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THE MAINE BULLETIN

Vol. XLIII MARCH 20, 1941 No. 11

University of Maine

Orono, Maine

Catalog Number with Records of the Sessions of 1940-41

Announcements for the Sessions of 1941-42

THE UNIVERSITY PRESS
ORONO, MAINE
1941

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1941

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
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JANUARY

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DECEMBER

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Calendar for 1940-41

Fall Semester

		1940
Entrance Examinations	Monday, Tuesday	Sept. 9, 10
First day of Freshman Week, Registration	Wednesday, 8-12 M., 1:30-3 P.M.	Sept. 11
Registration of Transfer Students	Monday, 10-12 M., 2-3 P.M.	Sept. 16
Registration of Upperclassmen	Tuesday, 8-12 M., 1:30-3 P.M.	Sept. 17
Classes begin	Wednesday, 8 A.M.	Sept. 18
Freshman reports due	Friday	Oct. 18
Mid-semester reports due	Tuesday	Nov. 19
Thanksgiving Recess begins	Wednesday, 11:30 A.M.	Nov. 27
Thanksgiving Recess		
Instruction resumed	Monday, 8 A.M.	Dec. 2
Christmas Recess begins	Friday, 11:30 A.M.	Dec. 20
Christmas Recess		
		1941
Instruction resumed	Tuesday, 8 A.M.	Jan. 7
Preliminary Registration, Arts and Sciences	Monday-Saturday	Jan. 13-18
Classes end	Wednesday, 5:05 P.M.	Jan. 22
Final Examinations begin	Thursday, 8 A.M.	Jan. 23
Examinations end; Semester ends	Friday	Jan. 31

Spring Semester

Registration	Saturday, 8-12 M.	Feb. 1
Classes begin	Monday, 8 A.M.	Feb. 3
Washington's Birthday, a holiday	Saturday	Feb. 22
Comprehensive Examinations, Arts and Sciences	Saturday	March 15
Inspection Trip, Technology	Monday-Saturday	March 17-22
Sophomore Qualifying Examinations, Technology	Friday-Saturday	March 21-22
Spring Recess begins	Saturday, 11:30 A.M.	March 22
Spring Recess		
Mid-semester reports due	Tuesday	March 25
Instruction resumed	Tuesday, 8 A.M.	April 1
Open House, University	Saturday	April 19
Oral Comprehensive Examinations, Arts and Sciences	Monday-Saturday	April 21-26
Preliminary Registration, Arts and Sciences	Monday-Saturday	May 12-17
Entrance Examinations	Monday-Wednesday	May 19-21
Classes end	Monday, 5:05 P.M.	May 26
Final Examinations begin	Tuesday, 8 A.M.	May 27
Examinations end	Wednesday	June 4
Seventieth Annual Commencement		
Class Day	Friday	June 6
Alumni Day	Saturday	June 7
Baccalaureate Service	Sunday	June 8
Commencement Exercises	Monday	June 9

Summer Camp

Civil Engineering and Forestry Camp begins	Tuesday	June 10
Camp ends	Saturday	July 19

Summer Session

Registration	Monday, 8-12 M., 1:30-4:30 P.M.	July 7
Classes begin	Tuesday	July 8
Session ends	Friday, 12 M.	Aug. 15

Calendar for 1941-42

Fall Semester

		1941
Entrance Examinations	Monday, Tuesday	Sept. 8, 9
First day of Freshman Week, Registration	Wednesday, 8-12 M., 1:30-3 P.M.	Sept. 10
Registration of Transfer Students	Monday, 10-12 M., 2-3 P.M.	Sept. 15
Registration of Upperclassmen	Tuesday, 8-12 M., 1:30-3 P.M.	Sept. 16
Classes begin	Wednesday, 8 A.M.	Sept. 17
Freshman reports due	Friday	Oct. 17
Mid-semester reports due	Tuesday	Nov. 18
Thanksgiving Recess begins	Wednesday, 11:30 A.M.	Nov. 26
Thanksgiving Recess		
Instruction resumed	Monday, 8 A.M.	Dec. 1
Christmas Recess begins	Friday, 11:30 A.M.	Dec. 19
Christmas Recess		
		1942
Instruction resumed	Tuesday, 8 A.M.	Jan. 6
Preliminary Registration, Arts and Sciences	Monday-Saturday	Jan. 12-17
Classes end	Wednesday, 5:05 P.M.	Jan. 21
Final Examinations begin	Thursday, 8 A.M.	Jan. 22
Examinations end; Semester ends	Friday	Jan. 30

Spring Semester

Registration	Saturday, 8-12 M.	Jan. 31
Classes begin	Monday, 8 A.M.	Feb. 2
Washington's Birthday, a holiday	Monday	Feb. 23
Comprehensive Examinations, Arts and Sciences	Saturday	March 14
Inspection Trip, Technology	Monday-Saturday	March 16-21
Sophomore Qualifying Examinations, Technology	Friday-Saturday	March 20-21
Spring Recess begins	Saturday, 11:30 A.M.	March 21
Spring Recess		
Mid-semester reports due	Tuesday	March 24
Instruction resumed	Tuesday, 8 A.M.	March 31
Open House, University	Saturday	April 18
Oral Comprehensive Examinations, Arts and Sciences	Monday-Saturday	April 20-25
Preliminary Registration, Arts and Sciences	Monday-Saturday	May 11-16
Senior Comprehensive Examinations, Technology	Saturday and Monday	May 23 and May 25
Entrance Examinations	Monday-Wednesday	May 18-20
Classes end	Monday, 5:05 P.M.	May 25
Final Examinations begin	Tuesday, 8 A.M.	May 26
Examinations end	Wednesday	June 3
Seventy-First Annual Commencement		
Class Day	Friday	June 5
Alumni Day	Saturday	June 6
Baccalaureate Service	Sunday	June 7
Commencement Exercises	Monday	June 8

