δ House
Hennings, John Porter, Ce.	*Portland*	36 College Road
Hickey, Frederick Henry, Es.	*Old Town*	19 High Street, Old Town
Higgins, Clyde Elwyn, Dt.	*Lewiston*	412 H. H. Hall
Higgins, Ralph Percy, Eh.	*Old Town*	201 Stillwater Avenue, Old Town
Hill, Edith Bradley, He.	*Orono*	9 Kell Street
Hill, Elinor Margueritta, He.	*Orono*	University Place
Hill, Thomas Mason, Es.	*Bucksport*	K Σ House
Hilton, Marion Agnes, He.	*Anson*	South Hall
Hinckley, William Peters, Pa.	*Bluehill*	Σ X House
Hinkley, Ruth Constance, Eh.	*Brewer*	Balentine Hall
Hinman, Louise Jackson, Py.	*Skowhegan*	164 College Road
Hirshon, Selvin, Zo.	*Portland*	43 Main Street
Hoctor, Cathryn Rita, Ed.	*Old Orchard Beach*	Balentine Hall
Holden, Faith Whittier, Cl.	*Millinocket*	Balentine Hall
Homan, Carroll Alfred, Pa.	*Portland*	Σ X House

Homer, Margaret Sibyl, He.	*Franklin*	Balentine Hall
Hotz, Joseph Matthew, Gm.	*Orono*	12 Park Street
Huff, Donald Albert, Hy.	*Lynnfield Center, Mass.*	312 H. H. Hall
Hutchins, Roger Dexter, Me.	*Cape Porpoise*	Σ A E House
Ireland, Kenneth Lawrence, Ge.	*Biddeford*	Φ K Σ House
Jacques, Charles Wesley, Jr., Es.	*Bangor*	63 Congress Street, Bangor
Johnson, Donald Goodwin, Zo.	*Bar Harbor*	Λ X A House
Johnson, Thomas Cabot, Fy.	*Nahant, Mass.*	Θ X House
Johnstone, Kenneth Horace, Ms.	*Portland*	Φ K Σ House
Jordan, Elizabeth Pennell, Py.	*Portland*	Balentine Hall
Keene, Norton Preston, Dh.	*Buckfield*	A Γ P House
Keller, Lyndon Maynard, Ce.	*Pripet*	K Σ House
Kenny, John Charles, Ch.Eng.	*Palmer, Mass.*	Θ X House
Lamb, Winifred Upton, Ed.	*Lincolnville*	Balentine Hall
Langille, Ranald, Es.	*York Village*	18 Oak Street
Larson, Karl Vincent, Zo.	*Machias*	Λ X A House
Levensaler, Atwood, Dr.	*Rockland*	43 Main Street
Levenson, Roger, Hy.	*Bangor*	Σ N House
Lewis, William Wyman, Me.	*Oakland*	25 Grove Street
Little, Henry Phinney, Me.	*Augusta*	Φ Γ Δ House
Littlefield, Edward, Fm.	*Springvale*	Δ T Δ House
Littlehale, Robert Lowe, Es.	*Belmont, Mass.*	B Θ Π House
Litz, Margaret Jane, He.	*Limestone*	Balentine Hall
Look, Robert Harvey, Ed.	*Jonesboro*	25 Grove Street
Lord, Richard Newell, Zo.	*Brewer*	74 State Street, Brewer
Lothrop, Carolyn Frances, Eh.	*Auburn, R. I.*	Colvin Hall
Lull, David Thomas, Ch.	*Augusta*	Σ X House
Lunt, Richard Royal, Ch.Eng.	*Portland*	Φ K Σ House
Lynch, James Clifford, Eh.	*Bangor*	244 Birch Street, Bangor
McAlary, Francis James, Ce.	*Rockland*	K Σ House
McCausland, Dexter Linwood, Ee.	*Portland*	384 College Road
MacDonald, Donald Francis, Zo.	*Bangor*	263 State Street, Bangor
McEachern, Joseph Earl, Ce.	*Greenville Junction*	Σ A E House
MacLauchlan, Harold Edwyn, Ed.	*Addison*	134 College Road
MacLean, Charles Buck, Ce.	*Hartford, Conn.*	Λ X A House
McPherson, Harland Franklin, Ee.	*Gray*	25 Grove Street

Matchett, Wendell Eugene, Ee.	*Bangor*	28 Fern Street, Bangor
Mehann, Royal Orman, Ch.	*Old Town*	74 South Brunswick Street, Old Town
Meltzer, Sara, He.	*Auburn*	Balentine Hall
Merrill, Arlene, Gm.	*Bangor*	349 Center Street, Bangor
Merriman, Eleanor, Eh.	*Topsham*	South Hall
Meyer, Lester Jacob, Es.	*Brookline, Mass.*	T E Φ House
Mills, Frederick Otis, Es.	*Wellesley Hills, Mass.*	A T Ω House
Mintz, Arthur Grover, Es.	*Dorchester, Mass.*	T E Φ House
Mongovan, William David, Ch.A.	*Bangor*	4 Graham Avenue, Bangor
Moran, William Henry, Es.	*Brewer*	30 Blake Street, Brewer
Morrison, George Ira, Ed.	*Perry*	225 Main Street
Morrison, Robley Howe, Ce.	*Norway Lake*	Φ M Δ House
Morton, Raymond Ellsworth, Ed.	*Gorham*	1 Bridge Street
Morton, Richard Bell, Ed.	*Farmington*	Σ A E House
Morton, Rutledge, Me.	*Portland*	Λ X Λ House
Mullen, Burton Edward, Eh.	*White Valley, Mass.*	227 Main Street
Mullen, Joseph Thomas, Es.	*Bangor*	K Σ House
Murry, Gertrude Louise, Cl.	*Bangor*	Colvin Hall
Nash, Kenneth Bonney, En.	*Augusta*	K Σ House
Naugler, Reginald Whitfield, Ce.	*Topsham*	B Θ Π House
Naviski, Justin Joseph, Ee.	*Lewiston*	25 Grove Street
Nelson, Virginia Cobb, Cl.	*Guilford*	Balentine Hall
Newman, William Proctor, Jr., Ch.Eng.	*Bangor*	90 Royal Road, Bangor
Nickerson, Alvah Lewis, Ed.	*Damariscotta*	17 Margin Street
Northup, George Henry, Fy.	*Morristown, N. J.*	Φ M Δ House
Norwood, James Franklin, Ed.	*Southwest Harbor*	36 College Road
Nutt, Dorothy Parker, Py.	*West Rockport*	Balentine Hall
O'Connell, Edward William Carmel, Hy.	*North Bridgton*	Commons
O'Connell, Herschel Eugene, Es.	*Millinocket*	Θ X House
Page, Luther Alden, Me.	*Waterville*	Σ A E House
Palmer, Martha Virginia, He.	*Orono*	32 Myrtle Street
Parker, Carroll Curatia, Ch.Eng.	*North Livermore*	Φ M Δ House
Parker, Douglas Gray, Es.	*Lewiston*	B Θ Π House
Peaslee, Frank Danforth, Es.	*Portland*	Θ X House

Peavey, Anora Howard, He.	*Bangor*	128 Cumberland Street, Bangor
Peavey, Phyllis Catherine, He.	*Bangor*	128 Cumberland Street, Bangor
Perkins, Edward Arnold, Ed.	*Castine*	35 Grove Street
Perry, Mary Katherine, Ms.	*Orono*	39 Pine Street
Perry, Ruth Elizabeth, He.	*Orono*	39 Pine Street
Philbrook, Elizabeth, Es.	*Brookline, Mass.*	Balentine Hall
Pierce, David Purington, Cl.	*Guilford*	224 State Street, Bangor
Pierce, William Bela, Ce.	*Harpswell Center*	23 Spencer Street
Pike, Sarah Comfort, Ed.	*East Woodstock, Conn.*	Balentine Hall
Piper, Donald Albert, Ag.	*Stetson*	Farm Boarding House
Porter, John Langley, Es.	*Randolph, Mass.*	Φ Γ Δ House
Powell, Raymond Appleton, Dt.	*Carmel*	25 Grove Street
Prince, Alton Ernest, Fy.	*Brewer*	1 James Street, Brewer
Pruett, Kenneth Sherwood, Fy.	*Kittery*	Φ M Δ House
Ramirez, Xavier Hall, Zo.	*Bangor*	Σ A E House
Randall, Elmer Woodbury, Jr., Ee.	*Westbrook*	18 Oak Street
Raymond, Gordon Byron, Ee.	*Robinson's*	Φ K Σ House
Reed, Thomas Frank, Ch.Eng.	*Bangor*	31 Parkview Avenue, Bangor
Roberts, Arthur Leon, Fy.	*Kennebunk*	Λ X A House
Rollins, Donald Louis, Es.	*Bangor*	76 Summer Street, Bangor
Russell, David Alexander, Dt.	*North Jay*	Φ M Δ House
Saunders, Claire Curtis, Eh.	*Bluehill*	South Hall
Saunders, Ernest, Jr., Eh.	*Lewiston*	Σ A E House
Sawyer, Mildred Lucile, Gm.	*Bangor*	706 Hammond Street, Bangor
Schiro, Elizabeth Madeline, Zo.	*Bangor*	Colvin Hall
Scott, George William, Ee.	*Old Town*	K Σ House
Scott, Hilda Gertrude, Ed.	*Bath*	Colvin Hall
Sealey, John Clifford, Jr., Fm.	*Orono*	112 H. H. Hall
Seekins, Leslie Reed, Me.	*Richmond*	Stillwater
Sewall, Margaret Grazebrook, Eh.	*Old Town*	332 Stillwater Avenue, Old Town
Shiro, Samuel Herman, Zo.	*Old Town*	30 South Fourth Street, Old Town

Sidelinger, Dana Peabbles, Eh.	*South Portland*	Φ K Σ House
Simpson, Robert Waldo, Ch.Eng.	*Corinna*	Φ M Δ House
Slosberg, Gerald Arthur, Ch.	*Portland*	T E Φ House
Smith, Chester Williams, Fm.	*Fairfield*	406 H. H. Hall
Snow, Philip Porter, Ce.	*Biddeford Pool*	K Σ House
Sprague, Frederick Nelson, Ch.Eng.	*Bangor*	223 Maple Street, Bangor
Stairs, Erma Mae, Rl.	*Winterport*	36 College Road
Stanley, Rebecca Jean, Ms.	*Cranberry Isles*	20 Forest Avenue
Steinberg, Howard Gerard, Me.	*Brooklyn, N. Y.*	T E Φ House
Stevens, Warren Eldred, Ed.	*Skowhegan*	12 Pleasant Street
Stewart, Marion Irma, Eh.	*Augusta*	15 Pierce Street
Stinchfield, John Clark, Ch.	*Wayne*	Λ X A House
Sullivan, Bettina Frances, Dr.	*Orono*	South Hall
Sylvester, Asher Elwood, Me.	*Eustis*	108 Ohio Street, Bangor
Tanner, Alfreda Mae, Eh.	*South Portland*	Colvin Hall
Tarbell, Gridley Weatherbee, Ms.	*Bangor*	B Θ Π House
Taylor, Carleton Lewis, Jr., Ch.Eng.	*Litchfield*	Σ X House
Taylor, Paul Edward, Zo.	*Kittery*	384 College Road
Thompson, John Francis, Ch.	*Bangor*	State Hospital, Bangor
Thomsen, Leonard Alton, Ch.Eng.	*Portland*	Φ M Δ House
Tilton, Malcolm Louville, Fm.	*Burnham*	A Γ P House
Torrey, Glen Willard, Dt.	*Auburn*	A Γ P House
Treinor, Mary Reedy, He.	*Bangor*	96 Cedar Street, Bangor
Tropp, Charles Clarence, Fy.	*Orono*	28 Crosby Street
Verrill, Albert, Jr., Es.	*Cumberland Mills*	Λ X A House
Viner, Leo, Es.	*Bangor*	24 Oak Street
Wakefield, James Adelbert, Jr., Ce.	*Cumberland Center*	Φ K Σ House
Wakely, Eugene True, Rl.	*Topsham*	B Θ Π House
Walker, Victor Laffin, Ed.	*Woodfords*	B Θ Π House
Warren, Margaretta, Ht.	*Lincolnville*	Balentine Hall
Washington, Donald, Pa.	*Sanford*	Λ X A House
Webster, Edwin Parker, Ce.	*Auburn*	Σ A E House
Wellman, David Peirce, Me.	*Lewiston*	Λ X A House
Weston, Lowell Nathan, Es.	*Augusta*	B Θ Π House
White, David Fletcher, Es.	*Augusta*	Φ K Σ House
Wight, William Walton, Me.	*Bethel*	7 Kell Street
Wilcox, Granville Herbert, Hy.	*Mapleton*	Φ H K House
Winch, Fred Everett, Jr., Fy.	*Framingham, Mass.*	45 Oak Street

Woelfel, Charles, Fy.	*Peabody, Mass.*	45 Oak Street
Woodcock, Dorothy Lois, He.	*Ripley*	Balentine Hall
Woods, Eldredge Brown, Ce.	*Kittery*	Σ X House
Worcester, Alfred Small, Fy.	*Southwest Harbor*	45 Oak Street
Worthley, Carl Allen, Fm.	*Strong*	A Γ P House
Wright, Almira Powell, Ed.	*Gardiner, N. Y.*	33 Peters Street
Yeomans, Bernice Isabelle, Eh.	*Danforth*	15 Pierce Street

JUNIORS

Akeley, Robert Vinton, Ag.	*Presque Isle*	Φ H K House
Aliberti, Henry Joseph, Ce.	*Portland*	Θ X House
Allen, Robert Laurie, Zo.	*Rockland*	K Σ House
Alpert, Sylvia Elizabeth, Zo.	*Bangor*	Balentine Hall
Andersen, Henry Testman, Ge.	*Lyme, Conn.*	Δ T Δ House
Ashby, Hope Elizabeth, He.	*Caribou*	Balentine Hall
Ashworth, Mabelle Elizabeth, Hy.	*Orono*	88 North Main Street
Austin, Frances Elizabeth, Eh.	*Milbridge*	Colvin Hall
Averill, John Frank, Es.	*Fort Fairfield*	Σ N House
Avery, Marguerite Lillian, Py.	*Haverhill, Mass.*	Colvin Hall
Avery, Newell Albert, Eh.	*Bangor*	77 Parkview Avenue, Bangor
Bagley, Wendell Merton, Ge.	*Troy*	56 North Main Street
Barry, Manley Leroy, Zo.	*Orono*	80 Pine Street
Bates, Edwin Hill, Fm.	*Bath*	Φ M Δ House
Beisel, Ralph Anthony, Fy.	*Lehighton, Pa.*	Σ N House
Bell, Alton Leroy, Ge.	*Dennysville*	H. H. Hall
Bennett, John Francis, Jr., Ce.	*Portland*	Θ X House
Berry, Richard Nathaniel, Ge.	*Malden, Mass.*	B Θ Π House
Bertels, Barbara, Eh.	*Bangor*	Colvin Hall
Bessom, John Albert, Pa.	*Marblehead, Mass.*	Σ A E House
Bingle, Ethel Annette, Eh.	*Lynn, Mass.*	Colvin Hall
Bishop, Audrey Elaine, He.	*Caribou*	Balentine Hall
Bishop, William Freeman, Zo.	*Caribou*	Φ H K House
Black, Ruby Virginia, He.	*Woodfords*	Balentine Hall
Blake, Kenneth Stanford, Eh.	*Dexter*	A T Ω House
Borden, Bertha Caroline, Eh.	*South Portland*	North Hall
Bourgoin, Raoul Joseph, Ed.	*Frenchville*	90 Park Street
Bower, Philip Nichols, Me.	*Auburn*	Δ T Δ House

Boyle, Francis Waldemar, Eh.	*Old Town*	21 Summer Street, Old Town
Boynton, Evelyn Frances, He.	*Millinocket*	Colvin Hall
Braley, Richard Donald, Fm.	*Augusta*	134 College Road
Brarmann, Edward Francis, Ht.	*Englewood, N. J.*	A T Ω House
Brewer, Everett Leighton, Ch.	*Portland*	384 College Road
Brewster, Wendell Swanton, Zo.	*Dexter*	A T Ω House
Briggs, Richard Wilbur, Fm.	*Canton*	Δ T Δ House
Brown, Henry Maxson, Ee.	*Francestown, N. H.*	Σ X House
Brown, Irma Dunning, Ed.	*Old Town*	Balentine Hall
Brown, Paul Coolidge, Pa.	*Norway*	Φ M Δ House
Brown, Raynor Keith, Fy.	*Norway Lake*	Σ X House
Brown, Woodford Bradbury, Ee.	*Bangor*	Φ H K House
Bryant, Elwood Danton, Me.	*Bangor*	Φ Γ Δ House
Buck, Charles Barstow, Ph.	*Naples*	Σ N House
Buckminster, Lloyd Allen, Me.	*Sedgwick*	Δ T Δ House
Bunker, Katherine Cook, Py.	*Calais*	Balentine Hall
Burke, Paul Webber, Zo.	*Bangor*	State Street, Bangor
Burnett, Ruth Charlotte, Es.	*South Brewer*	447 South Main Street, South Brewer
Butterfield, Walter Lamont, Jr., Zo.	*Dexter*	A T Ω House
Cabeen, Robert Anderson, Ch.	*Provincetown, Mass.*	134 College Road
Calderwood, Louise Rand, Eh.	*Bath*	Balentine Hall
Calvert, Pauline, Ht.	*Orono*	20 Forest Avenue
Cameron, James Craig, Ch.Eng.	*Old Town*	156 North Fourth Street, Old Town
Carlisle, Norman Davis, Es.	*Bangor*	Φ Γ Δ House
Carr, Robert Venn, Ce.	*Bridgeport, Conn.*	A T Ω House
Carroll, Clifton Lewis, Fy.	*New Harbor*	Φ M Δ House
Casasa, Philip Thomas, Zo.	*Portland*	Θ X House
Chapman, William Follett, Fy.	*Portland*	Φ K Σ House
Childs, Edwin, Jr., Fm.	*Lewiston*	Φ M Δ House
Clark, George Thaxter, Hy.	*Orland*	8 Spring Street, Stillwater
Clark, William Frank, Ce.	*Sanford*	Δ T Δ House
Cleaves, Arthur Tobey, Me.	*Sangerville*	77 Mill Street
Cliff, Henrietta, He.	*Lincoln*	Balentine Hall
Coffin, Eugene, Fm.	*Harrington*	Stillwater