Summer Camp

Civil Engineering and Forestry Camp begins	Tuesday	June 9
Camp ends	Saturday	July 18

Summer Session

Registration	Monday, 8-12 M., 1:30-4:30 P.M.	July 6
Classes begin	Tuesday	July 7
Session ends	Friday, 12 M.	Aug. 14

Board of Trustees

Edward Everett Chase, B.A., President	Portland
Term expires January 22, 1943	
Thomas Edward Houghton, Clerk	Fort Fairfield
Term expires May 6, 1941	
Bertram Everett Packard, B.A., LL.B., Ed.D., ex officio	Augusta
Frank Porter Washburn	Perry
Term expires July 6, 1946	
Eugene Boutelle Sanger, Ph.B., M.D., F.A.C.S.	Bangor
Term expires November 20, 1947	
Raymond Webber Davis, B.A.	Guilford
Term expires July 18, 1942	
William Stockdale Nutter	Sanford
Term expires June 5, 1943	
Harold Merle Pierce, B.A.	Bangor
Term expires August 2, 1942	
Mrs. Maybelle H. Brown	Waterville
Term expires November 20, 1947	

Executive Committee, Davis, Pierce, Washburn

Officers of Administration

OFFICERS OF THE UNIVERSITY

PRESIDENT. Arthur Andrew Hauck, Alumni Hall; Campus.
DEAN OF MEN. Lamert Seymour Corbett, Alumni Hall; 166 College Road.
DEAN OF WOMEN. Edith Grace Wilson, 8 Stevens, South; 16 University Place.
REGISTRAR. James Adrian Gannett, Alumni Hall; 166 Main Street.
ASSISTANT REGISTRAR. Evelyn Taylor, Alumni Hall; Stillwater.
RECORDER. Addie Matilda Weed, Alumni Hall; Veazie.
DIRECTOR OF ADMISSIONS. Percy Fremont Crane, Alumni Hall; 32 Forest Avenue.
LIBRARIAN. Louis Tappe Ibbotson, Library; University Place.
*TREASURER. Frederick Shaw Youngs.
BUSINESS MANAGER AND ACTING TREASURER. Henry Leroy Doten, Alumni Hall; 356 College Road.
ACCOUNTANT. Irving Pierce, Alumni Hall; 34 Sixth Street, Old Town.
STEWARD. William Carl Wells, Alumni Hall; 60 Oak Street.
ALUMNI SECRETARY AND EXECUTIVE SECRETARY, ENDOWMENT AND DONATIONS. Charles Edward Crossland, 11 Fernald Hall; 5 Riverdale.
DIRECTOR OF PLACEMENT BUREAU AND ASSISTANT ALUMNI SECRETARY. Philip Judd Brockway, 12 Fernald Hall; 90 Forest Avenue.
CATALOG EDITOR. John Raymond Crawford, 18 Stevens, South; 6 Riverdale.

OFFICERS OF DIVISIONS OF THE UNIVERSITY

COLLEGE OF AGRICULTURE. Arthur Lowell Deering, Dean, 16 Winslow Hall; 160 College Road.
COLLEGE OF ARTS AND SCIENCES. Edward Jones Allen, Dean, 100 Stevens Hall; 167 Main Street.
SCHOOL OF EDUCATION. Olin Silas Lutes, Dean, 24 Stevens, South; College Road, Stillwater.
COLLEGE OF TECHNOLOGY. Paul Cloke, Dean, 12 Wingate Hall; 49 Forest Avenue.

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* On leave of absence 1940-41.

Graduate Study. Roy Merle Peterson, Dean, 3 Stevens, North; 29 Bennoch Street.

Summer Session. Roy Merle Peterson, Director, 3 Stevens, North; 29 Bennoch Street.

Agricultural Extension Service. Arthur Lowell Deering, Director, 16 Winslow Hall; 160 College Road.

Maine Agricultural Experiment Station. Fred Griffee, Director, Holmes Hall; University Place.

Technology Experiment Station. Paul Cloke, Director, 12 Wingate Hall; 49 Forest Avenue.

OF THE DEPARTMENTS

Agricultural Economics and Farm Management. Professor Merchant, 36 Winslow Hall; 17 Spencer Lane.

Agricultural Education. Professor H. S. Hill, 22 Agricultural Engineering Building; 57 College Road.

Agronomy and Agricultural Engineering. Professor Chucka, 2 Agricultural Engineering Building; 65 Forest Avenue.

Animal Industry. Professor Cairns, 26 Rogers; 6 University Place.

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

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

Botany and Entomology. Professor Steinmetz, 24 Coburn Hall; 36 College Road.

Chemistry and Chemical Engineering. Professor Bradt, 329 Aubert Hall; 204 Broadway, Bangor.

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

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

Classics. Professor L. F. Smith, 110 Stevens Hall; 102 North Main Street.

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

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

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

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

English. Professor Ellis, 200 Stevens Hall; 29 Park Street.

Entomology (Agricultural Experiment Station). Professor Lathrop, Holmes Hall; 139 Main Street.

Forestry. Professor Demeritt, 24 Winslow Hall; 15 University Place.

German. Professor Drummond, 325 Stevens Hall; 61 Bennoch Street.

History and Government. Professor E. F. Dow, 145 Stevens Hall; 65 College Road.

Home Economics. Professor Greene, 24 Merrill Hall; 6 University Place.

Horticulture. Professor Waring, Horticulture Greenhouse; 24 University Place.