Cohen, Celia, Ch.A.	*Portland*	Balentine Hall
Colby, Barbara, Ed.	*South Paris*	Balentine Hall
Conner, Harry Brooks, Pa.	*Castine*	K Σ House
Corbett, Robert Francis, Dt.	*East Parsonsfield*	Farm Boarding House
Cotes, Kermit Rodney, Ch.Eng.	*Derby*	Φ H K House
Cotton, Edward Burnham, Ge.	*Houlton*	A T Ω House
Covell, Mildred Edith, He.	*Monmouth*	North Hall
Crabtree, Harry Lynwood, Eh.	*Ellsworth*	Σ A E House
Crabtree, Theodore Jesse, Fy.	*North Jay*	Φ K Σ House
Crockett, Leonard Emerson, Ee.	*Houlton*	Σ N House
Crouse, Margaret Eleanor, Eh.	*Crouseville*	380 College Road
Crowell, William Eleazor, Me.	*South Portland*	Λ X A House
Crowley, Elmer Francis, Me.	*Greenville*	Φ H K House
Crozier, Thomas Joseph Allen, Es.	*Portland*	Θ X House
Currie, Anna Ruth, Ms.	*Bangor*	75 Maple Street, Bangor
Cyr, Joseph Wilfred, Jr., Ch.	*Bath*	12 Park Street
Dalzell, Margaret Elizabeth, Ed.	*Hampden Highlands*	Hampden Highlands
Davenport, Constance Lucille, He.	*Winter Garden, Fla.*	Balentine Hall
Davis, Charlotte Irma, Eh.	*Milford*	Milford
Delano, Charles Herbert, Fm.	*Bucksport*	134 College Road
Dennis, Lawrence, Zo.	*Ellsworth*	24 Oak Street
DeWick, Robert Ellison, Dt.	*Wiscasset*	K Σ House
Dimitre, Phyllis Marie, Eh.	*Calais*	Balentine Hall
Dingwall, Douglas, Ce.	*Presque Isle*	Φ H K House
Dinneen, William Robert, Fy.	*Willimantic, Conn.*	56 Park Street
Dinsmore, Ernest Lowell, Es.	*Queens Village, N. Y.*	Λ X A House
Doe, Frank Eustace, Me.	*Concord, N. H.*	Λ X A House
Dow, James Frederick, Me.	*Houlton*	Φ Γ Δ House
Duff, Alan Dallas, Jr., Me.	*Augusta*	A T Ω House
Dunlevy, Raymond Knowles, Fy.	*Winthrop*	56 Park Street
Dunton, Mary Alice, Eh.	*Bath*	Balentine Hall
Edwards, George Everett, Es.	*Lincoln*	Φ M Δ House
Eldridge, Oliver Fuller, Es.	*North Adams, Mass.*	Φ H K House
Elmore, Emily Meribah, He.	*Augusta*	Balentine Hall
Elwell, Floyd Manard, Fm.	*East Wilton*	25 Grove Street

Evans, Thomas Bramlett, Fy.	*West End, N. J.*	18 Bennoch Street
Fay, Gardner Wilcox, Py.	*Needham, Mass.*	K Σ House
Felberg, Leonard. Me.	*Brooklyn, N. Y.*	T E Φ House
Findlen, George Louis, Fm.	*Fort Fairfield*	A Γ P House
Flint, Ernest Edgar, Ee.	*Roslindale, Mass.*	43 Main Street
Flynn, James Hammond, Ms.	*Machiasport*	Λ X A House
Flynn, Mary Belle, He.	*South Portland*	133 Main Street
Folger, Faith Gertrude, Py.	*Fryeburg*	Balentine Hall
Folley, Cranston Wesley, Me.	*South Portland*	382 College Road
Folley, Gayland Earl, Ht.	*South Portland*	382 College Road
Forman, William Nelson, Fm.	*Fitchburg, Mass.*	A Γ P House
Foster, Ernest Maxwell, Ch.Eng.	*Weld*	Φ H K House
Frazier, Madeline Louise, Hy.	*Norwood, Mass.*	Balentine Hall
Gaetz, Leonard Halley, Es.	*White Plains, N. Y.*	Σ N House
Gardner, Elizabeth, Eh.	*Orono*	133 Main Street
Golden, Evelyn Gertrude, Py.	*Bangor*	23 Pine Street
Golding, Carl Foulkes, Me.	*Milo*	K Σ House
Goldsmith, Jeannette, Ed.	*South Paris*	Balentine Hall
Gonya, Yvonne Marie, Rl.	*Millinocket*	Balentine Hall
Googins, Elva Elizabeth, Hy.	*Ellsworth*	Balentine Hall
Goudy, Edwin Horace, Eh.	*York Village*	24 Pierce Street
Grange, George Robert, Fm.	*Smyrna Mills*	Φ Γ Δ House
Grant, Gardner Coffin, Es.	*Cherryfield*	Σ X House
Greene, John Cornell, Fy.	*Pomfret, Conn.*	18 Forest Avenue
Hamlin, Lloyd Francis, Es.	*Hampden Highlands*	Hampden Highlands
Harrison, George Ogilvie, Es.	*Portland*	Σ X House
Haskell, William Verdelle, Ed.	*Presque Isle*	R.F.D. #7, Bangor
Hastings, Louise Eliza, Eh.	*Bangor*	41 Linden Street, Bangor
Hatfield, Lloyd Douglas, Ed.	*South Brewer*	R.F.D. #8, South Brewer
Hawkes, Ralph Wilson, Jr., Es.	*York Village*	Σ X House
Heald, Almon Francis, Ag.	*Union*	Main Road
Hebel, Carl Gustave, Me.	*Brewer*	178 Parker Street, Brewer
Hinckley, Jerold Maxwell, Py.	*Bluehill*	Σ X House
Hitchings, George Philip, Es.	*Orono*	2 Summer Street
Homstead, Robert Howard, Ch.	*Orono*	5A Mill Street
Hooper, William Howard, Fy.	*Biddeford*	Λ X A House

Hopkins, Bernice Willard, Ms.	*Belfast*	Balentine Hall
Horne, Allan Edgerly, Es.	*Milo*	K Σ House
Houghton, Thomas Edward, Jr., Ag.	*Fort Fairfield*	Σ N House
Houston, George Laurence, Fy.	*Bangor*	A Γ P House
Hunnewell, William French, Pa.	*Madison*	Σ A E House
Hutchings, Leslie Morton, Dt.	*Portland*	302 H. H. Hall
Hutchinson, Dorothy Beatrice, He.	*Old Town*	North Hall
Jackman, William Lounsbury, Eh.	*Orono*	College Road
Jackson, Nolan Berry, Fm.	*Norway*	Φ M Δ House
Jewell, Frances Elizabeth, He.	*Easton*	20 Forest Avenue
Jones, Beatrice Florence, He.	*Orono*	164 College Road
Jones, Robert Carroll, An.	*Wales*	25 Myrtle Street
Jude, Judson Austin, Pa.	*Ellsworth Falls*	K Σ House
Judkins, Fred Sanborn, Dh.	*Upton*	A Γ P House
Keegan, Clarence Kermit, Fm.	*Robinson's*	Φ H K House
Kern, Bruno Michael, Eh.	*South Orange, N. J.*	1 Bridge Street
Kierstead, William Irving, Ch.Eng.	*Rockland, Mass.*	Δ T Δ House
Kilgour, Donald Campbell, Me.	*Lovell*	Φ K Σ House
Kimball, Ruth, Eh.	*Old Town*	2 Gilman Falls Avenue, Old Town
King, Frances Edith, Py.	*Bethel*	Colvin Hall
Koran, Adolph Adam, Gm.	*Houlton*	170 Hancock Street, Bangor
Lakin, John Robert, Ee.	*New Harbor*	Φ M Δ House
Lancaster, Barbara Alice, Rl.	*Old Town*	154 Stillwater Avenue, Old Town
Lancaster, Vaughan Handy, Fy.	*Brownville*	K Σ House
Landers, Albert Schoppee, 3rd, Fy.	*Bangor*	21 Parkview Avenue, Bangor
Lane, Stuart Pinkham, Fy.	*Lincoln*	Φ M Δ House
Larsen, Marion Frieda, Es.	*Cumberland Center*	South Hall
Laverty, Robert Edward, Fy.	*Newton, Mass.*	Λ X A House
Leathers, Kenneth Hewes, Py.	*Kennebunkport*	402 H. H. Hall
Leavitt, Charles Ralph, Ed.	*West Enfield*	Φ K Σ House
Lennox, Donald Joseph, Ce.	*Bath*	Σ N House
Lewis, Ruth Edith, Py.	*Springfield*	Colvin Hall
Litchfield, Leonard Percy, Me.	*Bath*	Φ Γ Δ House

Littlefield, Regina Carol, Py.	*Portland*	North Hall
Lloyd, Raymond Arthur, Me.	*Portland*	66 Park Street
Loveless, Robert Morrill, Me.	*Melrose, Mass.*	202 H. H. Hall
Lutz, Flora Hermion, Cl.	*Old Town*	45 South Fourth Street, Old Town
McDougall, John Robert, Ee.	*Bangor*	442 Hancock Street, Bangor
MacKenzie, Jeannette Frances, Es.	*New Haven, Conn.*	South Hall
MacKinnon, Marjorie, Cl.	*Topsham*	Balentine Hall
McKusick, Robert Elwin, Dh.	*Guilford*	Α Γ Ρ House
McLaughlin, Gustavus Abbott, Dt.	*Dyer Brook*	Φ Η Κ House
McLellan, George William, Ps.	*Old Town*	144 South Brunswick Street, Old Town
McMullen, Alice Mary, Es.	*Old Town*	240 South Main Street, Old Town
MacNaughton, Donald Wesley, Es.	*Brunswick*	Φ Γ Δ House
MacWhinnie, Rita Ilene, Ed.	*Orono*	3 Park Street
Mack, Everett Belknap, Ee.	*Bangor*	359 State Street, Bangor
Mader, George Holland, Me.	*Beverly, Mass.*	Φ Γ Δ House
Marcionette, Robert Jerome, Es.	*Parsonsfield*	Β Θ Π House
Martin, Wesley Maxwell, Ce.	*Vineyard Haven, Mass.*	Φ Μ Δ House
Mayo, Ronald Ira, Ce.	*Brewer*	137 Wilson Street, Brewer
Merrill, Edward Osgood, Ch.Eng.	*Orono*	178 Main Street
Messeck, William Henry, Jr., Fy.	*Haverhill, Mass.*	Φ Μ Δ House
Miller, Charlotte Patterson, He.	*Old Town*	50 Veazie Street, Old Town
Miller, John Fessenden, Zo.	*Camden*	Σ Α Ε House
Miniutti, John Joseph, Me.	*North Berwick*	212 H. H. Hall
Morgan, Paul Winthrop, Ch.	*Thomaston*	Kell Street
Morgan, Russell Lermond, Ch.	*Thomaston*	Kell Street
Morrison, James Bryan, Jr., Ch.Eng.	*Bradford Center*	Φ Κ Σ House
Mosher, Howard Cornell, Ch.Eng.	*North Dartmouth, Mass.*	12 Pleasant Street
Mullaney, Roderick Edward, Jr., Ce.	*Bangor*	72 Garland Street, Bangor
Murphy, Leo Joseph, Py.	*Eastport*	12 Park Street

Murphy, Reginald Frey, Me.	*Bangor*	31 Cottage Street, Bangor
Murray, John Joseph, Eh.	*Bath*	K Σ House
Naylor, Josie Victoria, He.	*Cumberland Mills*	North Hall
Norman, Ralph Linwood, Ce.	*South Berwick*	Σ N House
Oakes, Maurice Andrew, Zo.	*West Enfield*	24 Oak Street
O'Connor, James Francis, Es.	*Augusta*	6 Mill Street
Ohler, Robert Loring, Zo.	*Newton Centre, Mass.*	Λ X A House
Olsen, Irene Annie, Hy.	*Patten*	Balentine Hall
Page, David Donnell, Es.	*Fort Kent*	Φ Γ Δ House
Palmer, Ralph Simon, Zo.	*Brunswick*	60 Park Street
Parsons, Frederick Webster, Es.	*West Medford, Mass.*	A T Ω House
Parsons, Shirley Robinson, Pa.	*South Paris*	Φ M Δ House
Peabody, Arland Wentworth, Ee.	*Exeter*	Σ X House
Perkins, Bernard Gordon, Ms.	*Orono*	80 North Main Street
Perkins, Irving Joseph, Es.	*Portland*	12 Park Street
Pfuntner, Richard Alonzo, Ee.	*Guilford*	35 Grove Street
Phillips, Phyllis Richert, Ms.	*East Orange, N. J.*	Colvin Hall
Poulsen, Andrew Waldemar, Fy.	*Hudson Heights, N. J.*	148 Main Street
Proctor, Morris Dewing, Me.	*Portland*	B Θ Π House
Rand, Beverly Patterson, Fm.	*Sherman Mills*	Φ H K House
Rand, Edwin Holmes, Ms.	*Unity*	25 Grove Street
Redman, Edward Homer, Pl.	*Bangor*	42 Elizabeth Avenue, Bangor
Rich, Avery Edmund, Ag.	*Charleston*	86 North Fourth Street, Old Town
Rich, Lucinda Ewer, He.	*Charleston*	25 Grove Street
Robinson, Benjamin Gale, Me.	*Longmeadow, Mass.*	33 Main Street
Roderick, Burleigh Houston, Ed.	*Augusta*	207 H. H. Hall
Rokes, Nelson Ulmer, Ed.	*Rockland*	Δ T Δ House
Rowlands, Willett, Fy.	*Needham, Mass.*	K Σ House
Russell, Sargent, Fm.	*North Leeds*	83 Park Street
Salisbury, Robert Holmes, Hy.	*Ellsworth*	A T Ω House
Sanders, Naida Barrows, Eh.	*Portland*	Balentine Hall
Saunders, Wesleyan Bell, Zo.	*New York, N. Y.*	33 Bennoch Street

Scamman, Lucian Hollis, By.	*Portland*	Φ M Δ House
Severy, Lawrence Arthur, Me.	*Marblehead, Mass.*	Σ A E House
Shannon, Florence Catherine, Cl.	*Bangor*	779 Essex Street, Bangor
Shaw, Howard Earle, Jr., Ce.	*Portland*	Φ H K House
Shaw, Leonard Frederick, Fy.	*Newton Centre, Mass.*	Λ X Λ House
Sibley, Charles Byron, Ag.	*Stillwater*	Stillwater
Silsby, Edward Homer, Fy.	*Bangor*	K Σ House
Simmons, Martha, Ed.	*Sargentville*	South Hall
Smith, Lester Hurlin, Dh.	*Buxton*	A Γ P House
Smith, Louis, Zo.	*Portland*	T E Φ House
Smith, Roger William, Zo.	*Presque Isle*	Φ H K House
Smith, Winslow Baker, Ge.	*Brewer*	32 Grove Street, Brewer
Snare, Josephine Weick, Cl.	*Hampden Highlands*	Balentine Hall
Snow, Margaret, Py.	*Portland*	Balentine Hall
Spear, Richard Marcus, Me.	*Thomaston*	Δ T Δ House
Stagg, Howard Josiah, Es.	*Syracuse, N. Y.*	Φ Γ Δ House
Staples, Richard Byron, Ce.	*Gardiner*	Λ X Λ House
Stevens, Carol Elizabeth, Eh.	*Bath*	Balentine Hall
Stewart, Alice Rose, Hy.	*Brunswick*	Balentine Hall
Stillman, Jane, Py.	*Northeast Harbor*	Balentine Hall
Stillman, William Phillips, Pa.	*Greene, R. I.*	Λ X Λ House
Stinchfield, Charles Howard, Ch.	*Wayne*	Λ X Λ House
Story, Elizabeth Marion, Es.	*Pigeon Cove, Mass.*	Colvin Hall
Stoughton, Gerald Earle, Ge.	*Orono*	84 College Road
Stuart, Edward, Jr., Fy.	*Rockport, Mass.*	Φ H K House
Sumner, Merton Rogers, Me.	*Rockland*	Θ X House
Sylvester, Mervale Wesley, Fm.	*Mars Hill*	Φ H K House
Tewksbury, Edwin Fellows, Pl.	*Orrington*	Orrington
Thayer, Arthur Linwood, Jr., Me.	*Bangor*	13 Hayward Street, Bangor
Thayer, Margaret Llewelyn, He.	*Bangor*	13 Hayward Street, Bangor
Thomas, Orin Ansel, Jr., Fy.	*Rutland, Vt.*	K Σ House
Thompson, Dana, Fm.	*Presque Isle*	Φ H K House
Titcomb, Gertrude Althea, He.	*Dexter*	Balentine Hall
Titcomb, Helen Ernestine, Zo.	*New Gloucester*	Colvin Hall
Treat, Charles Forrest, Eh.	*Orono*	77 Mill Street
Trimble, George Richardson, Jr., Fy.	*Stowe*	148 Main Street

Tripp, Arnold Riggs, Ch.Eng.	*Gray*	Δ T Δ House
True, Robert Moody, Fy.	*Newburyport, Mass.*	K Σ House
Verzoni, Ralph Peter, Fy.	*Waterville*	18 Forest Avenue
Weatherbee, George Bradford, Jr., Eh.	*Hampden Highlands*	10 Oak Street, Old Town
Webb, Harold Lewis, Fm.	*Augusta*	Φ K Σ House
Wentworth, Ralph Eugene, Cl.	*Bangor*	30 Linden Street, Bangor
Wescott, Emery Newhall, Ch.Eng.	*Portland*	Λ X A House
Whiting, William Lawrence, Ms.	*Portland*	K Σ House
Widrow, Lois Frances, Py.	*Portland*	12 Main Street
Willett, Raymond Stanley, Ms.	*Stetson*	35 Hill Street
Williams, George Seth, Jr., Me.	*Augusta*	B Θ Π House
Wilson, Newell Johnson, Me.	*Bath*	Φ Γ Δ House
Wing, Hope Eleanor, Rl.	*Fairfield*	Colvin Hall
Wood, Edward Parsons, Ge.	*North Edgecomb*	Δ T Δ House
Wood, Margaret Crosskill, Ed.	*Presque Isle*	Colvin Hall
Woodbury, Harold Mace, Fm.	*Portland*	Φ K Σ House
Woods, Nancy Cushing, Eh.	*Ellsworth*	Colvin Hall
Woods, Paul Campbell, Es.	*Newton Centre, Mass.*	Δ T Δ House
Wooster, Helen Elizabeth, He.	*Old Town*	North Hall
Young, Harland Avery, Ce.	*Matinicus*	Φ M Δ House
Young, Harold Edle, Fy.	*Miami, Fla.*	45 Oak Street
Young, Marjorie Louise, Es.	*South Walpole, Mass.*	Balentine Hall