Mathematics and Astronomy. Professor Willard, 130 Stevens Hall; 100 Bennoch Street.

Mechanical Engineering. Professor Watson, 16 Lord Hall; University Place.

Mechanics. Professor Weston, 1 Fernald Hall; College Road, Stillwater.

Military Science and Tactics. 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 C. E. Bennett, 200 Aubert Hall; 22 Myrtle Street.

Plant Pathology (Agricultural Experiment Station). Professor Folsom, Holmes Hall; 63 Forest Avenue.

Poultry Husbandry. Professor Smyth, Poultry Building; 50 College Road.

Psychology. Professor Dickinson, 31 Stevens, North; 91 Bennoch Street.

Pulp and Paper Technology. Professor Bray, 135 Aubert Hall; 75 Bennoch Street.

Romance Languages. Professor Peterson, 3 Stevens, North; 29 Bennoch Street.

Short Courses. Director Loring, 11 Winslow Hall; 79 Bennoch Street.

Speech. Professor Runion, 350 Stevens; 15 Pond Street.

Zoology. Professor Murray, 16 Coburn Hall; 68½ Main Street.

OF THE DORMITORIES

Balentine Hall, Mabel Frances McGinley, Superintendent. B.S., Maine, 1905.

Balentine Hall, Edna Lawton Sheraton, Assistant Superintendent. R.N., New England Deaconess Hospital, 1909.

Colvin Hall, Gertrude Hayes, Superintendent.

Elms, Velma Katherine Oliver, Director. B.A., Maine, 1925; M.A., 1938.

Elms, Thelma Louise Hillson, Assistant.

Estabrooke, North Section, Pearl Orletta Baxter, Superintendent. B.S. in Ed., Northwestern University, 1927; M.A., Boston University, 1937.

Estabrooke, South Section, Julia Delacour Hill Whittlesey, Superintendent. A.B., Vassar, 1896; M.A., State Teachers College, Montclair, New Jersey, 1935.

MAJOR ADMINISTRATIVE ASSISTANTS

President's office. Florence Elizabeth Johnson, Secretary to the President, Alumni Hall.

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

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

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

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

Dean of Men's office. Prudence Stormann, Secretary to the Dean, Alumni Hall.

Treasurer's office. Dorothea Lewis Miller, Secretary to the Treasurer, Alumni Hall.

Director of Admissions' office. Paulyne Rowell, Secretary to the Director, B.A., Maine, 1927, Alumni Hall.

Director's office, Maine Agricultural Experiment Station. Mary Norton Cameron, Secretary to the Director, Holmes Hall.

Alumni Secretary's office. Margaret Whelpley, Secretary to the Alumni Secretary, 11 Fernald Hall.

Graduate Study and Summer Session office. Abbie Annie Dunning, Secretary to the Dean of Graduate Study and the Director of the Summer Session, 3 Stevens, North.

Other Officers

LIBRARY

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.
Sally Palmer Bogan, Circulation Assistant.
B.A., Maine, 1927.
*Barbara Littlefield Martin, General Assistant.
A.B., Bates, 1935; B.S., Simmons School of Library Science, 1936.
†Laura Louise Eldridge, General Assistant.
B.S., Simmons School of Library Science, 1939.
Elaine Elizabeth Van Nostrand, Assistant.
B.A., Maine, 1939.
Marion Patricia Borden, Assistant.
B.A., Maine, 1939.
Barbara McLeary, Clerk.
B.S. in Ed., Maine, 1938.

HEALTH SERVICE

Walter Charles Hall, M.D., Director.
Blanche Imelda Castonguay, Resident Health Nurse.
R.N., Queens Hospital, Portland, 1928.
Helen Louise O'Leary, Resident Health Nurse.
R.N., Eastern Maine General Hospital, Bangor, 1933.

BUILDINGS AND GROUNDS

John Carroll Dempsey, Superintendent of Buildings and Grounds.
John White Glover, Steam Engineer.
B.S., Maine, 1915.

UNIVERSITY PRESS

Roy Wesley Libby, Superintendent.

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* Resigned December 1, 1940.
† Appointed January 1, 1941.

Faculty of Instruction

(Dates in parentheses indicate year of initial appointment)

RUSSELL, FREMONT LINCOLN; B.S., Maine, 1885; V.S., New York College of Veterinary Surgeons, 1886; Professor Emeritus of Bacteriology and Veterinary Science; 38½ Oak Street.

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

SIMMONS, GEORGE EDWARD; B.S., Ohio Northern, 1902; M.S., 1905; B.Sc., Ohio State, 1909; D.Sc., Ohio Northern, 1922; Professor Emeritus of Agronomy; 7 Gilbert Street.

HART, JAMES NORRIS; B.C.E., Maine, 1885; C.E., 1890; S.M., Chicago, 1897; Sc.D., Maine, 1908; Ph.D., 1922; Dean Emeritus of the University and Professor Emeritus of Mathematics and Astronomy; 123 Main Street.

PATCH, EDITH MARION; B.S., Minnesota, 1901; M.S., Maine, 1910; Ph.D., Cornell University, 1911; Sc.D., Maine, 1937; Entomologist Emeritus; Braeside, College Road.

CHASE, GEORGE DAVIS; A.B., Harvard, 1889; A.M., 1895; Ph.D., 1897; LL.D., Maine, 1927; Dean Emeritus of Graduate Study and Professor Emeritus of Classics; 143 Main Street.

ABBOTT, HERBERT BURR (1920); Technician, Department of Mechanical Engineering, College of Technology; Crosby Mechanical Laboratory; 159 Stillwater Avenue, Old Town.

ALCOTT, ROBERT KERR (1935); Colonel, Infantry (D.O.L.), U. S. Army; LL.B., Minnesota, 1904; Professor of Military Science and Tactics; Armory; 6 North Main Street.

ALLEN, EDWARD JONES (1936); A.B., Colorado College, 1921; A.M., Columbia, 1923; Ph.D., 1936; Dean of the College of Arts and Sciences and Professor of Economics, member of Graduate Faculty; 100 Stevens; 167 Main Street.

ARNOLD, FRANCES ELIZABETH (1919); B.A., Maine, 1910; M.A., 1923; Assistant Professor of Romance Languages, College of Arts and Sciences; 5 Stevens, North; 11 Pond Street.

ASHBY, STANLEY ROYAL (1930); B.A., Texas, 1904; B.A., Oxford, 1907; M.A., 1923; A.M., Harvard, 1925; Ph.D., 1927; Professor of English, College of Arts and Sciences; 235 Stevens; 67 Main Street.

Ashman, Robert Irving (1930); A.B., Cornell University, 1913; M.F., Yale, 1929; Associate Professor of Forestry, College of Agriculture; 24 Winslow; 111 Mill Street.

*Ashworth, John H (1919); A.B., Emory and Henry, 1906; Ph.D., Johns Hopkins, 1914; Professor of Economics, College of Arts and Sciences, member of Graduate Faculty; 44 Stevens, South; 88 North Main Street.

Bailey, Mark (1920); A.B., Yale, 1915; A.M., University of Michigan, 1917; Professor of Speech, College of Arts and Sciences; 240 Stevens; University Place.

Baker, Gregory (1935); B.S., Maine, 1924; M.F., Yale, 1939; Instructor in Forestry, College of Agriculture; 24 Winslow; 26 Myrtle Street.

Barrows, William Edward (1912); B.S., Maine, 1902; E.E., 1908; Professor and Head of Department of Electrical Engineering, College of Technology, member of Graduate Faculty; 2 Lord; 40 Myrtle Street.

Baxter, Pearle Orletta (1937); B.S. in Ed., Northwestern, 1927; M.A., Boston University, 1937; Part-time Instructor in English, College of Arts and Sciences; 225 Stevens; Estabrooke Hall, North Section.

Bennett, Clarence Edwin (1934); Ph.B., Brown, 1923; Sc.M., 1924; Ph.D., 1930; Professor and Head of Department of Physics, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 200 Aubert; 22 Myrtle Street.

Bennett, Earl Freeman (1938); B.S., Maine, 1928; M.S., Massachusetts Institute of Technology, 1930; Assistant Professor of Civil Engineering and Research Assistant in Technology Experiment Station, College of Technology; B1 Lord; 378 College Road.

Bliss, Warren Herbert (1931); B.S., Michigan State College, 1928; M.S., 1931; E.E., 1939; Assistant Professor of Electrical Engineering, College of Technology; 28B Lord; 6 North Main Street.

†Bogan, Edgar Junior (1929); A.B., Miami, 1926; Princeton, 1929; Instructor in Chemistry, College of Technology; 425 Aubert; 234 South Main Street, Old Town.

Borgman, Bernice Dena (1938); B.S., Iowa State, 1934; M.S., 1935; Instructor in Home Economics, College of Agriculture; 13 Merrill; 162 College Road.

Bowden, Ralph Freeman (1925); Technician in Department of Electrical Engineering, College of Technology; 12 Lord; 144 Park Street.

Bradt, Wilber Elmore (1936); A.B., Indiana, 1922; M.A., 1924; Ph.D., 1926; Professor of Chemistry and Head of Department of Chemistry

* On leave of absence, 1940-41.

† On leave of absence, spring semester, 1940-41.

and Chemical Engineering, College of Technology, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 329 Aubert; 204 Broadway, Bangor.

Brann, Bertrand French (1917); B.S., Maine, 1909; M.S., 1911; S.M., Massachusetts Institute of Technology, 1912; Professor of Chemistry, College of Technology; 221 Aubert; 370 College Road.

Brautlecht, Charles Andrew (1919); Ph.B., Yale, 1906; Ph.D., 1912; Professor of Chemistry and Chemical Engineering, College of Technology, member of Graduate Faculty; 333 Aubert; 63 Bennoch Street.

Bray, Paul DeCosta (1923); B.S., Maine, 1914; Ch.E., 1918; Professor of Chemical Engineering and Pulp and Paper Technology, and Head of Division of Pulp and Paper Technology, College of Technology, member of Graduate Faculty; 135 Aubert; 75 Bennoch Street.

Brewer, Everett Leighton (1940); B.S., Maine, 1937; Instructor in Chemistry, College of Technology; 321 Aubert; 14 Park Street.

Brice, Fred Mansfield (1921); Professor of Physical Education; Memorial Gymnasium; 13 Pine Street.

Bricker, Herschel Leonard (1928); A.B., Coe, 1928; Assistant Professor of Speech, College of Arts and Sciences; 330 Stevens; 58 Main Street.

Bridges, Jackson Russell (1940); Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; Dexter.

Brown, Charles Durward (1940); B.S., Maine, 1933; M.S., Harvard, 1938; Assistant Professor of Mechanical Engineering, College of Technology; 16 Lord; 36 Forest Avenue.

Brush, Edward Newcomb (1928); A.B., Vermont, 1925; A.M., Harvard, 1926; Ph.D., 1932; Associate Professor of Psychology, College of Arts and Sciences, member of Graduate Faculty; 43 Stevens, North; 391 College Road.