SOPHOMORES

Abbott, Edmund Livingston, Me.	*Auburn*	Σ A E House
Adams, Donald Sanford, Ce.	*Watertown, Mass.*	Σ N House
Adams, Ernest Eugene, Ch.Eng.	*South Brewer*	412 South Main Street, South Brewer
Additon, Elwood Prince, Ch.	*Rumford*	Φ Γ Δ House
Adriance, Evelyn Buck, Arts	*Maplewood, N. J.*	South Hall
Albert, Roland Laurier, Ce.	*Lewiston*	Σ A E House

Allen, Hervey Clifford, Arts	*Rockland*	K Σ House
Ames, Sidney Ernst, Arts	*Orono*	22 Mill Street
Andrews, Ernest Frederick, Pa.	*Ticonderoga, N. Y.*	Φ Γ Δ House
Andrews, Ernestine Elizabeth, Arts	*Bingham*	South Hall
Armstrong, James Oliver, Jr., Fy.	*Norwich, Conn.*	Φ M Δ House
Ashmore, James Newton, Fy.	*Ellsworth*	148 College Road
Bailey, Charles Herbert, Fy.	*Lincoln*	Φ M Δ House
Baker, Robert Loveland, Arts	*Cape Cottage*	Φ Γ Δ House
Baker, Vance Durgin, Me.	*The Forks*	K Σ House
Barker, Richard Norton, Arts	*Bucksport*	Bucksport
Barnard, John Everett, Dh.	*Kittery*	A Γ P House
Barnes, Ronald Eugene, Ag.	*Fort Fairfield*	Φ H K House
Bartlett, Russell Doe, Fy.	*Rockland*	K Σ House
Bates, Keith Malcolm, Fm.	*Groton, Mass.*	Σ N House
Bean, James Lyle, Fy.	*Easton*	Φ K Σ House
Beck, Fred Nelson, Arts	*Washburn*	A T Ω House
Benjamin, Marguerite Mary, He.	*Mars Hill*	Balentine Hall
Berkowitz, Leonard Irving, Arts	*Mattapan, Mass.*	T E Φ House
Best, Douglas Raymond, Fy.	*St. Albans, Vt.*	Φ M Δ House
Beverage, Ray Jasper, Me.	*North Haven*	Σ X House
Billings, Hester Anita, Arts	*Bangor*	50 Smith Street, Bangor
Billings, Paul Clayton, Ch.Eng.	*Stonington*	A T Ω House
Bither, Richard, Arts	*Dexter*	A T Ω House
Blanchard, Bert Fernald, Ce.	*Farmington*	Σ A E House
Bottcher, Alfred Oscar, Ce.	*Worcester, Mass.*	Φ Γ Δ House
Bouchard, Roger Gerald, Arts	*Caribou*	Δ T Δ House
Boyer, Azalea Ladner, Arts	*Kittery Point*	Balentine Hall
Boyer, Richard Porter, Jr., Ee.	*Newton, Mass.*	384 College Road
Boynton, Robert Stephens, Ee.	*Norway*	A T Ω House
Bradbury, Francis Wilson, Arts	*Brewer*	224 Wilson Street, Brewer
Braidy, Bernice Estelle, Arts	*Bangor*	Colvin Hall
Britt, Richard Horn, Ce.	*Rockland*	College Road
Brookes, Leslie, Arts	*Rockville, Conn.*	Σ X House
Brown, Barbara True, Eh.	*Bath*	Balentine Hall
Brown, Gilbert Merrill, Dh.	*Gloucester, Mass.*	Δ T Δ House
Brown, Lloyd Fremont, Ce.	*Augusta*	Δ T Δ House
Bruce, Bettina Evelyn, He.	*Nahant, Mass.*	Colvin Hall
Bryant, Stuart Graham, Me.	*Newcastle*	Δ T Δ House
Burgess, Richard Furniss, Fy.	*Meriden, Conn.*	A T Ω House
Burke, Franklin Martin, Fy.	*Bangor*	State Street, Bangor

Butler, Donald Walton, Arts	*Portland*	B Θ Π House
Butler, Ralph William, Ce.	*South Berwick*	Σ N House
Cain, Charles Yetts, Ch.Eng.	*Portland*	K Σ House
Calderwood, George Curtis, Arts	*Roxbury, Mass.*	B Θ Π House
Cameron, David, Arts	*Gloucester, Mass.*	Φ H K House
Carswell, David Flockhart, Ht.	*Bar Harbor*	Horticulture Greenhouse
Carter, Nelson Bradford, Ch.Eng.	*Brewer*	12 Brimmer Street, Brewer
Cary, Hugh Rudolph, Arts	*Newport*	A T Ω House
Chase, Martha Marden, Ed.	*South Brewer*	Colvin Hall
Chatterton, Alfred Francis, Arts	*Saugus, Mass.*	Θ X House
Chute, Gordon Libby, Fy.	*Harrison*	Σ A E House
Clark, Albert Lewis, Fy.	*Camden*	Φ K Σ House
Clark, John Tolman, Me.	*Portland*	Φ Γ Δ House
Clement, June Vinette, He.	*Wellesley, Mass.*	Balentine Hall
Clifford, Ralph Edward, Fy.	*Dexter*	47 Mill Street
Clough, Susie Betty, He.	*Lewiston*	Balentine Hall
Cobb, Lucy Margaret, He.	*Belfast*	Balentine Hall
Cohen, Sylvia Esther, Arts	*Bangor*	50 East Summer Street, Bangor
Collins, Alice Gertrude, He.	*Lewiston*	Colvin Hall
Conley, Olive Elizabeth, Arts	*Ellsworth*	R.F.D. #7, Bangor
Costrell, Edwin Solomon, Arts	*Bangor*	233 Parkview Avenue, Bangor
Costrell, Rose Lilian, Arts	*Bangor*	233 Parkview Avenue, Bangor
Cotting, Duncan, Arts	*Newton, Mass.*	B Θ Π House
Crafts, Howard Jefferson, Ch.Eng.	*Portland*	Λ X A House
Cramer, Francis Leroy, Ce.	*Bristol*	Λ X A House
Crocker, Frederick Leon, Fm.	*Old Town*	18 Bradbury Street, Old Town
Crocker, Richard Foster, Jr., Ed.	*Fort Kent*	A T Ω House
Crockett, Maurice Harold, Arts	*Stonington*	T E Φ House
Crouse, Arthur Leroy, Fm.	*Crouseville*	Φ H K House
Currier, Ethelmae, He.	*Caribou*	Balentine Hall
Curtis, Grace Roger, Arts	*Danforth*	Balentine Hall
Cushman, Maurice Edward, Me.	*Portland*	24 North Park Street, Bangor
Cushman, Paul Dinsmore, Arts	*Ellsworth*	24 Oak Street

Dauphinee, Mildred Evelyn, Arts	*Bangor*	60 Sixth Street, Bangor
Dean, Buel David, Pa.	*Pittsfield, Mass.*	Φ Γ Δ House
DeCoster, James Robert, Ch.Eng	*South Portland*	Φ M Δ House
Deering, Mary Lowell, He.	*Orono*	160 College Road
DeLong, John Barker, Arts	*Brewer*	466 North Main Street, Brewer
Denning, Lawrence Francis, Ph.	*Orono*	16 Pine Street
Diehl, Helene Winifred, Arts	*Portland*	South Hall
Donagan, Ernest Hall, By.	*West Medford, Mass.*	Φ M Δ House
Doubleday, Edward Sherburne, Fy.	*St. Albans, Vt.*	Φ M Δ House
Douglass, John Quinn, Arts	*Hallowell*	134 College Road
Doyle, Edward Houlton, Jr., Arts	*Caribou*	Θ X House
Drummond, Elizabeth Beverly, Arts	*Orono*	Colvin Hall
Duncan, Maurice Lynn, Arts	*Rockland*	B Θ Π House
Dunlap, Stanley Thomas, Arts	*Portland*	Φ Γ Δ House
Dyer, Allen Lyford, Ee.	*Camden*	Δ T Δ House
Edison, Harold, Ch.Eng.	*Brooklyn, N. Y.*	12 Pleasant Street
Edwards, Lewis William, Ce.	*South Portland*	Λ X Λ House
Edwards, Richard Stephen, Fy.	*Malden, Mass.*	Λ T Ω House
Eldridge, Merrill, Pa.	*Bangor*	26 Plaisted Street, Bangor
Ellingson, Albert Martin, Me.	*Milo*	Φ H K House
Elliott, Roderick Rogers, Fm.	*Montreal, West, Quebec*	Φ K Σ House
Ernst, Morris Alonzo, Ce.	*York Village*	54 Forest Avenue, Bangor
Erskine, Chauncey Lee, An.	*Waterville*	Δ T Δ House
Fairfield, Loran Radford, Me.	*South Portland*	Θ X House
Fellows, Frank, Fm.	*Bangor*	395 Union Street, Bangor
Fellows, Nathan Warren, Jr., Fy.	*Scarsdale, N. Y.*	Φ K Σ House
Felt, Lester Albert, Dh.	*Bryant Pond*	25 Grove Street
Fish, Lincoln, Arts	*Concord, Mass.*	K Σ House
Fitch, Karl Albert, An.	*Orono*	32 College Road
Fitz, Glendon Chapin, Me.	*Kenduskeag*	Kenduskeag
Fogg, Carleton Thayer, Ch.Eng.	*Yarmouth*	Φ K Σ House
Ford, Mary Ella, Arts	*Brooklin*	Balentine Hall
Ford, William George, Pa.	*South Hadley Falls, Mass.*	12 Park Street
Forde, Madison Shepherd, Arts	*Kingston, N. Y.*	47 Mill Street
Forrestall, Howard Warren, Arts	*Portland*	Φ K Σ House

Fortier, Francis Brett, Fy.	*Dexter*	45 Peters Street
Fowler, George Turner, Ag.	*Fort Fairfield*	Φ H K House
Fox, Basil Sterling, Fm.	*Washburn*	Φ H K House
Frost, John Eldridge, Arts	*York Village*	36 College Road
Frost, Mary Eldridge, He.	*York Village*	Balentine Hall
Füger, Albert Stanley Tennant, Jr., Arts	*Cape Elizabeth*	Φ Γ Δ House
Fuller, Robert Lendall, Arts	*Portland*	Φ K Σ House
Gerry, Richard Woodman, Ph.	*Lewiston*	Φ M Δ House
Getchell, Amasa Stanley, Ch.	*Bangor*	267 Forest Avenue, Bangor
Getchell, Frances Louise, Arts	*Bar Harbor*	Colvin Hall
Getchell, Ralph, Jr., Ee.	*Brewer*	294 South Main Street, Brewer
Gilbert, Hamlin Miller, Arts	*Hartford, Conn.*	Σ A E House
Ginsberg, Sewall Jerome, Arts	*Old Town*	144 Main Street, Old Town
Gleason, Wallace Fred, Jr., Arts	*South Portland*	Λ X A House
Glover, William Albert, Jr., Ce.	*Rockland*	Θ X House
Goodwin, Howard Mayo, Ge.	*Brewer*	119 Parker Street, Brewer
Gowell, John Robert, Me.	*South Portland*	Φ K Σ House
Graham, Lester Charles, Arts	*Brewer*	11 Brimmer Street, Brewer
Grant, Douglas Creighton, Fy.	*Medford, Mass.*	Σ N House
Gray, Earle Edwin, An.	*Anson*	A Γ P House
Greenlaw, Donald Olive, Arts	*Jay*	Φ M Δ House
Greenlaw, Joseph Milton, Ce.	*Camden*	Σ A E House
Gregory, Philip Lawrence, Ce.	*North Weymouth, Mass.*	Σ A E House
Grodinsky, Harold Morris, Arts	*Bangor*	187 Ohio Street, Bangor
Gruginskis, Elizabeth Martha, He.	*Rumford*	South Hall
Guiou, Iris Louise, He.	*Presque Isle*	Colvin Hall
Haggett, John Daniel, Ch.Eng.	*North Edgecomb*	Δ T Δ House
Ham, Alton Sinclair, Ce.	*Monroe*	College Road
Hamilton, Bernice Mae, Arts	*North Uxbridge, Mass.*	Colvin Hall
Hanscom, Carolyn Perkins, Arts	*Ogunquit*	Colvin Hall
Harding, Theodore Parker, Arts	*Boston, Mass.*	A T Ω House
Hardison, Waldo Flanders, Fm.	*Caribou*	Δ T Δ House
Hart, Gerald Farrington, Ee.	*Brewer*	R. 5, Brewer

Hart, Ida Mae, Arts	*Milbridge*	6 Pond Street
Harvey, Robert Willis, Me.	*New Haven, Conn.*	Δ T Δ House
Hatch, Marion Estelle, Arts	*Melrose, Mass.*	Colvin Hall
Hatt, Raymond Harold, Me.	*Patten*	26 Peters Street
Havener, Charles Edward, Ee.	*Rockland*	Σ X House
Hawkes, Mary Adelaide, Arts	*York Village*	Balentine Hall
Hayes, Richard Edmund, Ce.	*Lewiston*	B Θ Π House
Healy, Richard Wyman, Arts	*Augusta*	Λ X A House
Heistad, Solveig Elizabeth, Arts	*Rockport*	South Hall
Hemingway, Robert Edward, Ee.	*Presque Isle*	Φ H K House
Hendrickson, Mary Anne, Arts	*Copper Creek, Ariz.*	University Place
Hennings, Nancy, Arts	*Portland*	South Hall
Hersey, Alvin Kingsbury, Dh.	*North Waterford*	Σ A E House
Higgins, Orin Jackson, Arts	*Mapleton*	Φ H K House
Hight, Diana Elizabeth, Arts	*Skowhegan*	South Hall
Hill, George Dourian, Ch.Eng.	*Waterville*	Σ A E House
Hilton, Miriam Ada, He.	*Mercer*	Balentine Hall
Hinkley, Margaret Emerson, Arts	*Brewer*	Balentine Hall
Hodges, Arthur Webster, Jr., Arts	*Newton Centre, Mass.*	Λ X A House
Hodgkins, Beatrice Louise, He.	*Bar Harbor*	Colvin Hall
Hodgkins, Ellen Bailey, Arts	*Bath*	South Hall
Holman, Blanche Bertha, Arts	*Norwood, Mass.*	Balentine Hall
Holt, Erastus Eugene, Ee.	*Portland*	College Road
Hooper, John Francis, Ch.	*Old Town*	154 Brunswick Street, Old Town
Horblit, David Mordecai, Arts	*Brookline, Mass.*	12 Park Street
Hubbard, Ira Chase, Fy.	*South Gardiner*	43 Main Street
Hunt, William Kazutow, Fy.	*Bangor*	224 State Street, Bangor
Hunter, James Harold, Pa.	*West Roxbury, Mass.*	Θ X House
Huntoon, Charles Rounds, Jr., Pa.	*Rumford*	Δ T Δ House
Hurwitz, Sidney Nathaniel, Ce.	*Roxbury, Mass.*	T E Φ House
Hussey, Robert Sylvanus, Arts	*Bangor*	11 Pond Street
Hussey, William Penn, Ch.Eng.	*Old Town*	290 South Main Street, Old Town
Inglee, Lewis, Jr., Ph.	*Amityville, Long Island, N. Y.*	A Γ P House
Ireland, Richard Maxwell, Ee.	*Biddeford*	Φ K Σ House

Jones, Chester Warren, Ce.	*Canaan*	25 Grove Street
Jones, Francis Clough, Fm.	*Orono*	164 College Road
Kelley, Donald Palmer, Ee.	*South Portland*	Φ K Σ House
Kenneson, Harvey Carl, Ee.	*Portland*	Σ N House
Kent, Jean Stafford, Arts	*Bangor*	16 Sixth Street, Bangor
Kimball, Bartlett, Ee.	*Wollaston, Mass.*	B Θ Π House
Laing, Edmond Taylor, Arts	*Bangor*	69 Harthorn Ave., Bangor
Lane, Arnold Sterling, Fy.	*Reading, Mass.*	A T Ω House
Laputz, Alexander Harry, Fy.	*New Haven, Conn.*	Θ X House
Larrabee, Edward Whittum, Me.	*Belfast*	Φ Γ Δ House
Laurin, Irving Jefferson, Arts	*Lowell, Mass.*	Σ A E House
Leavitt, Earl Edward, Fm.	*Wytopitlock*	Φ M Δ House
Lees, Harry Thomas, Arts	*Manchester, Mass.*	K Σ House
Leighton, Mary Elizabeth, Arts	*Alfred*	Balentine Hall
Lerner, Alice Mary, Arts	*Melrose, Mass.*	31 Forest Avenue
Levitan, Leon Bernard, Arts	*Brookline, Mass.*	T E Φ House
Lewis, Arolyn Meredyth, He.	*Newport*	Colvin Hall
Lewis, Helen Baker, Arts	*Bar Harbor*	Balentine Hall
Lewis, Joseph Henry, Ee.	*Springfield*	87 Park Street
Lieberman, Leo, Arts	*Bangor*	49 Parkview Avenue, Bangor
Lief, Irving Harold, Arts	*Dorchester, Mass.*	T E Φ House
Lippa, Elmer Nathan, Arts	*Peabody, Mass.*	T E Φ House
Littlefield, Betty Holmes, He.	*Portland*	Balentine Hall
Littlefield, Sarah Wells, He.	*Brewer*	Colvin Hall
Long, Carolyn Martha, Arts	*Bangor*	213 Elm Street, Bangor
Lord, Dwight Elmer, Ee.	*Camden*	Φ K Σ House
Lord, Moses Stuart, Ch.Eng.	*Old Town*	238 Main Street, Old Town
Lowe, Charles Herman, Fy.	*Camden*	Φ K Σ House
Lowe, Henry Francis, Fm.	*Brooks*	113 Jackson Street, Bangor
Lueders, Norma Caecelia, He.	*Marblehead, Mass.*	Balentine Hall
Lull, Sumner Hale, Ee.	*Augusta*	87 Park Street
Lynch, Thomas Elwin, Ee.	*South Portland*	378 College Road
Lynds, Marjorie Clara, Arts	*Meredith, N. H.*	Colvin Hall
McDonough, Martin Joseph, Jr., Arts	*Bangor*	96 Otis Street, Bangor
McDonough, William Thomas, Ch.Eng.	*Portland*	Θ X House
McGinley, Raymond Powell, Pa.	*Danvers, Mass.*	Φ Γ Δ House