Bryan, Noah Rosenberger (1922); B.A., Pennsylvania State, 1913; A.M., University of Pennsylvania, 1918; Ph.D., Columbia, 1921; Associate Professor of Mathematics, College of Arts and Sciences, member of Graduate Faculty; 135 Stevens; 4 University Place.

Burtt, Everett Johnson, Jr. (1939); A.B., Berea, 1935; M.A., Duke, 1937; Instructor in Economics, College of Arts and Sciences; 44 Stevens, South; Stillwater Avenue, Stillwater.

Buzzell, Marion Stephanie (1919); B.A., Maine, 1914; M.A., 1915; Assistant Professor of Romance Languages, College of Arts and Sciences; 5 Stevens, North; 222 North Brunswick Street, Old Town.

Cairns, Gordon Mann (1939); B.S., Cornell University, 1936; M.S., 1938; Ph.D., 1940; Professor and Head of Department of Animal Industry,

College of Agriculture, member of Graduate Faculty; 26 Rogers; 6 University Place.

CASSIDY, MARGARET EILEEN (1937); Diploma, Sargent School for Physical Education, 1928; B.S. in Ed., Maine, 1939; Instructor in Physical Education for Women; Alumni; 363 State Street, Bangor.

CAULFIELD, JOHN GEORGE LESLIE (1926); B.S., Maine, 1924; M.S., 1926; Assistant Professor of Pulp and Paper Technology, College of Technology; 135 Aubert; 208 French Street, Bangor.

CAYTING, ALFRED STANLEY (1940); Part-time Instructor, Department of Music (Orchestra); College of Arts and Sciences; B Stevens, North; 12 Leighton Street, Bangor.

CHADBOURNE, AVA HARRIET (1915); B.A., Maine, 1915; M.A., 1918; A.M., Columbia, 1919; Ph.D., 1928; Professor of Education, School of Education, member of Graduate Faculty; 14 Stevens, South; Stillwater.

CHADBOURNE, WALTER WHITMORE (1922); B.A., Maine, 1920; M.B.A., Harvard, 1922; Ph.D., 1935; Professor of Economics and Business Administration, College of Arts and Sciences, member of Graduate Faculty; 30 Stevens, South; 59 College Road.

CHAPMAN, CHAUNCEY WALLACE LORD (1919); B.S., Maine, 1914; M.S., 1921; Assistant Professor of Forestry, College of Agriculture; 24 Winslow; 13 Park Street.

CHUCKA, JOSEPH ANTHONY (1934); B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930; Professor of Agronomy and Head of Department of Agronomy and Agricultural Engineering, College of Agriculture, member of Graduate Faculty; 2 Agricultural Engineering Building; 65 Forest Avenue.

CLAPP, ROGER (1929); B.S., Cornell Univeristy, 1928; M.S., Maine, 1932; Assistant Professor of Horticulture, College of Agriculture; Horticulture Greenhouse; 35 Oak Street.

CLOKE, PAUL (1926); E.E., Lehigh, 1905; M.S., 1913; Eng.D., Maine, 1934; Dean of the College of Technology, Director of the Technology Experiment Station, and Professor of Electrical Engineering, member of Graduate Faculty; 12 Wingate; 49 Forest Avenue.

COGGESHALL, REGINALD (1936); A.B., Harvard, 1916; A.M., 1932; Assistant Professor of English, College of Arts and Sciences, and Director of University Publicity; 340 Stevens; 60 Forest Avenue.

CONEY, BEATRICE (1937); B.S., East Texas State Teachers College, 1928; M.S., Iowa State College, 1937; Assistant Professor of Home Economics, College of Agriculture, member of Graduate Faculty; 13 Merrill; 43 Main Street.

Cooper, Gerald Paul (1936); B.S., Michigan State Normal, 1931; M.A., University of Michigan, 1932; Ph.D., 1938; Assistant Professor of Zoology, College of Arts and Sciences; 7 Coburn; 15 Pond Street.

Corbett, Lamert Seymour (1913); B.S., Massachusetts State, 1909; B.S.A., Boston University, 1909; M.S., Kentucky, 1913; Dean of Men; Alumni; 166 College Road.

Crabtree, Kenneth Gerard (1926); S.B., Massachusetts Institute of Technology, 1923; Assistant Professor of Electrical Engineering, College of Technology; 4 Lord; 43 Main Street.

Crandon, Mary Perkins (1937); B.A., Maine, 1923; M.A., Bryn Mawr, 1924; Instructor in English, College of Arts and Sciences; 220 Stevens; Stillwater Avenue, Stillwater.

Crawford, John Raymond (1930); B.A., Culver-Stockton, 1924; M.A., State University of Iowa, 1929; Ph.D., 1931; Associate Professor of Education and Director of Bureau of Educational Research and Service, School of Education, member of Graduate Faculty; Catalog Editor; 18 Stevens, South; 6 Riverdale.

Creamer, Walter Joseph (1919); B.S., Maine, 1918; E.E., 1921; B.A., 1923; Professor of Communication Engineering, College of Technology, Director of Freshman Week, member of Graduate Faculty; 24 Lord; 331 Center Street, Bangor.

Crofutt, Charles Burton (1926); B.A., Cornell College, 1919; M.S., State University of Iowa, 1920; Ph.D., 1923; Associate Professor of Physics, College of Arts and Sciences, member of Graduate Faculty; 300 Aubert; 30 Mill Street.

Crosby, Ruth (1929); A.B., Mount Holyoke, 1919; A.M., Radcliffe, 1920; Ph.D., 1929; Assistant Professor of English, College of Arts and Sciences; 230 Stevens; 56 Main Street.