McGraves, Donald Esty, Arts	*Brunswick*	60 Park Street
McKeen, Harold Havener, Arts	*Bangor*	257 Center Street, Bangor
McKenzie, Charles Kennedy, Arts	*Augusta*	B Θ Π House
Markle, Prentiss Brown, Arts	*Old Town*	17 North Fourth Street, Old Town
Marr, James Archibald, Fm.	*Millinocket*	Φ H K House
Mayhew, Mabel Eleanor, Arts	*Old Town*	42 Stillwater Avenue, Old Town
Mayo, Donald Babson, Fy.	*Rumford, R. I.*	Φ K Σ House
Meade, Arland Ritchie, Dh.	*Auburn*	A Γ P House
Merrill, Wilford Jewett, Fy.	*Solon*	A T Ω House
Millett, Althea Hope, He.	*Norway*	Balentine Hall
Minott, Helen Claire, He.	*Bath*	Balentine Hall
Mitchell, Anna Jean, Arts	*Bar Harbor*	South Hall
Mitchell, Elizabeth Helen, He.	*Oakland*	15 Pierce Street
Moore, Muriel Virginia, He.	*Bar Harbor*	South Hall
Morse, Henry Irwin, Bc.	*Kittery*	25 Grove Street
Mosher, Dorothy Conrey, He.	*Bangor*	89 Royal Road, Bangor
Mosher, Glenn Harold, Ag.	*North Jay*	90 Forest Avenue
Moulton, Arthur Charles, Me.	*West Newfield*	Σ N House
Murray, William Lawrence, Pa.	*Livermore Falls*	Θ X House
Nason, Frances Mary, Arts	*Hampden*	15 Park Street
Neal, Oliver Meader, Jr., Bt.	*North Berwick*	Σ A E House
Ness, Norman Renfrew, Fm.	*Auburn*	134 College Road
Newcomb, Hugh Ross, Fy.	*Newton Centre, Mass.*	A X A House
Nightingale, Philip Simeon, Fm.	*Fort Fairfield*	Φ H K House
Norris, Russell Taplin, Fy.	*Newburyport, Mass.*	A T Ω House
Oliver, John Wesley, Ag.	*West Paris*	Φ M Δ House
Orr, Dana Rowell, Arts	*Wilton*	A T Ω House
Osgood, Carl Chapin, Me.	*Ellsworth*	Σ X House
Owens, Albert Llewellyn, Fm.	*Portland*	Φ M Δ House
Owens, Thomas William, Fm.	*Portland*	Φ H K House
Page, Leland Vernon, Ce.	*Easton*	Φ H K House
Parker, Robert George, Arts	*Sherman Mills*	Φ M Δ House
Parlin, Lillian Maxine, Arts	*New Sharon*	Colvin Hall

Pearlmutter, William Herbert, Arts	*Roxbury, Mass.*	Τ Ε Φ House
Pendell, Mary Elizabeth, Arts	*Caribou*	Balentine Hall
Peterson, Gardner Henry, Ch.Eng.	*Wakefield, Mass.*	Σ Ν House
Peterson, Philip Francis, Arts	*Caribou*	Θ Χ House
Philbrook, George Edwin, Ch.	*Tenafly, N. J.*	Α Τ Ω House
Philpott, Lawrence Arad, Ee.	*Patten*	77 Mill Street
Picard, Marguerite Mary, Arts	*Augusta*	Colvin Hall
Pierce, Edward Wiggin, Fy.	*Portland*	Θ Χ House
Pippin, Richard Peter, Arts	*Bar Harbor*	53 Bennoch Street
Plesset, Abraham Eli, Arts	*Fort Kent*	88 Palm Street, Bangor
Plimpton, Robert Hall, Fy.	*Newton Centre, Mass.*	Φ Μ Δ House
Plourde, Leonard Bradbury, Me.	*Orono*	18 Oak Street
Polito, Armando Arnaldo, Arts	*Portland*	Θ Χ House
Prahar, Louis Benjamin, Fy.	*Englewood, N. J.*	Α Τ Ω House
Pratt, Leonard Melvin, Ee.	*Greenville Junction*	Α Τ Ω House
Profita, Josephine Mary, Arts	*Bangor*	4 Essex Street, Bangor
Ranco, Bertha Elizabeth, Arts	*Old Town*	Indian Island, Old Town
Ranco, Sadie Theresa, He.	*Old Town*	Indian Island, Old Town
Rankin, Lucille Anne, He.	*Rockland*	Balentine Hall
Raye, Mary Helen, Arts	*Eastport*	Balentine Hall
Raymond, Richard Watt, Pa.	*St. Albans, Vt.*	Κ Σ House
Reid, Eleanor Cooper, He.	*Lisbon Falls*	Balentine Hall
Reidman, Ernest John, Ch.Eng.	*Auburn*	Α Τ Ω House
Robbins, Arthur William, Fm.	*Gouldsboro*	25 Grove Street
Robinson, Verna Ellen, Arts	*Gloucester, Mass.*	Balentine Hall
Rogers, Philip Norris, Fm.	*Mars Hill*	Φ Η Κ House
Rosen, Antoria Shirley, He.	*New Sweden*	Colvin Hall
Ross, John Buchanan, Fy.	*Bridgeport, Conn.*	Λ Χ Α House
Ross, John Hart, Ed.	*Belmont, Mass.*	Β Θ Π House
Roundy, George, Fy.	*Walpole, Mass.*	Σ Α Ε House
Rowe, Catharine Lancaster, Arts	*Bangor*	Balentine Hall
Rowe, Ernest York, Arts	*Eliot*	36 College Road
Rubin, Morris David, Arts	*Bangor*	55 Elm Street, Bangor
Russell, Charles Stanward, Ch.Eng.	*Stillwater*	Stillwater
Sadler, Rudolph Charles Albert, Ee.	*Limerick*	Σ Χ House
Saltzman, William Clarence, Ch.Eng.	*Bangor*	303 Broadway, Bangor
Schoppe, Robert Pilsbury, Arts	*West Auburn*	Α Τ Ω House
Seavey, Ruthe Shirley, He.	*Cape Porpoise*	15 Pierce Street

Shannon, Thomas Rae, Arts	*Glens Falls, N. Y.*	Λ X A House
Sharon, Cora Edra, Arts	*Wrentham, Mass.*	Balentine Hall
Shaw, Beulah Lilah, He.	*Freeport*	Balentine Hall
Shay, Mary Regina, Arts	*Newton Highlands, Mass.*	Balentine Hall
Shea, Merrill Arthur, Fy.	*Wilton*	Λ X Λ House
Sherry, Edward Chaplin, Arts	*Portland*	Φ K Σ House
Shesong, Faith Lovejoy, Arts	*Portland*	Colvin Hall
Shute, Harry David, Ch.Eng.	*Augusta*	B Θ Π House
Siegel, James Howard, Arts	*Bangor*	22 Hazel Street, Bangor
Small, Gerald Turner, Arts	*Bangor*	18 Elizabeth Avenue, Bangor
Smart, Walter Elden, Jr., Ch.Eng.	*Portland*	Φ Γ Δ House
Smith, Arthur Grant, Ch.Eng.	*Oakland*	25 Grove Street
Smith, Donald Arlington, Fy.	*Brewer*	18 Washington Street, Brewer
Smith, Frances Sargent, Arts	*Portland*	Balentine Hall
Smith, Francis Wager, Jr., Fy.	*New Haven, Conn.*	College Road
Smith, Gordon Gilman, Arts	*Bangor*	514 Broadway, Bangor
Smith, Hiram LeRoy, Jr., Ch.Eng.	*Newton Highlands, Mass.*	A T Ω House
Smith, Walter Marston, Jr., Ce.	*Surry*	Φ M Δ House
Smith, Wendell Walker, Arts	*Westfield*	21 Mill Street
Spavin, Henry Arnold, Ce.	*West Roxbury, Mass.*	B Θ Π House
Spence, Fred Albert, Ce.	*Springvale*	Δ T Δ House
Stanley, James Sterling, Arts	*Mattawamkeag*	113 Jackson Street, Bangor
Staples, Walter Sylvester, Ph.	*Kittery*	25 Grove Street
Stern, Herbert, Arts	*Bangor*	416 Hancock Street, Bangor
Stevens, Richard Merle, Arts	*Bangor*	67 Otis Street, Bangor
Stone, Charles Taylor, Fy.	*Bridgton*	Λ X A House
Stromberg, Edwin Knight, Ch.	*North Berwick*	Σ A E House
Strout, Vincent Dickey, Arts	*Jay*	53 Bennoch Street
Sturgis, Frederick Sweeney, Arts	*Portland*	K Σ House
Sullivan, Martin William, By.	*Lynn, Mass.*	Σ A E House
Sutton, Mary-Hale, He.	*West Roxbury, Mass.*	Colvin Hall
Swan, Rosa Elizabeth, He.	*Brewer*	Colvin Hall
Swenson, Alfred August, Me.	*Millinocket*	Θ X House
Tapley, Frank Merton, Fm.	*Robinson's*	Φ H K House
Tarbell, Lester Joseph, Ch.Eng.	*Smyrna Mills*	B Θ Π House

Taylor, Georgia Hawkes, He.	*South Portland*	Colvin Hall
Taylor, Harold Stone, Arts	*Bangor*	223 Essex Street, Bangor
Thibodeau, Lawrence O'Neil, Me.	*Fairfield*	A T Ω House
Thomas, Edith Louise, Arts	*Skowhegan*	South Hall
Thompson, James Douglas, Arts	*South Bristol*	Σ N House
Thompson, Marjorie Evelyn, He.	*Biddeford*	Balentine Hall
Thompson, Marjorie Mason, He.	*Brewer*	10 Brimmer Street, Brewer
Thompson, Norman Herbert, Me.	*Biddeford*	Σ A E House
Thompson, William Raymund, Jr., Fm.	*Caribou*	31 Spruce Street, Bangor
Timson, George Edwin, Jr., Arts	*Lynn, Mass.*	A T Ω House
Toms, Robert Henry, Me.	*Portland*	Θ X House
Tondreau, Priscilla Anne Marie, Arts	*Brunswick*	15 Pierce Street
Trask, Allen Dudley, Ch.Eng.	*Melrose Highlands, Mass.*	Σ X House
Troland, Edwin Parker, Me.	*Malden, Mass.*	Φ K Σ House
Trott, Caleb Merritt, Arts	*Bath*	A T Ω House
Tsoulas, George Louis, Arts	*Bangor*	83 Elm Street, Bangor
Vannah, Sherman, Me.	*Waldoboro*	Θ X House
Varney, Richard Harrison, Fm.	*Jonesboro*	25 Grove Street
Veague, Arnold Leolin, Arts	*Castine*	Φ K Σ House
Veague, William Everett, Arts	*Harborside*	Φ K Σ House
Viner, Benjamin Fogg, Arts	*Bangor*	24 Oak Street
Viola, Ralph Thomas, Fy.	*Orono*	Main Road
Voegelin, Adolphine, He.	*Boonton, N. J.*	Colvin Hall
Waddington, Norman, Fy.	*Rumford*	Φ Γ Δ House
Waldron, Richard Shailer, Fy.	*Dexter*	A T Ω House
Wanagel, Michael, Me.	*Newburyport, Mass.*	A T Ω House
Ward, William Howard, Ce.	*North Uxbridge, Mass.*	A T Ω House
Ware, Barbara Emily, He.	*South Portland*	Colvin Hall
Watson, Festus George, Ee.	*Portland*	Θ X House
West, Howard Fletcher, Arts	*Canton*	Φ M Δ House
Whitman, William Parsons, Me.	*Belfast*	Φ Γ Δ House
Whitmore, Rose Frances, Arts	*Rockland*	Balentine Hall
Whittier, Rufus Greenleaf, Ee.	*East Machias*	Θ X House
Willey, James Frederick, Fy.	*St. Johnsbury, Vt.*	Θ X House
Williams, John Perkins, Arts	*Ogunquit*	Λ X A House

Williams, Richard Eaton, Fy.	*Framingham, Mass.*	Α Τ Ω House
Williams, Thomas Arthur, Ee.	*Springfield, Mass.*	Σ Χ House
Williston, Margaret Ruth, Arts	*Bangor*	264 French Street, Bangor
Wishart, Douglas James, Pa.	*Rumford*	Φ Γ Δ House
Witherspoon, Donald Francis, Fy.	*North Haven*	80 North Main Street
Woodland, Edwin Conrad, Dh.	*Watertown, Mass.*	Κ Σ House
Wright, Mary Louise, He.	*Portland*	Balentine Hall
Yeaton, George William, Arts	*Farmington*	Σ Ν House
Young, Kenneth Bradford, Ce.	*Sherman Mills*	Φ Η Κ House
Youngs, Annette Helen, He.	*Bangor*	225 Center Street, Bangor
Zoidis, Peter, Arts	*Bangor*	125 Grove Street, Bangor

FRESHMEN

Adams, Harry Elwin, Jr., Fy.	*Haverhill, Mass.*	410 H. H. Hall
Adams, Jonathan Edwards, Jr., Ge.	*Bangor*	235 West Broadway, Bangor
Additon, Elden Fred, Agr.	*Greene*	104 H. H. Hall
Albert, Paul Aurele, Ge.	*Presque Isle*	45 Mill Street
Alley, John Chase, Fy.	*Portland*	Φ Η Κ House
Anderson, Anna Mirdza, Arts	*Derby*	College Road
Anderson, Evangeline Deborah, Arts	*Monson*	The Maples
Archibald, Mary Cordelia, Arts	*Houlton*	The Maples
Bailey, Barbara, Arts	*Machias*	Balentine Hall
Bailey, Cora Alice, Arts	*Waterville*	36 Forest Avenue
Baker, Gwendolyn Marie, He.	*Brewer*	29 Brimmer Street, Brewer
Bannigan, Marguerite Connor, Arts	*Waterville*	Balentine Hall
Barker, Thomas Levi, Agr.	*East Vassalboro*	312 H. H. Hall
Bartlett, Ann Quincy, Arts	*Sorrento*	The Maples
Bartlett, Charles Edward, Jr., Agr.	*Eliot*	Σ Α Ε House
Barton, Ruth Estelle, He.	*West Gray*	South Hall
Bean, Gerald Franklin, Ee.	*Auburn*	311 H. H. Hall
Bearce, Mary Leslie, Arts	*Bucksport*	The Maples
Bell, Eleanor Lucille, He.	*Albany, N. Y.*	Balentine Hall
Bell, Irving Morris, Arts	*Lewiston*	Τ Ε Φ House

Billings, Herman, Fy.	*Portland*	408 H. H. Hall
Blackwell, Ruel Jotham, Ge.	*Madison*	205 H. H. Hall
Blair, Elaine Anne, Arts	*Island Falls*	156 Stillwater Avenue, Old Town
Blaisdell, Tedford Madison, Ge.	*Franklin*	304 H. H. Hall
Blake, Donald Colton, Arts	*Bangor*	188 Fountain Street, Bangor
Blake, Howard Francis, Me.	*Portland*	Kell Street
Blanchard, Charles Louis, Ch.Eng.	*Bangor*	48 Montgomery Street, Bangor
Bond, Helen Marden, Arts	*Bangor*	121 Grant Street, Bangor
Bonville, Jeannette Louise, Arts	*Presque Isle*	R.F.D. #7, Bangor
Bowler, Mary, He.	*Millinocket*	The Maples
Brackett, Arthur Lindsey, Arts	*Marblehead, Mass.*	102 H. H. Hall
Bradford, Merrill Ray, Arts	*Bangor*	35 Poplar Street, Bangor
Bramhall, Robert Billings, Me.	*Quincy, Mass.*	405 H. H. Hall
Brann, Leonard Maurice, Agr.	*North Whitefield*	408 H. H. Hall
Brastow, Vera Estelle, He.	*Brewer*	The Maples
Browne, Paul Everett, Agr.	*Bethel*	312 H. H. Hall
Bryers, Jerome Jefferson, Fy.	*Rockville Centre, N. Y.*	Σ X House
Buck, Embert Clason, Agr.	*Harrison*	25 Grove Street
Bucklin, Dunbar Richard, Fy.	*South Warren*	Φ K Σ House
Burke, Virginia, He.	*Hanson, Mass.*	Balentine Hall
Burns, John Wesley, Agr.	*Union*	Kell Street
Burr, Louise Elizabeth, Arts	*Eastport*	Balentine Hall
Buzzell, Mary Edith, He.	*Fryeburg*	South Hall
Byer, Edwin, Arts	*Bangor*	36 Essex Street, Bangor
Cahill, James Best, Fy.	*Trenton, N. J.*	K Σ House
Cail, Robert Small, Arts	*Portland*	Σ A E House
Calvert, Lawrence Arthur, Ee.	*Smiths Falls, Ontario*	84 College Road
Cameron, John Robert, Ce.	*Old Town*	156 North Fourth Street, Old Town
Campbell, Josephine O'Brien, Arts	*Machias*	The Maples
Carolin, Valentine Mott, Fy.	*Sayville, N. Y.*	403 H. H. Hall
Cates, Ethel Maxine, He.	*Thorndike*	74 North Main Street
Chamberlain, Austin Hunter. Ge.	*Mt. Vernon, N. Y.*	111 H. H. Hall

Chandler, Alice Louise, He.	*Machias*	69 Bennoch Street
Chapman, Gordon Lewis, Fy.	*Portland*	Θ X House
Chase, Andrew Jackson, Ch.Eng.	*Howland*	301 H. H. Hall
Chase, Eva Isobel, Arts	*Limestone*	South Hall
Checchi, Vincent Victor, Arts	*Calais*	Θ X House
Cheney, James Irvill, Arts	*Monmouth*	407 H. H. Hall
Chute, Laura Grace, He.	*Brewer*	The Maples
Ciomei, Laurence Rizzier, Me.	*Stonington*	411 H. H. Hall
Claflin, Dexter Kidder, Fy.	*Orange, Mass.*	104 H. H. Hall
Clark, Carleton Hermon, Ch.Eng.	*Springfield, Mass.*	Σ N House
Clark, Eldon Ralph, Fy.	*Dennysville*	411 H. H. Hall
Clark, Kenneth Edward, Agr.	*Fort Fairfield*	411 H. H. Hall
Clement, Roger Conant, Agr.	*Monroe*	305 H. H. Hall
Clifford, William Foster, Arts	*Westmount, Quebec*	A T Ω House
Cohen, Edward Eugene, Arts	*Bangor*	311 French Street, Bangor
Collins, Frank Henry, Ge.	*Bar Harbor*	39 Pine Street
Colwell, Miriam Alice, Arts	*Prospect Harbor*	The Maples
Cook, Robert Boone, Fy.	*Presque Isle*	109 H. H. Hall
Cooper, Erwin Elling, Arts	*Mattapan, Mass.*	103 H. H. Hall
Corbett, Barbara, He.	*Orono*	Campus
Corrigan, Philip Aiken, Ge.	*Calais*	Θ X House
Corrigan, Yvonne Mary, Arts	*Millinocket*	Balentine Hall
Costrell, Louis Charles, Ee.	*Bangor*	210 H. H. Hall
Crabtree, Kenneth Lester, Me.	*Union*	College Road
Craig, Dorothy Lord, Arts	*Fryeburg*	The Maples
Craig, Philip Charles, Agr.	*Patten*	310 H. H. Hall
Craig, William Henry, Fy.	*Bingham*	209 H. H. Hall
Crockett, Eleanor Mabel, Arts	*Hopedale, Mass.*	Balentine Hall
Crosby, Bradford Lawrence, Agr.	*Belfast*	25 Grove Street
Croteau, Dearnley, Arts	*Lisbon Falls*	403 H. H. Hall
Crowell, Samuel, III, Me.	*Marblehead, Mass.*	403 H. H. Hall
Cullinan, Robert Vincent, Arts	*South Portland*	203 H. H. Hall
Cunningham, James W., Ch.Eng.	*Old Town*	36 Veazie Street, Old Town
Curran, Dennis Joseph, Arts	*Bangor*	101 Fern Street, Bangor
Curran, Hazel Bernice, He.	*Milo*	The Maples
Currie, Charlotte Hope, Arts	*Hartland*	Balentine Hall
Curtin, Timothy Francis, Agr.	*Everett, Mass.*	Θ X House
Curtis, Elizabeth, He.	*Searsport*	Balentine Hall
Cuzner, Wilbur Leonard, Ch.Eng.	*Belfast*	202 H. H. Hall

Danforth, John William, Arts	*Dover-Foxcroft*	404 H. H. Hall
Davee, Pauline Weltha, Arts	*Orono*	46 College Road
Davis, Carl Fremont, Ge.	*Rumford*	101 H. H. Hall
Davis, Dorothy, He.	*Albany, N. Y.*	Balentine Hall
Davis, Edward Everett, Ce.	*Burnham*	56 Park Street
Davis, Richard Lyman, Ce.	*Bethel*	401 Oak Hall
Day, Elroy Kenneth, Ce.	*North Berwick*	Σ A E House
Dean, Orris Lee, Jr., Ch.Eng.	*Derby*	209 H. H. Hall
Dean, Philena Emily, He.	*Waterville*	The Maples
DeMeyer, Everett Eaton, Arts	*Franklin*	24 Oak Street
DeWitt, Frank William, Agr.	*Sherman Mills*	25 Grove Street
Dimitre, Charlotte Louise, He.	*Calais*	The Maples
Dixon, Elizabeth Rachel, Arts	*Old Town*	249 Center Street, Old Town
Doak, Carleton, Jr., Ge.	*Belfast*	Φ Γ Δ House
Doble, Elisabeth Jean, He.	*Beverly, Mass.*	Balentine Hall
Dodge, Harland Laurell, Arts	*Hudson Falls, N. Y.*	Λ X A House
Doe, George Edward, Fy.	*Kezar Falls*	Θ X House
Doe, Robert Wendell, Ch.Eng.	*Bingham*	312 H. H. Hall
Douglas, John Wesley, Jr., Agr.	*Lisbon*	A Γ P House
Drew, Dana Edgecomb, Agr.	*Patten*	110 H. H. Hall
Drummond, Pauline Louise, He.	*Orono*	The Maples
Dunbar, Ethel Margaret, He.	*Machias*	Balentine Hall
Dunbar, Marion Phoebe, He.	*East Belfast*	The Maples
Duncan, Carleton Lewis, Agr.	*Presque Isle*	45 Mill Street
Dunne, Charles Edmund, Fy.	*Newton, Mass.*	401 H. H. Hall
Dyer, Hamilton Higgins, Jr., Me.	*Kennebunk*	410 H. H. Hall
Dyer, Harold Jacobson, Ee.	*Portland*	Σ A E House
Dyson, Albert Orne, Ch.Eng.	*Stoneham, Mass.*	Σ X House
Edwards, John Sherwood, Fy.	*Bridgeport, Conn.*	Φ H K House
Ela, Benjamin Walter, Jr., Ch.Eng.	*North Anson*	Σ N House
Ellis, Gilbert Milton, Arts	*Orono*	29 Park Street
Emery, Leonard Hayden, Arts	*Cumberland Mills*	201 H. H. Hall
Epstein, Lucille Mae, Arts	*Bangor*	The Maples
Estabrook, Harold Udell, Arts	*Calais*	Σ X House
Fales, Joan Elinor, Arts	*Waterville*	Balentine Hall
Farrin, Afton Holmes, Jr., Fy.	*South Bristol*	Σ N House
Farris, Ralph Webster, Jr., Arts	*Augusta*	Σ N House
Farris, Robert Calvin, Jr., Agr.	*Union*	Kell Street

Fay, Norman Frederick, Arts	*Needham, Mass.*	310 H. H. Hall
Feeley, Howard Thomas, Arts	*New Harbor*	412 H. H. Hall
Feero, Robert Clyde, Ch.	*Bath*	A T Ω House
Fitch, Bula Louise, He.	*Orono*	32 College Road
Fogg, Lucille Carroll, Arts	*Bangor*	The Maples
Folsom, Marie Theresa, Arts	*Orono*	63 Forest Avenue
Folsom, Phillips Emery, Arts	*Biddeford*	303 H. H. Hall
Foss, Jane Barbara, He.	*Freeport*	The Maples
Foster, John Alfred, Arts	*Northeast Harbor*	Σ A E House
Friedman, Albert, Arts	*Bangor*	173 Broadway, Bangor
Gale, Eunice Marion, Arts	*Portland*	68 Montgomery Street, Bangor
Gallison, David Elder, Arts	*Lambert Lake*	404 H. H. Hall
Gamage, Russell Wells, Ge.	*Christmas Cove*	Δ T Δ House
Gerstian, Marjory, Arts	*Augusta*	The Maples
Gillcrist, Roger Thomas, Fy.	*Dorchester, Mass.*	208 H. H. Hall
Gilman, Elvin Junior, Me.	*Ellsworth*	38 Grove Street
Gleason, Lawrence John, Ce.	*Bangor*	95 Otis Street, Bangor
Goodrich, Maison Keith, Agr.	*Patten*	311 H. H. Hall
Goud, Allan Frederick, Arts	*Van Buren*	102 H. H. Hall
Gould, Maurice Welford, Fy.	*Kennebunkport*	60 Forest Avenue
Grace, Barbara, He.	*Lynnfield Center, Mass.*	Balentine Hall
Grace, Donald Frye, Arts	*Jamaica Plain, Mass.*	Σ N House
Grange, Jean Isabelle, He.	*Smyrna Mills*	South Hall
Grant, Philip Farnsworth, Fy.	*Cherryfield*	310 H. H. Hall
Grant, Theodore Hudson, Ge.	*Houlton*	Σ N House
Gray, Gaylor Albert, Fy.	*Bluehill*	111 H. H. Hall
Gray, Helena Dorothy, He.	*Cape Rosier*	Balentine Hall
Greene, Josephine Luella, He.	*Belfast*	The Maples
Gross, Katherine Elizabeth, He.	*Lewiston*	South Hall
Groves, Stephen William, Me.	*East Millinocket*	402 H. H. Hall
Grundy, Walton Earle, Agr.	*Portland*	38 Oak Street
Guppy, Ralph Hurd, Jr., Ce.	*Union*	412 H. H. Hall
Hall, Thomas William, Agr.	*Wiscasset*	Φ M Δ House
Hall, William Henry, Jr., Ge.	*Belfast*	111 H. H. Hall
Halliday, Harry Horn, Fy.	*Newtonville, Mass.*	401 H. H. Hall
Hanson, Helen Jackman, Arts	*Augusta*	South Hall
Harlow, Barbara, Arts	*Turners Falls, Mass.*	South Hall

Harnden, Frederick Barker, Ge.	*Rangeley*	203 H. H. Hall
Harriman, John Philip, Ee.	*Cherryfield*	208 H. H. Hall
Harris, Louis Tolman, Arts	*Milo*	K Σ House
Harrison, Edna Louise, He.	*Newburgh, N. Y.*	Balentine Hall
Hart, Elmer Colburn, Fy.	*South Hope*	Kell Street
Hartwell, James Haywood, Ce.	*Trenton, N. J.*	109 H. H. Hall
Haskell, Donald Benjamin, Me.	*Portland*	Λ X A House
Haskell, Priscilla Day, Arts	*Wiscasset*	South Hall
Hayes, Edward Keith, Arts	*Orono*	407 H. H. Hall
Heald, Erwin Lovett, Ee.	*Lincolnville*	210 H. H. Hall
Heldman, Maxine Rita, He.	*Lewiston*	South Hall
Henry, Mary Elizabeth, He.	*Thomaston*	The Maples
Higgins, Foster L., Jr., Arts	*Augusta*	206 H. H. Hall
Higgins, Ralph M., Arts	*Augusta*	206 H. H. Hall
Hill, Charles St. John, Me.	*Orono*	9 Kell Street
Hilton, Esther Laura, Arts	*Athens*	The Maples
Hilton, William Rogers, Ce.	*Bangor*	77 James Street, Bangor
Hines, Dorothy Mildred, Arts	*Middletown, Conn.*	Balentine Hall
Hodgdon, Kendrick Yale, Agr.	*Anson*	48 Boutelle Road, Bangor
Hodgdon, Malvern Foss, Ge.	*Biddeford*	Σ A E House
Holbrook, Charles Marsh, Ce.	*Belmont, Mass.*	26 Peters Street
Holman, Helen Houston, He.	*Bangor*	The Maples
Holmes, Henrietta Brainerd, Arts	*Farmington Falls*	The Maples
Homans, Elizabeth West, He.	*Bangor*	South Hall
Hooper, Gwendolyn Marks, He.	*Old Town*	154 Brunswick Street, Old Town
Hopkins, Albert Gerald, Fy.	*Newburyport, Mass.*	311 H. H. Hall
Hopkins, Richard Carver, Ge.	*Camden*	210 H. H. Hall
Howard, Preston Oliver, Jr., Ee.	*Rumford*	Φ Γ Δ House
Howard, Richard Homer, Agr.	*Sangerville*	403 H. H. Hall
Howard, Sheldon Kenneth, Me.	*North Monmouth*	407 H. H. Hall
Howe, Louis William, Jr., Ge.	*Greene*	9 Forest Avenue
Hoxie, Margaret Leonora, Arts	*Belfast*	Balentine Hall
Hutcheon, Mary Helen, He.	*Presque Isle*	Balentine Hall
Hutchinson, Edward Walter, Ch.Eng.	*Little Deer Isle*	A T Ω House
Jellison, Milton Sylvester, Arts	*Bangor*	279 Essex Street, Bangor
Jennings, Malbon Hollis, Ee.	*Haverhill, Mass.*	410 H. H. Hall
Jones, Barbara, Arts	*Biddeford*	The Maples
Jones, Robert Harris, Me.	*Calais*	304 H. H. Hall

Judd, Francis Russell, Fy.	*New Haven, Conn.*	Σ N House
Judkins, Albert Edwards, Arts	*Upton*	25 Grove Street
Kelley, Eric Winslow, Agr.	*South Portland*	212 H. H. Hall
Kimball, Charles Edwin, Jr., Arts	*Dover-Foxcroft*	404 H. H. Hall
King, Charlotte Edith, Arts	*Bath*	Balentine Hall
Kirkland, Robert, Jr., Ee.	*Quincy, Mass.*	405 H. H. Hall
Kirkpatrick, Alan Fred, Ch.Eng.	*Old Orchard Beach*	104 H. H. Hall
Kiszonak, Marion Frances, He.	*Lisbon Falls*	11 Veazie Street, Old Town
Knotts, Elizabeth McCoy, Arts	*Portland*	The Maples
Konecki, Leon Walter, Arts	*South Portland*	Σ X House
Kufel, Stacia Victoria, He.	*Shirley, Mass.*	The Maples
Kuney, Clark Glamis, Ge.	*Brookline, Mass.*	306 H. H. Hall
Kyer, Marguerite Edith, Arts	*Brewer*	236 Wilson Street, Brewer
Ladd, Edward Rankin, Arts	*Rockland*	204 H. H. Hall
Lamoreau, Jeanette, Arts	*Presque Isle*	The Maples
Lancaster, Alden, Arts	*Presque Isle*	409 H. H. Hall
Lantis, Gale Leon, Arts	*Bluffton, Ind.*	12 Middle Street
Leavitt, Lois Priscilla, He.	*Orono*	7 Park Street
Leighton, Berenice Maude, Arts	*Harrington*	The Maples
Leonard, Herbert Arthur, Agr.	*Thorndike*	204 H. H. Hall
Lippke, Arthur John, Jr., Fy.	*Jamaica, N. Y.*	201 H. H. Hall
Longley, Andrew Muirhead, Arts	*Georgetown, Mass.*	104 H. H. Hall
Look, Ellen Louise, Arts	*North Jay*	The Maples
Lovering, Francis Ward, Arts	*Tyngsboro, Mass.*	Σ A E House
Lynch, Owen Albert, Arts	*Bangor*	203 H. H. Hall
McAllister, Cecil Jerome, Fy.	*Casco*	104 H. H. Hall
McCarthy, William Edward, Agr.	*Rumford*	409 H. H. Hall
McCready, John Philip, Agr.	*Presque Isle*	60 Forest Avenue
MacDonald, Reginald Peppard, Me.	*Lynn, Mass.*	308 H. H. Hall
McDonnell, Arthur Philip, Arts	*South Portland*	203 H. H. Hall
McKenzie, Melvin Almon, Me.	*Lewiston*	Θ X House
Magazine, Arnold Lloyd, Arts	*Brookline, Mass.*	103 H. H. Hall
Maguire, Mary Virginia, He.	*Portland*	Balentine Hall
Mallet, Alfred Parker, Fy.	*South Portland*	101 H. H. Hall
Marston, Merwin Abbott, Fy.	*East Waterford*	202 H. H. Hall
Merrifield, Carleton Eddy, Agr.	*Stoneham, Mass.*	77 Mill Street

Merrill, Leonard Carleton, Arts	*Bradley*	R. #6, Brewer
Merrill, Ruth Elizabeth, He.	*Old Town*	The Maples
Merrill, Wayne Howard, Agr.	*Cumberland Center*	102 H. H. Hall
Merritt, Lawrence MacFarland, Arts	*Manchester, N. H.*	309 H. H. Hall
Miller, Anita Elinor, Arts	*Monmouth Beach, N. J.*	Balentine Hall
Millett, Elwood Dimock, Me.	*Norway*	202 H. H. Hall
Monroe, Richard Anderson, Fy.	*Melrose, Mass.*	111 H. H. Hall
Mooers, Robert Douglas, Arts	*Bangor*	90 Wiley Street, Bangor
Moore, Donald James, Arts	*Bangor*	768 Union Street, Bangor
Morong, Raymond Lee, Ee.	*Madison*	110 H. H. Hall
Morrell, Harry Elmer, Jr., Ge.	*Brunswick*	410 H. H. Hall
Morse, Roger Harry, Fy.	*Northboro, Mass.*	45 Mill Street
Moulton, Marjorie Gloria, Arts	*Randolph*	Balentine Hall
Mowatt, George Malcolm, Arts	*Calais*	Θ X House
Moynihan, Julia Ruth, He.	*Madison*	Balentine Hall
Murphy, Gerald Eugene, Ch.Eng.	*Portland*	411 H. H. Hall
Nason, Beverly Ross, Ch.	*Old Town*	291 South Main Street, Old Town
Nelson, Charles Brown, Fy.	*Newburyport, Mass.*	311 H. H. Hall
Nelson, Eunice Josephine, Arts	*Old Town*	Indian Island, Old Town
Nelson, Raymond Lloyd, Fy.	*Concord, Mass.*	211 H. H. Hall
Nelson, Waldo, Fy.	*Wells*	211 H. H. Hall
Norton, Raymond Francis, Arts	*Bangor*	24 Buck Street, Bangor
Norton, Weston Pike, Fy.	*Strong*	211 H. H. Hall
O'Hear, Hugh Joseph, Ch.Eng.	*Bangor*	51 Boutelle Road, Bangor
Ohnesorge, Louise Maxine, Arts	*Kennebunkport*	The Maples
O'Keefe, Charlotte Alma, He.	*Old Town*	63 Bradbury Street, Old Town
Oldreive, George Franklin, Arts	*Malden, Mass.*	301 H. H. Hall
Orr, Mary Josephine, Arts	*Old Town*	202 North Brunswick Street, Old Town
Pagan, Ruth Alta, Arts	*Claremont, N. H.*	The Maples
Page, William Birney, Ce.	*North Gorham*	8 Kell Street
Parkman, Ethelyn Arlene, He.	*Lynn, Mass.*	The Maples
Parkman, Lauress Tibbetts, Me.	*Lynn, Mass.*	308 H. H. Hall