Curtis, James Dillon (1939); B.A., University of British Columbia, 1929; B.A.Sc., 1930; M.F., Harvard, 1935; Assistant Professor of Forestry, College of Agriculture; 24 Winslow; 23 Spencer Lane.

Curtis, Theodore Small (1930); B.S., Maine, 1923; Faculty Manager of Athletics; Memorial Gymnasium; 123 Main Street.

*Davee, Everett Willard (1903); Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; 46 College Road.

Deering, Arthur Lowell (1912); B.S., Maine, 1912; Sc.D., 1934; Dean of the College of Agriculture and Director of Extension Service, member of Graduate Faculty; 16 Winslow; 160 College Road.

Demeritt, Dwight Burgess (1934); B.S., Maine, 1922; M.F., Yale, 1923;

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* On leave of absence, 1940-41.

Professor and Head of Department of Forestry, College of Agriculture, member of Graduate Faculty; 24 Winslow; 15 University Place.

DICKINSON, CHARLES ALEXIUS (1926); A.M., Clark, 1922; Ph.D., 1925; Professor and Head of Department of Psychology, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 31 Stevens, North; 91 Bennoch Street.

DIRKS, CHARLES ORVILLE (1927); B.S., Kansas State College, 1924; M.S., Iowa State College, 1925; Ph.D., Cornell University, 1935; Associate Professor of Entomology, College of Agriculture, member of Graduate Faculty; 32 Coburn; 9 Peters Street.

DORSEY, LLEWELLYN MORSE (1917); B.S., Maine, 1916; M.S., 1923; Professor of Dairy Husbandry, College of Agriculture, member of Graduate Faculty; 28 Rogers; 67 Bennoch Street.

DOUGLASS, IRWIN BRUCE (1940); B.S., Monmouth College, 1926; Ph.D., Kansas, 1932; Assistant Professor of Chemistry, College of Technology, member of Graduate Faculty; 423 Aubert; 66 College Road.

DOW, EDWARD FRENCH (1929); B.S., Bowdoin, 1925; A.M., Harvard, 1926; Ph.D., 1932; Professor of Government and Head of Department of History and Government, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 145 Stevens; 65 College Road.

DOW, GEORGE FARRINGTON (1934); B.S., Maine, 1927; M.S., 1929; Ph.D., Cornell University, 1938; Associate Professor of Agricultural Economics and Farm Management, College of Agriculture; 38 Winslow; 35 Park Street.

DRUMMOND, ROBERT RUTHERFORD (1909); B.S., Maine, 1905; Ph.D., University of Pennsylvania, 1909; Professor and Head of Department of German, College of Arts and Sciences, member of Graduate Faculty; 325 Stevens; 61 Bennoch Street.

DUSENBURY, DELWYN BENNETT (1938); B.A., Wisconsin, 1936; M.A., Minnesota, 1937; Instructor in Speech, College of Arts and Sciences; 350 Stevens; 74 North Main Street.

ELLIOTT, WALLACE HENRY (1937); B.S., Maine, 1926; M.S., Cornell University, 1937; Assistant Professor of Agricultural Education, College of Agriculture; 22 Agricultural Engineering Building; 38 North Main Street.

ELLIS, MILTON (1919); B.A., Maine, 1907; M.A., 1908; A.M., Harvard, 1909; Ph.D., 1913; Professor and Head of Department of English, College of Arts and Sciences, member of Graduate Faculty, and cooperating

member of the faculty of the School of Education; 200 Stevens; 29 Park Street.

EVANS, WESTON SUMNER (1920); B.S., Maine, 1918; M.S., 1923; Professor and Head of Department of Civil Engineering, College of Technology, member of Graduate Faculty; 21 Wingate; 8 Kell Street.

FLEWELLING, HOWARD LLOYD (1932); A.B., Dartmouth, 1921; M.A., Maine, 1929; Ph.D., University of Michigan, 1932; Associate Professor of English, College of Arts and Sciences; 230 Stevens; Stillwater Avenue, Stillwater.

FLYNN, CARL MUNRO (1940); B.A., Maine, 1930; M.A., Wesleyan, 1932; M.A., Harvard, 1939; Ph.D., 1940; Instructor in Zoology, College of Arts and Sciences; 14A Coburn; 23 Crosby Street.

FULLER, JOHN LANGWORTHY (1937); B.S., Bates, 1931; Ph.D., Massachusetts Institute of Technology, 1935; Instructor in Zoology, College of Arts and Sciences; 21A Coburn; 43 Pine Street.

GANNETT, JAMES ADRIAN (1908); B.S., Maine, 1908; M.A., 1928; Registrar; Alumni; 166 Main Street.

GARDNER, LEIGH PHILBROOK (1920); B.S., Maine, 1918; M.S., 1923; Assistant Professor of Poultry Husbandry, College of Agriculture; Poultry Building; 45 Oak Street.

GEBHARD, JOHN WENDELL (1939); A.B., Wayne University, 1934; M.A., University of Michigan, 1936; Instructor in Psychology, College of Arts and Sciences; 39 Stevens, North; 391 College Road.

GLANVILLE, ALBERT DOUGLAS (1937); A.B., Cornell University, 1927; M.A., Illinois, 1928; Ph.D., Cornell University, 1932; Instructor in Psychology, College of Arts and Sciences; 39 Stevens, North; 158 Main Street.

GOULD, GLADYS MARIE (1928); B.S., Maine, 1922; Part-time Instructor in Home Economics in charge of Student Teaching, College of Agriculture; Brewer High School; 33 Park Street, Bangor.

GREENE, PEARL STUART (1923); B.A., Northwestern, 1909; B.S., Lewis Institute, 1914; A.M., Columbia, 1923; Professor and Head of Department of Home Economics, College of Agriculture, member of Graduate Faculty; 24 Merrill; 6 University Place.