Patterson, Arthur Willis, Jr., Arts	*Castine*	204 H. H. Hall
Patterson, Frederick Gillis, Arts	*Castine*	204 H. H. Hall
Payson, Carleton Burkett, Arts	*Union*	Kell Street
Pendleton, Brian, Arts	*Lewiston*	310 H. H. Hall
Perrin, Donald Herbert, Agr.	*Sherman Mills*	45 Mill Street
Perry, John William, Arts	*Old Town*	474 Stillwater Avenue, Old Town
Philbrick, Burton Stiles, Arts	*Salem, Mass.*	404 H. H. Hall
Philbrook, Helen Marion, He.	*Shelburne, N. H.*	The Maples
Pierce, Alice, Arts	*Lunenburg, Mass.*	Balentine Hall
Pierce, Margaret Helen, Arts	*Bath*	The Maples
Pinkham, Thomas Sears, Jr., Arts	*Fort Kent*	Σ N House
Place, Clarence Wilson, Jr., Arts	*Biddeford*	303 H. H. Hall
Plummer, Philip Edd, Agr.	*Addison*	Σ N House
Porter, Phyllis Jean, He.	*Houlton*	The Maples
Pratt, Elbert Sewall, Arts	*Livermore Falls*	Θ X House
Preble, Frederick Bradford, Arts	*Auburn*	Δ T Δ House
Quigley, Richard, Fy.	*Providence, R. I.*	208 H. H. Hall
Quint, Donald Howard, Ch.Eng.	*Yarmouth*	311 H. H. Hall
Ramsdell, Ellis McNevin, Arts	*Rockland*	209 H. H. Hall
Raye, Alexander Hinds, Eng.	*Eastport*	80 North Main Street
Raye, John Franklin, Me.	*Eastport*	80 North Main Street
Read, Theodore Otis, Fy.	*Center Sandwich, N. H.*	A T Ω House
Reed, Earle Duncan, Ge.	*Augusta*	Φ K Σ House
Reid, Elizabeth Hunt, He.	*Augusta*	The Maples
Rice, Margaret Louise, Arts	*Bangor*	26 Catell Street, Bangor
Rich, Franklin Wilson, Agr.	*Charleston*	25 Grove Street
Rich, Robert Davis, Arts	*Portland*	309 H. H. Hall
Rideout, Linwood Brown, Fy.	*Bowdoinham*	303 H. H. Hall
Robbins, Bernard Clarence, Agr.	*Gardiner*	309 H. H. Hall
Roberts, Malcolm Woodbury, Agr.	*Alfred*	411 H. H. Hall
Roberts, Marion Emerson, He.	*Kennebunk*	The Maples
Rodgers, Newton Jennings, Ch.Eng.	*Portland*	111 H. H. Hall
Rubinoff, Maurice Jack, Arts	*Portland*	T E Φ House
Rucker, Maurice Eugene, Fy.	*Hyannis, Mass.*	212 H. H. Hall
Russell, Louis Reid, Fy.	*Fort Fairfield*	409 H. H. Hall

Saex, Irving Gilbert, Arts	*Holyoke, Mass.*	T E Φ House
Sanborn, Jean Cummings, He.	*Bangor*	The Maples
Sanborn, Jeannette Winter, He.	*Bangor*	The Maples
Sanborn, Ralph Durell, Me.	*Palmer, Mass.*	110 H. H. Hall
Sawyer, George Roberts, Ch.Eng.	*Old Town*	23 Bradbury Street, Old Town
Sawyer, Neil Gould, Arts	*Easton*	306 H. H. Hall
Sheedy, Maxine Frances, He.	*East Millinocket*	The Maples
Sheraton, Robert Leonard, Me.	*West Newton, Mass.*	304 H. H. Hall
Sias, George William, Ce.	*Turner Center*	148 College Road
Silver, Dorothy, Arts	*Bangor*	R.F.D. #7, Bangor
Skinner, DeWitt, Fy.	*Newtonville, Mass.*	401 H. H. Hall
Smith, Clement Harold, Agr.	*Monmouth*	305 H. H. Hall
Smith, Mark Sheldon, Ee.	*Bangor*	16 Bower Street, Bangor
Smith, Ralph Getchell, Agr.	*Exeter*	304 H. H. Hall
Smith, Richard Gary, Agr.	*Caribou*	Φ H K House
Snowdon, Glenwood Albert, Arts	*Bath*	Φ H K House
Speirs, Ernest Lincoln, Arts	*Westbrook*	201 H. H. Hall
Spencer, Arlo Norman, Fy.	*Bradley*	Bradley
Springer, Russell Francis, Me.	*East Walpole, Mass.*	309 H. H. Hall
Sprowl, Leander Mayford, Agr.	*Searsmont*	Stillwater
Stacy, Dora Louise, Arts	*Shirley*	South Hall
Stacy, Madge Elizabeth, Arts	*Shirley*	South Hall
Stanley, Edward Carpenter, Arts	*Rockville Centre, N. Y.*	Φ Γ Δ House
Staples, Stanley Wordsworth, Arts	*Bangor*	160 Essex Street, Bangor
Stearns, Lura Mae, He.	*South Paris*	Campus
Stetson, Frederic Hastings, Ge.	*Bangor*	24 Grove Street, Bangor
Stevens, Blair, Arts	*Bangor*	451 Union Street, Bangor
Stewart, Harriette Dalrymple, Arts	*Waterville*	Balentine Hall
Stinchfield, Roger Maxim, Agr.	*Wayne*	104 H. H. Hall
Stockholm, Harold Yager, Fy.	*Poughkeepsie, N. Y.*	47 Mill Street
Stone, Richard Maynard, Ge.	*Portland*	302 H. H. Hall
St. Pierre, Janet Whiting, He.	*Bangor*	8 Hudson Street, Bangor
Strout, Donald Francis, Fy.	*Jay*	53 Bennoch Street
Sweatt, Cecilia Cooper, He.	*Andover*	32 Pierce Street
Szaniawski, Edward William, Fy.	*Scarsdale, N. Y.*	A T Ω House
Taylor, Marjorie, Arts	*Bangor*	26 Fourth Street, Bangor
Teitelbaum, Abraham Louis, Arts	*Boston, Mass.*	103 H. H. Hall

Temple, George Leonard, Fy.	*Lewiston*	302 H. H. Hall
Temple, Philip Roswell, Arts	*Hopedale, Mass.*	302 H. H. Hall
Terry, Philip Baxter, Jr., Arts	*Scituate, Mass.*	409 H. H. Hall
Thibodeau, Louis Henry, Arts	*Rumford*	Φ Γ Δ House
Thomas, Herrick Melvin, Arts	*Maplewood, N. J.*	402 H. H. Hall
Thomas, Merrill, Ge.	*Rumford*	Φ Γ Δ House
Thomas, Richard Earl, Fy.	*Rockland*	301 H. H. Hall
Thompson, Marie Frances, He.	*Caribou*	Bangor State Hospital, Bangor
Thorn, Adrienne, Arts	*Melrose, Mass.*	Balentine Hall
Thorndike, Allston Kinsley, Jr., Ch.Eng.	*Camden*	209 H. H. Hall
Thurston, Alice Elizabeth, Arts	*Corinna*	The Maples
Tibbetts, Earle Wilbur, Ce.	*Hallowell*	Δ T Δ House
Titcomb, Stanley Thayer, Ch.	*Tarrytown, N. Y.*	205 H. H. Hall
Tolman, Marthon Gregory, Arts	*Portland*	406 H. H. Hall
Toner, Albert Plummer, Arts	*Lewiston*	303 H. H. Hall
Toothaker, Carl Russell, Ee.	*Gardiner*	309 H. H. Hall
Tourtillotte, Harry Elmer, Jr., Ch.Eng.	*Old Town*	74 South Brunswick Street, Old Town
Trafford, David White, Arts	*Brewer*	74 Washington Street, Brewer
Turner, Harland Glidden, Arts	*Augusta*	B Θ Π House
Twombly, Helen Virginia, He.	*Kennebunkport*	Balentine Hall
Tyrrell, Edward Irving, Arts	*Severance, N. Y.*	43 Pine Street
Vail, Dorothea Agnes, Arts	*Cornwall-on-Hudson, N. Y.*	The Maples
Verrill, Thomas Davis, Me.	*Cumberland Mills*	201 H. H. Hall
Wall, Ray Bennett, Eng.	*Wells*	103 H. H. Hall
Walton, Mildred Hayes, Arts	*Eastport*	The Maples
Ward, Sheldon Leroy, Agr.	*Thorndike*	20 Grove Street
Wardwell, Frederick Sargent, Ee.	*Castine*	204 H. H. Hall
Waterhouse, Frederick Roger, Arts	*Kennebunk*	404 H. H. Hall
Weatherbee, Artemus Edwin, Arts	*Bangor*	354 French Street, Bangor
Webber, Helen Virginia, Arts	*Houlton*	The Maples
Weinman, Ralph, Arts	*Portland*	T E Φ House
Wentworth, Owen, Arts	*Kennebunkport*	B Θ Π House
West, Althea Shirley, Arts	*North Berwick*	South Hall
West, Paige Lamb, Arts	*Portland*	301 H. H. Hall
Whiteley, Albert Harry, Fy.	*Limerick*	60 Forest Avenue

Whitney, John Franklin, Ch.Eng.	*Presque Isle*	25 Grove Street
Whittredge, Barbara Fern, Arts	*Brewer*	The Maples
Willson, Harold, Jr., Ch.Eng.	*West Harwich, Mass.*	402 H. H. Hall
Wilson, Gleason Woodrow, Fy.	*Jonesboro*	25 Grove Street
Wilson, Harriette Albina, He.	*Bangor*	9 Parker Street, Bangor
Wing, Merle Wesley, Agr.	*Presque Isle*	25 Grove Street
Winslow, Paul Howard, Ee.	*Millinocket*	Σ N House
Wood, Amy Sheppard, He.	*Old Town*	19 North Brunswick Street, Old Town
Yozukevich, Algird George, Ce.	*Brockton, Mass.*	A T Ω House

UPPERCLASS STUDENTS CONDITIONED FOR ADMISSION

Adams, Winford Charles, Zo.	('37)	*Island Falls*	68 Main Street
Cameron, Roger Tarr, Zo.	('37)	*Gloucester, Mass.*	Φ H K House
Ferrante, Constantine, Ch.	('38)	*Portland*	53 Bennoch Street
Frost, Ernest Merrill, Arts	('38)	*Waterville*	Φ Γ Δ House
Robertson, Clayton Marshall, Zo.	('36)	*Caribou*	Φ Γ Δ House
Thompson, Robert Andrew, Pa.	('36)	*West Enfield*	Σ X House
Turner, Frances Eugene, Arts	('38)	*Bucksport*	K Σ House

SPECIAL STUDENTS

Abbott, David Kelsey, By.	*Brooks*	A Γ P House
Briscoe, Sidney Griscom, Arts	*Orono*	380 College Road
Bryant, Katharine True, Hy.	*Bangor*	265 Hammond Street, Bangor
Chase, Kenneth Webster, Ee.	*Cumberland Center*	
Cox, Joan, He.	*Bangor*	Colvin Hall
Finnegan, Wilfred Augustine, Jr., Zo.	*Bangor*	27 Second Street, Bangor
Fogg, Lillian Hoy, Ed.	*Old Town*	241 Center Street, Old Town
Grady, John Joseph, Arts	*Medford, Mass.*	Φ Γ Δ House
Graffam, Robert Thomas, Ch.	*Portland*	411 Oak Hall
Hart, John Emerson, Arts	*Orono*	13 Pond Street
Harvey, Natalie Frances, Py.	*Bangor*	106 Cedar Street, Bangor
Jordan, Darrel Francis, Eng.	*Orono*	56 Forest Avenue

Kimball, Clarence Elliott, Arts	*Bangor*	194 West Broadway, Bangor
Lannon, Frances Fern, Zo.	*Roslindale, Mass.*	South Hall
Lawson, Nelson Herbert, Ee.	*Bangor*	221 Center Street, Bangor
Leavitt, Ruth Madeline, Arts	*Old Town*	57 Oak Street, Old Town
McConnell, Fred Waterson, Jr., Fy.	*Presque Isle*	109 H. H. Hall
Moore, Millard George, By.	*Old Town*	182 Stillwater Avenue, Old Town
Nichols, Lucy, Arts	*Searsport*	33 Bennoch Street
Nightingale, Lewis Alden, Eh.	*Fort Fairfield*	Σ N House
Nivison, Robert, Jr., Pa.	*Waterville*	B Θ Π House
Noddin, Lawrence McLellan, Arts	*Bangor*	60 Dillingham Street, Bangor
Plaisted, Leigh Charles, An.	*Orono*	Farm Boarding House
Renwick, Beatrice Brevoort, Arts	*Mt. Desert*	2 Peters Street
Sawyer, Clayton Leonard, Ch.A.	*Orono*	Park Street
Stilphen, Paul Leslie, Zo.	*Richmond*	35 Grove Street
Stone, Julius, Arts	*Bangor*	27 State Street, Bangor
Striar, Abraham, Ch.Eng.	*Bangor*	Windsor Hotel, Bangor
Toennesen, Erling Peter, Ge.	*Kittery*	211 H. H. Hall
Trembly, Matthew Bernard, Arts	*Old Town*	45 Elm Street, Old Town
Wells, Earl Edward, Arts	*South Hanover, Mass.*	112 H. H. Hall
Wheeler, Paul Strange, Ce.	*Millinocket*	18 Oak Street
Whitney, Suzanne Savage, Arts	*Bangor*	191 Broadway, Bangor
Zwelling, Martha, Arts	*Bangor*	591 Main Street, Bangor

TWO-YEAR COURSE IN AGRICULTURE

First Year

Ames, Bertram Wendell	*Bangor*	106 Highland Street, Bangor
Bowden, Donald Emery	*Orland*	Kell Street
Chick, Arthur Jesse, Jr.	*Monmouth*	210 H. H. Hall
Leake, Donald Francis	*Bangor*	89 Cottage Street, Bangor
Masterman, Horace Gilbert	*Weld*	Stillwater
Milliken, Wendall Seavey	*Portland*	10 Kell Street
Sirois, William Joseph	*Fort Fairfield*	412 H. H. Hall
Smith, George Russell	*Mars Hill*	110 H. H. Hall

Smith, Richard Marvard	*Orono*	382 College Road
Sprowl, Walter Wilson	*Appleton*	Stillwater
Street, Frederick LeRoy, Jr.	*Bangor*	Ohio Street, R. #4, Bangor
Tracy, Alfred Wallace	*Lincoln*	A Γ P House
Washburn, Frank Johnson	*Dover-Foxcroft*	45 Peters Street
Wilcox, Alton Doble	*Caribou*	Φ H K House

Second Year

Clark, Milton Jeremiah	*Brooks*	Farm Boarding House
Coffin, William Artemus	*Cumberland Mills*	A Γ P House
Cripps, Chesley Leland	*Camden*	Φ H K House
Fillebrown, Charles Augustus	*Waterford*	A Γ P House
Griffin, James Goodwin	*Lisbon Falls*	56 Park Street
Pratt, Lloyd Edgar	*Gorham*	Φ M Δ House
Sprowl, Earl Mills	*Appleton*	Stillwater
Wheeler, Samuel Edward	*Farmington*	Σ A E House

SHORT COURSE IN AGRICULTURE

Annas, George Levi	*Bangor*	H. H. Hall
Hilton, Robert Franklin	*Anson*	109 H. H. Hall
McTigue, Francis Hamilton	*Bangor*	5 New York Street, Bangor
McTigue, John Travis, Jr.	*Bangor*	5 New York Street, Bangor
Reed, Carleton Gardner	*Hermon*	Hermon
Smith, Frank Robert	*New Portland*	109 H. H. Hall
Smith, Perry Hartford	*Portland*	Mill Street
Spear, Herbert Leroy	*Waldoboro*	14 Chapman Street, Bangor
Sprowl, Ernest Oliver	*Searsmont*	Stillwater
Thompson, Dennis Carl	*Dexter*	Dexter
Tuttle, Frank Irving	*Dexter*	Dexter
Williams, Benjamin Titcomb	*Farmington*	6 University Place
Woodbury, Edward Wellington	*Bangor*	629 Main Street, Bangor

SPRING SEMESTER, 1936

New Registrations

Graduate Students

Drinkwater, Vivian Marie, B.A., Ed. Maine, 1931	*Brewer*	26 East Summer Street, Brewer
Keirstead, Kathryn Jean, B.A., Ed. Maine, 1931	*Westfield*	20 Oak Street, Old Town
Light, Elden Everett, B.S., Ch.Eng. Maine, 1931	*Orono*	9 Forest Avenue
Pratt, Horace Asa, B.S., Ce. Maine, 1930	*Orono*	23 Crosby Street
Spalding, Edward Lewis, B.S., Fy. Maine, 1935	*Newburyport, Mass.*	K Σ House
Trickey, Katherine Woodworth, B.A., Ed. Maine, 1932	*Bangor*	7 Fourth Street Place, Bangor

Seniors

Campbell, Janet, Ed.	*Brewer*	Colvin Hall
Corrigan, Ralph Jerome, Es.	*Millinocket*	Θ X House
Hargreaves, Reginald Lester, Es.	*New Bedford, Mass.*	40 Middle Street
Lord, Harold Nathan, Jr., Es.	*Westbrook*	Λ X Λ House
Steeves, Louise Elizabeth, Ed.	*Lincoln*	Balentine Hall

Juniors

Brown, Carolyn May, Eh.	*Skowhegan*	Balentine Hall
Higgins, Richard Eugene, Es.	*Bangor*	706 Broadway, Bangor
Mickalide, Harry Lambert, Ed.	*Farmington*	60 Park Street
Poole, Donald Glidden, Es.	*Vinalhaven*	Σ X House

Sophomores

Hamlin, Joseph Hamor, Arts	*Bar Harbor*	B Θ Π House
Raymond, John Munroe, Arts	*Peabody, Mass.*	77 Mill Street
Sylvester, Elizabeth, Ed.	*Saco*	Colvin Hall

Freshmen

McNulty, James Matthew, Jr., Ch.Eng.	*Milford*	Milford
Miller, Roy Leighton, Fy.	*Quincy, Mass.*	401 H. H. Hall
Mitchell, Lillian May, Arts	*Orono*	14 Park Street
Mutty, John Barry, Arts	*Bangor*	168 Grove Street, Bangor

Specials

Davies, Clare Winifred, Arts	*Orono*	8 Juniper Street
Davies, William Ellis, Arts	*Orono*	8 Juniper Street
Gotlieb, Hyman, Pa.	*Bangor*	121 Grove Street, Bangor
Hurd, Marguerite Littlefield, Arts	*Orono*	35 Forest Avenue

SUMMER SESSION, 1935

Students Registered for Graduate Credit

Aikins, Nelson Brown, B.S., Ed. Maine, 1923	*Old Orchard Beach*
Allen, Alden Watts, B.S., Ed. Colby, 1916	*Calais*
Allen, Joseph Drisko, B.S., Ed. Colby, 1929	*Providence, R. I.*
Alley, Eva Lucille, A.B., Ed. Colby, 1925	*Calais*
Ansley, Helen B., B.S. in Ed., Hy. Temple, 1933	*Philadelphia, Pa.*
Audibert, James Philip, A.B., Ed. Holy Cross, 1934	*Fort Kent*
Beal, Forest Clem, A.B., Hy. Bowdoin, 1927	*Bangor*
Benton, Dorothy Aleine, A.B., Eh. Cornell University, 1926	*Phelps, N. Y.*
Blaisdell, Brenna Hope, B.A., Fr. Maine, 1930	*Corinth*
Bonham, Eupha, A.B., Eh. Concord State Teachers' College, 1924	*Princeton, W. Va.*
Brockway, Philip Judd, B.A., Eh. Maine, 1931	*Orono*

Carman, Ruth, Ph.B., A.M., Eh. *Charleston, Ill.*
Wisconsin, 1913; Illinois, 1925

Carter, Mary Rich, B.A., Fr. *Thomaston*
Maine, 1931

Chambers, Kathleen Rosalind, A.B., Eh. *Ocean Park*
Barnard, 1929

Chase, Lester Hall, A.B., Eh. *Massena, N. Y.*
St. Lawrence, 1931

Chesterton, Allan Bowdoin, B.A., Ed. *Jonesport*
Maine, 1927

Coffin, Clarine Mildred, B.A., Eh. *Bangor*
Maine, 1932

Coffin, Victor Halford, B.A., Ed. *Bucksport*
Maine, 1931

Colby, Charlotte Jane, B.E., Ed. *Keene, N. H.*
Keene Normal, 1931

Cole, Kathryn Louise, A.B., Ed. *Punxsutawney, Pa.*
Allegheny, 1934

Coons, Erwin Leach, B.S., Ms. *Poughkeepsie, N. Y.*
Wesleyan University, 1930

Cox, Edwin Allerton, B.S. in Ed., Ed. *Middleboro, Mass.*
Boston University, 1932

Crook, John Lea, B.S., Ed. *Independence, Mo.*
Central Missouri State Teachers College, 1928

Crossland, Charles Edward, B.S., Es. *Orono*
Maine, 1917

Crozier, Edgar Raymond, B.A., Ed. *Brownville*
Maine, 1932

Cummings, Beatrice, B.S., Ed. *Lewiston*
Maine, 1934

Currier, Roland Ernest, B.S., Ed. *Mt. Vernon*
Bates, 1926

Daniel, Anna Margaret, A.B., Ed. *Lakeland, Fla.*
Florida State College, 1933

Davidson, Phyllis Hussey, A.B., Fr. *Guilford*
Wheaton, 1922

Davis, Margaret Louise, B.A., Ed. *Woodland*
Maine, 1933

Desjardins, Lionel Louis, B.A., Ed. *Old Town*
Maine, 1934

DeWitt, John Bailey, A.B., Ed. Colby, 1912	*Howland*
Douglas, Pauline Emma, B.S., Ed. Farmington Normal, 1930	*Brunswick*
Drinkwater, Vivian Marie, B.A., Ed. Maine, 1931	*Brewer*
Eismann, Ruth Abigail, B.S., A.B., Eh. Western Reserve, 1931; University of Michigan, 1932	*Erie, Pa.*
Farrington, Ervin S., B.S., Ed. New Hampshire, 1932	*Windsor, Conn.*
Field, George Marion, B.A., Hy. Maine, 1932	*Detroit*
Fifield, Marguerite Lois, B.E., Ed. Keene Normal, 1931	*Lebanon, N. H.*
Fowler, Orlan Clare, B.A., Ed. Salem College, 1932	*Clarksburg, W. Va.*
Gardy, Emma Barbara, B.S. in Ed., Ed. University of Pennsylvania, 1926	*Doylestown, Pa.*
Gellerson, Hilda Erdine, B.S., Ed. Bates, 1935	*Island Falls*
Gould, Gladys Marie, B.S., He. Maine, 1922	*Milo*
Graffius, Herbert Winfield, A.B., M.Ed., Ed. University of Michigan, 1914; Pittsburgh, 1934	*Pittsburgh, Pa.*
Hannah, Juanita, A.B., Eh. University of Oregon, 1931	*Lakeland, Fla.*
Hargreaves, George Milton, B.A., Hy. Maine, 1931	*New Bedford, Mass.*
Haskell, Ernest Edward, B.A., Ed. Maine, 1925	*North Anson*
Haskins, Reginald Holly, B.S., Ed. Bates, 1927	*Woodland*
Hathaway, Eleanor Augusta, A.B., Ms. Colby, 1930	*Columbia Falls*

Hofsted, Eugene Albert, LL.B., B.A., Ed. St. Lawrence, 1911; Maine, 1928	*Poughkeepsie, N. Y.*
Holmes, Carleton Jerome, B.S., Ed. Colby, 1933	*Lincoln*
Hughes, Arvilla Jane, A.B., Eh. Allegheny, 1934	*Punxsutawney, Pa.*
Husson, Chesley Haywood, B.S. in Ed., Ed. State Teachers College, Salem, 1926	*Bangor*
Johnson, Helene Evelyn, B.A., Py. Maine, 1930	*Bar Harbor*
Jones, Arthur Lewis, B.S. in Ed., Ed. Boston University, 1931	*Framingham, Mass.*
Judkins, Eshburn Oscar, B.S., Ed. Maine, 1923	*Wytopitlock*
Keirstead, Kathryn Jean, B.A., Ed. Maine, 1931	*Westfield*
Kelly, Kathryn Marie, B.A., Eh. Rosemont, 1932	*Phoenixville, Pa.*
Killam, Hazel Iola, B.S., Eh. Boston University, 1933	*East Boxford, Mass.*
Kimball, Donald Stevens, B.M.E., Ed. Northeastern, 1925	*New Haven, Conn.*
Kingsbury, Dorothy Florence, B.E., Ed. Keene Normal, 1930	*Keene, N. H.*
Kolouch, Joseph Frederic, B.S., M.S., Ed. Maine, 1926; 1927	*Mapleton*
Leighton, Cecil Victor, B.S., Ed. Maine, 1925	*Woodland*
Lewis, Merrell Elmer, B.A., Eh. Union, 1933	*Middleburgh, N. Y.*
Linscott, Edward Lyon, B.S. in Ed., Ed. Maine, 1933	*Bluehill*
Loring, Fred Perley, B.S., Fm. Maine, 1916	*Orono*
Lowell, Roger Dwight, A.B., Ed. Bowdoin, 1933	*Lee*
McCausland, Ina May, A.B., Ed. Colby, 1915	*Portland*

McDonough, Helen Irwin, B.S., Ed. Farmington Normal, 1930	*Bangor*
McIntosh, Carolyn Elizabeth, B.A., Ed. Maine, 1932	*Bangor*
McKenney, Leroy Nelson, B.A., Ed. Maine, 1920	*Duxbury, Mass.*
Mann, Bernard Jerome, B.A., Ed. Maine, 1933	*Bangor*
Milbourn, Mildred Bertha, B.A., Ms. Keuka College, 1928	*Great Bend, Pa.*
Mossler, Dorothy Edwina, B.A., Eh. Maine, 1925	*South Brewer*
Nagel, Chester Scott, B.O., Ed. Geneva, 1920	*Hooversville, Pa.*
Newell, Harry Severy, A.B., Pa. Bates, 1921	*Orono*
Noyes, Worth Lankton, B.S., Ed. Maine, 1929	*Stetson*
O'Brien, Helen Marie, A.B., Eh. Boston University, 1930	*West Somerville, Mass.*
Page, Helen Ross, B.S., Eh. Columbia, 1930	*Orland*
Parker, Dorothy Elizabeth, A.B., Ed. Bates, 1931	*South Windham*
Peck, Esther Alice, B.S. in Ed., Hy. Boston University, 1928	*Mount Carmel, Conn.*
Percival, Maple Ismay, B.A., Hy. Maine, 1929	*Dexter*
Pratt, Laura Estelle, B.Ped., Ed. Maine, 1925	*Troy*
Prescott, Herbert Leroy, A.B., Ed. Bowdoin, 1930	*Bangor*
Quinn, Marion Frances, B.S. in Ed., Ed. Maine, 1933	*Bangor*
Repp, Elma, B.S., He. Temple, 1931	*Swedesboro, N. J.*

Roach, Stephen Frank, M.E., Ed. *Jersey City, N. J.*
Stevens Institute of Technology, 1932

Sawyer, Kenneth Frederick, B.S., Ed. *East Millinocket*
Colby, 1932

Shibles, Perry Foster, B.S., Ed. *Dover-Foxcroft*
Colby, 1927

Shiro, Dorothy Thelma, B.A., Ed. *Old Town*
Maine, 1934

Shorey, Helen Elizabeth, B.A., Hy. *Dover-Foxcroft*
Maine, 1923

Small, Irving Wheelock, B.S. in Ed., Ed. *Bangor*
Maine, 1932

Small, Mabel Angeline, B.Ped., Ed. *Madison, Conn.*
Maine, 1922

Smith, Lucille Estelle, B.A., Ed. *Brewer*
Maine, 1921

Smith, Marian Hesse, A.B., Py. *Watertown, Mass.*
Tufts, 1926

Snow, Charles Augustus, B.A., Ed. *Fryeburg*
Maine, 1920

Spear, Ross Patterson, B.A., Ms. *East Corinth*
Maine, 1930

Stebbins, Arthur LeBaron, Jr., A.B., Eh. *Waterville*
Colby, 1931

Stebbins, Lucius Hazen, A.B., Eh. *Colchester, Conn.*
Colby, 1930

Stewart, Emily Raymond, A.B., B.S.E.,
Eh. *Portland*
Wheaton, 1933;
Lowell State Teachers' College, 1934

Stinneford, Jessie Sturtevant, B.A., Ed. *Hampton, Va.*
Maine, 1917

Tolles, Marian Elizabeth, A.B., Hy. *Terryville, Conn.*
Middlebury, 1931

Van Aller, Holger Harald, B.A., Ed. *Saratoga Springs, N. Y.*
Antioch, 1928

Veayo, Galen Irving, B.A., Ed. *Auburn*
Maine, 1931

Waldrop, Dorothy Lou, A.B., Ed. Southern College, 1933	*Lakeland, Fla.*
Welch, Evelyn Cecelia, B.S., Ed. Simmons, 1934	*Bangor*
Wescourt, Emanuel, A.B., Es. Syracuse, 1925	*Brooklyn, N. Y.*
White, Erma Elizabeth, B.A., Rl. Maine, 1929	*Monroe*
Wilder, Carroll Frederick, B.A., Ed. Maine, 1926	*Cape May Court House, N. J.*
Wilson, Blair Cochran, B.S., Ed. Maine, 1928	*Bath*
Wilson, Carolyn Stackpole, A.B., Py. Bates, 1926	*Bath*
Winslow, Daphne Marguerite, B.A., Ed. Maine, 1927	*Rockland*

OTHER SUMMER SESSION STUDENTS, 1935

Adams, Grace Virginia Keirn	*Lancaster, Pa.*
Aikins, Sara Leighton	*Old Orchard Beach*
Allen, Bertrand Adair, B.S. Ithaca, 1933	*Brownville Junction*
Allen, Hilda Marie	*North Sedgwick*
Anderson, Dora Mae	*Mars Hill*
Anderson, Lily	*Derby*
Bagnulo, Irene Anna	*Medford, Mass.*
Baker, Mary Josephine	*Woodcliff, N. J.*
Balano, Jasper Moulton	*West New Brighton, Staten Island, N. Y.*
Baldwin, Frank Grayson, Jr.	*Farmville, Va.*
Baldy, Frederic Carroll, B.A., LL.B. Minnesota, 1895, 1898	*Southborough, Mass.*
Barrows, Barbara	*Glen Ridge, N. J.*
Barrows, Betty	*Glen Ridge, N. J.*
Bateman, Robert Taylor	*Bar Harbor*
Beal, Beulah	*Jacksonville, Fla.*
Beggs, Anne	*New York, N. Y.*
Berger, Robert Seidel, B.A. College of the City of New York, 1930	*Brooklyn, N. Y.*

Berry, George Reed	*Stratton*
Berry, John M.	*Rochester, N. Y.*
Boner, Gladys Alice	*Philadelphia, Pa.*
Bonnell, Estelle Marion, A.B. Vassar, 1915	*New York, N. Y.*
Borland, Helen Louise, Litt.B. Grove City, 1929	*Rockland, Pa.*
Bowdoin, Abbie Thurlow	*Bethel*
Bowdoin, Emery Ray, B.S. Maine, 1910	*Bethel*
Bowley, Elsie Evelyn	*Milo*
Brown, Edmund Earle	*Bangor*
Brown, Ralph Lawrence	*Jonesport*
Bruhns, Alma	*Philadelphia, Pa.*
Bryce, Robert Sutherland	*Rochester, N. Y.*
Buck, Madelene Olive	*Stetson*
Bucknam, George Wilson	*Waterville*
Buker, Helen Louise	*Auburn*
Burke, Franklin Martin	*Bangor*
Burke, M. Dorothy	*Bangor*
Burke, Roger Wallace	*Portland*
Burr, Lois Adelaide, B.A. Maine, 1930	*Old Town*
Bussell, Catharene Anne	*Old Town*
Buxton, Violet Libby	*Fort Fairfield*
Caldwell, Hugh Standish	*Biddeford*
Campbell, Janet	*Brewer*
Capone, Elsie Constance	*Somerville, Mass.*
Carter, Bertha Wheeler	*Etna*
Cedrone, Bernice Rose	*Norwich, Conn.*
Chace, Arnold Buffum, III	*Hyannis, Mass.*
Chankin, George Joseph	*Brooklyn, N. Y.*
Chapman, Miriam	*South Paris*
Chase, Mabel Laura	*Bar Harbor*
Chase, Richard Getchell	*Limestone*
Christ, Jeannette Elizabeth	*South Hadley, Mass.*
Church, Grace UpDegrove, LL.B. Portia Law, 1932	*Stockton Springs*
Churchill, Thomas William	*Kezar Falls*
Circle, Edith, A.B., M.A. Adelphi, 1926; Middlebury, 1930	*Arlington, N. J.*

Clapp, Elizabeth Eschbach, B.S. Pennsylvania State, 1905	*Pittsburgh, Pa.*
Clark, Parah Eugenia, A.B. Wesleyan College, 1920	*Kissimmee, Fla.*
Clark, Sarah Edwina, B.S. Wesleyan College, 1923	*Kissimmee, Fla.*
Clark, Virginia Evelyn, A.B. Southern College, 1929	*Lakeland, Fla.*
Clayton, Fred Merch	*Presque Isle*
Cloos, Helen Fox, A.B. Pittsburgh, 1932	*Crafton, Pa.*
Cocke, William Ruftin Cokman, Jr.	*Norfolk, Va.*
Coffey, Elsie Mildred	*Easton*
Cohen, Irving	*Brooklyn, N. Y.*
Colbath, Geraldine Lucille, A.B. Colby, 1933	*Orono*
Colwell, Gladys Mae	*Hancock*
Conley, Mary Louise	*Lewiston*
Conley, Olive Elizabeth	*Ellsworth*
Connolly, Margaret Mossman	*Norwich, Conn.*
Connor, Dorinda Elizabeth	*Bangor*
Corcoran, Patrick J.	*New London, Conn.*
Corrigan, Ralph Jerome	*Millinocket*
Craft, Rhoda Frances, B.S. Iowa State, 1935	*Old Town*
Crandlemire, Mary Pauline	*Vanceboro*
Crane, Frederick Beach	*Afton, N. Y.*
Creamer, Mildred French	*Bangor*
Crocker, Harold Keene	*Vanceboro*
Cromwell, Robert Floyd, A.B. Western Maryland, 1922	*Cambridge, Md.*
Cronkite, Clayton Russell	*Skowhegan*
Crook, Daisy Leigh, A.B., B.S. Central Missouri State Teachers College, 1929	*Independence, Mo.*
Crouse, Margaret Eleanor	*Crouseville*
Crowley, Elizabeth Anne	*Lewiston*
Culver, Lola Murch	*Jacksonville, Fla.*
Currie, Eleanor Frances	*Hartland*
Cushing, Marion Wynne	*Freeport*
Cutler, Joseph Linwood	*Philadelphia, Pa.*
Daigle, Claire Delia	*Bangor*
Dane, Dorothy	*Skowhegan*

Danforth, Roger Clarke	*Castine*
Dansie, Thomas Charles	*South Gardiner*
Dascombe, Charles Burr	*Livermore Falls*
Davenport, Constance Lucille	*Winter Garden, Fla.*
Dennis, Alfreda	*Bangor*
Diamon, David Lester	*Portland*
Dickerson, Lorene Grace	*Jersey City, N. J.*
Diemand, John Anthony, Jr.	*Wynnewood, Pa.*
Dinsmore, Ernest Lowell	*Queens Village, L. I., N. Y.*
Doe, Harold Oliver, B.A. Maine, 1933	*Bangor*
Dow, Margaret	*Presque Isle*
Doyle, Mary Veronica	*Fort Fairfield*
Draper, Louise	*Montclair, N. J.*
Drayer, Helen Eleanor	*East Syracuse, N. Y.*
Drisko, Frank Eugene	*Harrington*
Drummond, Rutherford Morrill	*Portland*
Dubay, Marie Dufour	*Madawaska*
Dunham, Esther Joyce	*Oakland*
Dunn, Merrita Lizzie, B.A. Maine, 1933	*Bangor*
Durrell, Flora Edythe, A.B. Smith, 1922	*Brooklyn, N. Y.*
Eastman, Eleanor	*Wollaston, Mass.*
Edwards, Richard Stephen	*Malden, Mass.*
Elder, James Lanphere	*Cincinnati, Ohio*
Elwell, Avis Bernice	*Sherman Mills*
Fairbanks, Isabelle Daggett, A.B. Colby, 1933	*Houlton*
Farnham, Evangeline Phillips	*Bucksport*
Fellows, Frank	*Bangor*
Fifield, Charlotte Osgood	*Orono*
Files, Mabel Lena	*Kezar Falls*
Flynn, James Francis	*Waltham, Mass.*
Fowler, Dwight Arnett	*Bridgeport, W. Va.*
Fowler, Jack Augustus, B.Sc. New Brunswick, 1932	*Cornwall, Ontario*
Fowler, Thomas Alton	*Bangor*
Franz, Bruce Johnston	*Baltimore, Md.*
Frea, Minnie Agatha	*Lake Bluff, Ill.*