HALL, HOWE WIGGIN (1923); B.S., Maine, 1914; M.S., 1925; Assistant Professor of Animal Husbandry, College of Agriculture; 25 Rogers; 24 Crosby Street.

HARABOSKY, ROMAN HENRY (1937); Sergeant (D.E.M.L.), Coast Artillery, U. S. Army; Instructor in Military Science and Tactics; Armory; 14 Pond Street.

HAUCK, ARTHUR ANDREW (1934); A.B., Reed, 1915; Ph.D., Columbia, 1932; LL.D., Lafayette, 1936; LL.D., New Hampshire, 1937; President of the University; Alumni; Campus.

HAW, JOSEPH CUMMING (1936); B.S., United States Military Academy, 1915; Lieutenant Colonel, Coast Artillery Corps (D.O.L.), U. S. Army; Associate Professor of Military Science and Tactics; Armory; 25 Parkview Avenue, Bangor.

HAWTHORNE, MANNING (1938); A.B., Bowdoin, 1930; M.A., University of North Carolina, 1937; Instructor in English, College of Arts and Sciences; 345 Stevens; 362 Stillwater Avenue, Old Town.

HEALY, RICHARD WYMAN (1940); 2nd Lieutenant, Infantry Reserve; B.A., Maine, 1938; Assistant Professor of Military Science and Tactics; Armory; 54 Park Street.

HIGHLANDS, MATTHEW EDWARD (1935); B.A., Maine, 1928; S.M., Massachusetts Institute of Technology, 1934; Assistant Professor of Bacteriology, College of Agriculture; 13 Winslow; 54 Main Street.

HILL, ARTHUR ST. JOHN (1918); E.E., Polytechnic Institute of Brooklyn, 1911; M.S.E., University of Michigan, 1932; E.E., 1937; Professor of Electrical Engineering, College of Technology, member of Graduate Faculty; 5 Lord; 9 Kell Street.

HILL, HERBERT STAPLES (1918); A.B., Bowdoin, 1905; Professor and Head of Department of Agricultural Education, College of Agriculture; 22 Agricultural Engineering Building; 57 College Road.

HITCHNER, ELMER REEVE (1922); B.S., Pennsylvania State, 1915; M.S., 1916; Ph.D., Wisconsin, 1931; Professor of Bacteriology and Head of Department of Bacteriology and Biochemistry, College of Agriculture, member of Graduate Faculty; 13 Winslow; 51 Bennoch Street.

HOBBAH, REGINALD VYVYAN (1937); B.S., University of Pittsburgh, 1931; M.A., 1934; Instructor in Economics and Business Administration, College of Arts and Sciences; 30 Stevens, South; 1 Spencer Lane.

HODGES, ARTHUR WEBSTER, JR. (1940); 2nd Lieutenant, Infantry Reserve; B.A., Maine, 1938; Assistant Professor of Military Science and Tactics; Armory; 80 Mill Street.

HUDDILSTON, JOHN HOMER (1899); B.A., Baldwin-Wallace, 1890; M.A., 1892; A.B., Harvard, 1893; Ph.D., Munich, 1898; Professor of Ancient Civilization and Lecturer on Art History, College of Arts and Sciences; 36 Stevens, South; 193 Main Street.

HURD, ETHAN ALLEN (1940); B.S., Minnesota, 1936; Instructor in Government, College of Arts and Sciences; 150 Stevens; Ledge Hill Road.

HYLAND, FAY (1926); B.S., Michigan State College, 1925; M.S., Maine, 1929; Assistant Professor of Botany, College of Agriculture; 31 Coburn; 36 Main Street.

IBBOTSON, LOUIS TAPPE (1928); A.B., Hamilton, 1922; B.L.S., University of the State of New York, 1925; Librarian; Library; University Place.

INGRAHAM, HERBERT SHEPHERD (1940); Captain, Coast Artillery Reserve; A.B., Bowdoin, 1922; Assistant Professor of Military Science and Tactics; Armory; 51 Pine Street.

JACKMAN, ERNEST DELMORE (1930); A.B., Colby, 1912; A.M., Columbia, 1924; Associate Professor of Education and Director of Teacher Training, School of Education, member of Graduate Faculty; 10 Stevens, South; College Road, Stillwater.

JENKINS, CHESTER ALBERT (1928); B.S., Dartmouth, 1911; M.S., Maine, 1931; Professor of Physical Education; Memorial Gymnasium; University Place.

JENNESS, LYLE CLAYTON (1923); B.S., New Hampshire, 1922; M.S., Maine, 1925; Associate Professor of Chemical Engineering, College of Technology; 103A Aubert; 80 Forest Avenue.

JONES, ALFRED WELWOOD (1939); A.B., Columbia College, 1937; A.M., Columbia University, 1939; Instructor in Mathematics, College of Arts and Sciences; 120 Stevens; 68 Main Street.

JONES, MAURICE DANIEL (1913); B.S., Maine, 1912; M.S., 1927; Professor of Agricultural Economics and Farm Management and Manager of University Farm, College of Agriculture, member of Graduate Faculty; 36 Winslow; 164 College Road.

JORDAN, MAYNARD FRED (1919-21) (1925); B.A., Maine, 1916; M.A., 1921; Associate Professor of Mathematics and Astronomy, College of Arts and Sciences; 130 Stevens; 23 University Place.

KENT, BENJAMIN CALVIN (1918); B.S., Maine, 1912; Professor and Head of Department of Engineering Drafting, College of Technology; 30 Wingate; 16 Sixth Street, Bangor.