Froling, Doris Josephine	*Arlington, N. J.*
Fuhs, Martha	*Salem, N. J.*
Gaetz, Leonard Halley	*White Plains, N. Y.*
Gaffney, Richard Vaughan	*Portland*
Gage, Frederic Warren	*Plattsburg, N. Y.*
Gallagher, Theodore	*Newtonville, Mass.*
Gerhard, Carl	*Holley, N. Y.*
Giles, Lloyd Burton	*Belmont, Mass.*
Gillen, Madeline Mary, B.A. Maine, 1926	*Bangor*
Gilliland, William Lester, B.S., M.S., Ph.D. University of Washington, 1920, 1921; Massachusetts Institute of Technology, 1925	*Orono*
Gillis, Leona Achorn, A.B. Colby, 1910	*Milo*
Golden, Evelyn Gertrude	*Bangor*
Gonyea, Mary Rita	*Plattsburg, N. Y.*
Goodness, Harold	*Watertown, N. Y.*
Goodwin, Merle Stanley	*East Corinth*
Graham, Pauline Alwilda	*Hampden Highlands*
Gray, Eleanor Deane	*Old Town*
Gray, Rhona Roberta	*Bangor*
Gray, Samuel Braley, Jr.	*Old Town*
Griffin, Marjorie Lindsay, B. R. E. Boston University, 1928	*Portland*
Gustin, Dorothy Ida	*Bangor*
Hall, Hazel Marguerite	*Whiting*
Hall, Roscoe Bowers	*West Baldwin*
Hardison, Louise Arey	*East Orange, N. J.*
Harris, Pearl Vida	*Cranston, R. I.*
Harvey, Evelyn Mae	*Patten*
Harvey, Ilga Frances, A.B., LL.B. Wesleyan University, 1906; American Extension University, 1934	*New Britain, Conn.*
Hasbrook, Clinton Frederick, B.S. Vermont, 1917	*Hartford, Conn.*
Haskell, Stuart Phelps	*Lee*
Hatch, Shirley Libby	*Shirley, Mass.*
Hearne, Mary Virginia	*Bayside*
Heck, Helen Henderson	*Glenside, Pa.*

Hedin, Constance Lowell	*Bangor*
Henderson, Elsie May	*Norwell, Mass.*
Hice, Cecilia Mae	*Smyrna Mills*
Higgins, Barbara, B.S. Maine, 1930	*Dennysville*
Higgins, Priscilla Beatrice, B.S. Boston University, 1931	*Mapleton*
Hill, Grace Deyerle	*Morgantown, W. Va.*
Hill, Ruth Alice	*Oquossoc*
Hill, Thomas Mason	*Bucksport*
Hillabrand, Grace A.	*Bronxville, N. Y.*
Hinckley, Mildred Chase	*Bluehill*
Hoffman, Miriam Ethne	*Cranford, N. J.*
Hollister, Lillian Dwight	*Alhambra, Calif.*
Hooper, Frederic William, Jr., A.B., A.M. Dartmouth, 1930; 1934	*Millbury, Mass.*
Houlihan, John Sheehan	*Bangor*
Housel, Louise Pauline	*Audubon, N. J.*
Humphreys, Miriam Nesbitt	*Philadelphia, Pa.*
Hurd, Frances Mansfield	*Bangor*
Irish, Kathryn Louise	*Haynesville*
Jacques, Charles Wesley, Jr.	*Bangor*
Jellison, Howard Tozier	*Surry*
Jenkins, Arland, A.B. Bates, 1928	*Danforth*
Johnson, Beulah Dorothy	*Brooklyn, N. Y.*
Johnston, Mary Lois	*Glenbrook, Conn.*
Jones, Errold Gordon	*Brownville*
Jones, Jane Amanda	*Milo*
Jones, Merle Sewall	*Weeks Mills*
Jones, Serena Frances, B.R.E., A.M. Boston University, 1925, 1928	*Portsmouth, N. H.*
Jordan, Darrel Francis	*Orono*
Kelley, Anne Marguerite	*Walpole, Mass.*
Kent, Frank Holmes	*Wytopitlock*
Keyes, Carolyn Hill	*West Pembroke*
Killman, Margaret	*Dexter*
Kline, Jane, A.B. Pittsburgh, 1935	*Pittsburgh, Pa.*

Knapp, Leda Burrill	*Old Town*
Knight, Frances Silsby	*Derby*
Lancaster, Helen Frances	*Old Town*
Landon, Miriam	*Bangor*
Langille, Ranald	*York Village*
LaVigne, Estella Mary	*Republic, Mich.*
Leighton, Lillian May	*Pembroke*
Leighton, Melvin Theodore	*Bangor*
Levenseller, Gorham Henry	*Bangor*
Levenson, Roger	*Bangor*
Liscomb, Mary Elizabeth	*Bar Harbor*
Livingstone, Thelma Turl	*South Hadley, Mass.*
Lombardi, Philomena Catherine	*Somerville, Mass.*
Lord, Frederick Clarence, Jr.	*Saco*
Lowe, Charles Herman	*Camden*
Lund, Marion Gertrude	*Malden, Mass.*
Lyons, Stephen Howard	*Scarboro*
McCarn, Emily Rosamond	*Chestnut Hill, Mass.*
McCarthy, M. Elizabeth	*Bangor*
McClellan, Virginia Hetty	*Salineville, Ohio*
McCloskey, Francis Hartley	*Howland*
McClure, E. Isabella, B.S. in Ed. Temple, 1933	*Philadelphia, Pa.*
McFaddin, Margaret Neill	*Glenbrook, Conn.*
McGuire, Mildred Eddy	*Bangor*
McLaughlin, Ruth Helen	*Washburn*
MacDonald, Colleen Eleanor	*East Millinocket*
MacFerran, Barbara Herbert	*Schenectady, N. Y.*
Mack, Fred William, B.S., A.B., A.M. Carnegie Institute of Technology, 1913; Pittsburgh, 1920; Duquesne, 1923	*Pittsburgh, Pa.*
Maitland, Alexander	*Thompson, Conn.*
Makela, Esther	*Waukegan, Ill.*
Makela, Kathryne	*Waukegan, Ill.*
Malone, Anna Patricia	*Fall River, Mass.*
Mann, Bernard Freeman, Jr.	*Auburn*
Marion, Dorothy Sara	*Lancaster, Pa.*
Marr, James Archibald	*Millinocket*
Matheson, Murdock Scribner, B.S. Maine, 1932	*Leominster, Mass.*

May, Madeleine Elizabeth	*Brooklyn, N. Y.*
Mears, Natalie Maudsley	*Essex, Mass.*
Merrill, Edward Osgood	*Orono*
Merritt, Ruth Lydia	*Presque Isle*
Meyer, Lester Jacob	*Brookline, Mass.*
Miles, Calista Mary, B.A. Minnesota, 1919	*Northfield, Minn.*
Miller, Irene May	*Pittsburgh, Pa.*
Monroe, Roy Howard	*Milo*
Moody, Paul Warren	*Gorham*
Morgrage, Russell Irvin	*Bangor*
Morrison, George Ira	*Milford, Conn.*
Morrison, George Ronald	*Minersville, Pa.*
Mosher, Wendall Earl, B.S. Maine, 1929	*Orono*
Motz, Rolf Brown	*Mount Desert*
Munson, Margaret Glenn	*Windham, N. Y.*
Nagel, Emily Maude	*Hooversville, Pa.*
Nerlich, Alice, A.B. Harris Teachers College, 1930	*St. Louis, Mo.*
Newman, Mary Burberry, B.S. State Teachers College, Buffalo, 1934	*Buffalo, N. Y.*
Nichols, Margaret Crawford	*Audubon, N. J.*
Nickerson, Alvah Lewis	*Damariscotta*
Nielsen, Edith Marie	*Jersey City, N. J.*
Noble, Katherine	*Calais*
Oakes, Maurice Andrew	*West Enfield*
Odlin, Ruth Stuart	*Fairfield*
O'Donnell, Helen	*Waterville*
Orcutt, Carolyn Silsby	*Amherst*
Osgood, Beulah Elizabeth, B.S., A.M. Maine, 1926; Columbia, 1931	*Orono*
Owen, John Woodward, A.B., A.M. University of Pennsylvania, 1923, 1927	*Maple Shade, N. J.*
Page, Edna Mae	*Orland*
Palmer, Martha Virginia	*Orono*
Parsons, Charles William	*East Millinocket*
Patrick, Mildred Jane	*Salem, N. J.*
Patterson, Flora Studley	*Westfield, Mass.*

Patterson, Jean	*Westfield, Mass.*
Patterson, Raymond Garfield, Ph.B., M.A. Syracuse, 1909, 1914	*Westfield, Mass.*
Paul, Bertha Lavina	*Skowhegan*
Peck, Helen Estelle	*Mount Carmel, Conn.*
Perkins, Raymond Everett	*North Castine*
Perry, Mary Katherine	*Orono*
Phillips, Florence Mildred	*East Hampton, L. I., N. Y.*
Phinney, Elise Armitage	*Detroit, Mich.*
Pierce, David Purington	*Guilford*
Pike, Sarah Comfort	*East Woodstock, Conn.*
Plummer, Grace Mildred	*Salem, N. J.*
Pochodowicz, Stanley Joseph	*New Haven, Conn.*
Pooler, William James	*Bangor*
Puffer, Roberta	*Columbia*
Putnam, Ruth	*New York, N. Y.*
Quint, George LaForrest	*Hodgdon*
Raby, Adrienne Marie, A.B., LL.B. Smith, 1914; American Extension University, 1933	*New Brntain, Conn.*
Rafter, Constance Elizabeth	*Gardiner*
Randall, Helena Hallowell	*Dennysville*
Randolph, Frances Fitz, B.S. Beaver, 1932	*Lancaster, Pa.*
Reid, Mary Louise	*Bangor*
Reilly, Margaret Bernadette	*Jersey City, N. J.*
Richardson, Doris Jeanette	*Bangor*
Rideout, Darthea Veazie	*Bangor*
Robertson, Erma Llewellya	*Sherman Station*
Robinson, Helen Alta	*Bangor*
Robinson, Glenn Meredith	*Bangor*
Rosen, Henry, A.B. Dartmouth, 1934	*Gloucester, Mass.*
Ross, John Hart	*Belmont, Mass.*
Ross, Muriel Evelyn	*Sherbrooke, Quebec*
Russell, Sarah Louise	*Ellsworth*
Ruuska, Edwin Michael	*Fitchburg, Mass.*
Salisbury, Roy Stephen	*Northeast Harbor*
Samuel, George Rankin	*Springfield, Mass.*
Sargent, Betsy Ross	*Marbledale, Conn.*

Sargent, Christine Helen	*Glen Ridge, N. J.*
Sawyer, Clara Elizabeth	*Milbridge*
Saylor, Grace Ann	*Lancaster, Pa.*
Scamman, William Francis, B.A., M.A. Maine, 1908, 1927	*Orono*
Scammon, Floyd Grandon	*Orono*
Scher, Nathan	*New York, N. Y.*
Schiro, Elizabeth Madeline	*Bangor*
Seavey, Barbara Eunice	*Bangor*
Sensiba, Mercedes Grace	*Waukegan, Ill.*
Sewall, Margaret Grazebrook	*Old Town*
Sheehy, Maurice James	*Rumford*
Sherman, Janet Bickford	*Belfast*
Siira, Impi Eugenia	*Centerville, Mass.*
Simonen, Paul Armas, B.S. Michigan College of Mines, 1932	*Munising, Mich.*
Sisler, William John	*Yonkers, N. Y.*
Sleeper, Charles Willis	*Orono*
Slocum, Grace Harriet	*Houlton*
Smith, Doris Garlock	*Clifton Springs, N. Y.*
Smith, Lyndall Tracy	*Skowhegan*
Smith, Marcia Gertrude	*Brewer*
Spear, Douglas	*Philadelphia, Pa.*
Steeves, Louise Elizabeth	*Lincoln*
Stevens, Carl Mantle	*East Falls Church, Va.*
Stevens, Russell Bradford	*East Falls Church, Va.*
Story, Raymond Henry	*Gardiner*
Strout, Barbara Lucille	*Milbridge*
Strout, Francis Leroy	*Milbridge*
Swallow, Effie Crosby	*Oakfield*
Temple, Norma Louise	*East Syracuse, N. Y.*
Testa, Vivian Marie	*Bar Harbor*
Thaxter, Elizabeth Taylor	*Brookline, Mass.*
Thistle, Ruth Alma	*Milo*
Thompson, Mildred Ada	*Bristol*
Thompson, Samuel Adams	*Corinna*
Thompson, William Lawrence, B.A., M.A. Maine, 1934, 1935	*Portland*
Thurlow, Myra Dunn	*Windham*
Tilton, Bazil Roy	*Cornwall, Ontario*
Towle, Margaret Mary Jacqueline	*Lynn, Mass.*
Tracy, Dorothy Liberty	*Brewer*

Tracy, Lillian Evelyn	*Bangor*
Travers, Hugh Francis	*Waterville*
Treworgy, Anne Florence, B.S. Colby, 1917	*Surry*
Tripp, Lelia Knowles	*Salsbury Cove*
Tripp, Lena Muriel	*Salsbury Cove*
True, Albert Sidney	*Cornwall, Ontario*
Tuck, Alonzo Henry	*Deer Isle*
Tucker, Annabelle	*Philadelphia, Pa.*
Tull, Helen Elizabeth	*Stockton, Md.*
Viner, Leo	*Bangor*
Wallace, Eleanor Eastman	*Littleton, N. H.*
Wardwell, Ethel Lee	*Dark Harbor*
Wardwell, Herman Howard, B.S. Bates, 1928	*Buckfield*
Waterhouse, Frank Chester, B.A. Maine, 1933	*Old Town*
Watt, Arthur, B. of Chem. Eng. Northeastern, 1928	*North Easton, Mass.*
Weaver, George Randolph	*Medway*
Webber, Lewis Ervin	*Kingfield*
Webber, Villa May	*Rockland, Mass.*
Weinert, Frances Carol, B.S. in Ed. University of Pennsylvania, 1932	*Philadelphia, Pa.*
Weltner, Gladys Louise	*Jersey City, N. J.*
Wentworth, Marjorie Lee	*Bangor*
West, Clara Elora	*Bar Harbor*
West, James Raymond	*Bangor*
Weston, Susan Houghton, A.B. Colby, 1906	*Wilton*
Weymouth, Frank Leslie Day, A.B. Clark, 1925	*Boston, Mass.*
White, David Fletcher	*Augusta*
White, Nathan William	*Presque Isle*
Whitman, William Parsons	*Belfast*
Williams, Alice Eudora	*Longmeadow, Mass.*
Williams, Sara Jane	*Pittsburgh, Pa.*
Wood, Frank Theodore	*Shelburne Falls, Mass.*
Wooster, Lillian Ethne	*Belfast*
Wright, Flora MacMillan	*Northfield, Minn.*
Yerrington, Ann Adams	*Sabattus*

General Summary

1935-1936

FACULTY

President	1
Emeritus Deans and Professors	4
Deans and Directors	10
Professors	44
Associate Professors	23
Assistant Professors	44
Instructors	41
Lecturers	3
Critic Teachers	7
Graduate Fellows and Assistants	9
Miscellaneous Assistants	13
Agricultural Experiment Station Staff	33*
Agricultural Extension Service Staff	62
Total	294

By Divisions

College of Agriculture	46
College of Arts and Sciences	69
School of Education	12
College of Technology	45
Officers Common to All Colleges	26
Agricultural Experiment Station	34*
Agricultural Extension Service	62
Total	294

STUDENTS

	Total	Men	Women
Graduates	41	27	14
Seniors	285	202	83

* Does not include six names counted under the College of Agriculture.

Juniors	289	212	77
Sophomores	372	281	91
Freshmen	392	273	119
Specials	39	27	12
Upperclass students conditioned for admission	7	7	—
Two-Year Agriculture			
1st year	14	14	—
2nd year	8	8	—
Short Course	13	13	—
Total	1460	1064	396
Summer Session	473	194	297
Grand Total (omitting duplicates in Summer Session)	1886	1229	657

Classification by Colleges

Graduate Study	41	27	14
College of Agriculture	449	309	140
College of Arts and Sciences	557	334	223
College of Technology	371	371	—
School of Education	42	23	19
	1460	1064	396

Candidates for Degrees

Graduate Study	39	25	14
College of Agriculture	409	270	139
College of Arts and Sciences	534	321	213
College of Technology	362	362	—
School of Education	40	22	18
	1384	1000	384

Classification by Residence

Maine, by counties:	
Androscoggin	52
Aroostook	123
Cumberland	174

Franklin	28	
Hancock	94	
Kennebec	81	
Knox	50	
Lincoln	21	
Oxford	50	
Penobscot	459	
Piscataquis	40	
Sagadahoc	29	
Somerset	40	
Waldo	43	
Washington	63	
York	78	
Maine		1425
Massachusetts		211
New York		63
Connecticut		43
New Jersey		36
Pennsylvania		34
New Hampshire		12
Florida		10
Rhode Island		6
Illinois		5
Vermont		5
Virginia		5
Maryland		4
West Virginia		4
Michigan		3
Missouri		3
Minnesota		2
Ohio		2
Arizona		1
California		1
Indiana		1
Wisconsin		1
Canada		8
China		1
		1886

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