KENYON, WILLLAM CURTIS (1926); Instructor in Physical Education; Memorial Gymnasium; 83 Main Street.

KIMBALL, SPOFFORD HARRIS (1936); B.S., Denison, 1923; M.A., Pittsburgh, 1925; A.M., Harvard, 1929; Ph.D., 1932; Associate Professor of Mathematics, College of Arts and Sciences; 135 Stevens; 66 College Road.

KIRSHEN, HIMY BENJAMIN (1929); B.S., Whitman, 1926; A.M., Columbia, 1929; Ph.D., Wisconsin, 1937; Professor of Economics and Head of Department of Economics and Sociology, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 46 Stevens, South; 46 North Main Street.

KLEIN, JOHN FREDERICK (1933); A.B., Cornell University, 1912; A.M., 1913; Ph.D., 1920; Associate Professor of German, College of Arts and Sciences; 320 Stevens; 66 College Road.

LAMOREAU, FRED LINCOLN (1930); B.A., Maine, 1930; M.A., 1934; Assistant Professor of Mathematics and Astronomy, College of Arts and Sciences; 120 Stevens; 38 Penobscot Street.

LAMSON, HERBERT DAY (1935); Ph.B., Brown, 1924; A.M., 1925; A.M., Harvard, 1934; Ph.D., 1935; Associate Professor of Sociology, College of Arts and Sciences, member of Graduate Faculty; 42 Stevens, South; 77 Bennoch Street.

LARSEN, KARL DAVIS (1934); B.A., Maine, 1929; M.A., 1930; Ph.D., Pennsylvania State, 1934; Assistant Professor of Physics, College of Arts and Sciences; 304 Aubert; 36 Myrtle Street.

LASK, WALTER MICHAEL (1940); 1st Lieutenant, Coast Artillery Reserve; B.S. in Ed., University of Alabama, 1932; Assistant Professor of Military Science and Tactics; Armory; 17 Peters Street.

LEAVITT, HAROLD WALTER (1917); B.S., Maine, 1915; C.E., 1918; M.S., 1921; Professor of Highway Engineering, and Secretary and Testing Engineer, Technology Experiment Station, College of Technology; 5 Wingate; 7 Park Street.

LEKBERG, HOWARD PARKER (1937); B.S., Worcester Polytechnic Institute, 1932; Instructor in Mechanical Engineering, College of Technology; 14 Lord; 43 Pine Street.

LENGYEL, HELEN ANNA (1924); Diploma, Sargent School for Physical Education, 1915; B.A., Maine, 1927; M.A., 1936; Associate Professor of Physical Education for Women; Alumni; 11 Main Street.

LEVINSON, RONALD BARTLETT (1926); A.B., Harvard, 1919; Ph.D., Chicago, 1924; Professor and Head of Department of Philosophy, College of Arts and Sciences, member of Graduate Faculty; 335 Stevens; 78 North Main Street.

LIBBY, WINTHROP CHARLES (1934); B.S., Maine, 1932; M.S., 1933; Associate Professor of Agronomy, College of Agriculture; 2 Agricultural Engineering Building; 66 College Road.

LORING, FRED PERLEY (1934); B.S., Maine, 1916; M.S., 1936; Director of Short Courses, College of Agriculture; 11 Winslow; 79 Bennoch Street.

LUCAS, WARREN STANHOPE (1922); B.A., Maine, 1914; M.A., 1922; Assistant Professor of Mathematics, College of Arts and Sciences; 120 Stevens; Spring Street, Stillwater.

LUTES, OLIN SILAS (1926); A.B., Ohio University, 1915; M.A., State University of Iowa, 1923; Ph.D., 1926; Dean of the School of Education and Professor of Education, member of Graduate Faculty; 24 Stevens, South; College Road, Stillwater.

LYON, ALPHEUS CROSBY (1912); B.S., Maine, 1902; S.B., Massachusetts Institute of Technology, 1904; C.E., Maine, 1913; Associate Professor of Civil Engineering, College of Technology; 3 Wingate; 735 Main Street, Bangor.

MCCARTHY, CECILIA AGNES (1937); S.B., Simmons, 1917; A.M., Columbia,

1935; Assistant Professor of Home Economics, College of Agriculture; 15a Merrill; 43 Main Street.

McNeary, Matthew (1937); B.S., Pennsylvania State, 1932; Instructor in Engineering Drafting, College of Technology; 41 Wingate; 148 College Road.

Marcy, Orrin Jay (1940); B.S., Nebraska, 1939; Instructor in Agricultural Economics and Farm Management, College of Agriculture; 34 Winslow; 7 Pleasant Street.

Martin, Frederic Thurman (1934); Ch.E., Lehigh, 1925; Ph.D., Johns Hopkins, 1929; Instructor in Chemistry, College of Technology; 207 Aubert; 13 Pond Street.

Mendall, Howard Lewis (1937); B.A., Maine, 1931; M.A., 1934; Instructor in Game Management, College of Agriculture; 9 Coburn; 28 Pendleton Street, Brewer.

Merchant, Charles Henry (1924); B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928; Professor and Head of Department of Agricultural Economics and Farm Management, College of Agriculture, member of Graduate Faculty; 36 Winslow; 17 Spencer Lane.

Meyer, Eugene Clarence (1938); B.S., (Agri.) Wisconsin, 1932; B.S., (Eng.) 1933; M.S., 1936; Assistant Professor of Agricultural Engineering, College of Agriculture; 21 Agricultural Engineering Building; 144 Essex Street, Bangor.

Miles, Edwin Kenneth (1933); B.A., Lawrence, 1929; M.A., Northwestern, 1930; Ph.D., University of Pennsylvania, 1933; Assistant Professor of German, College of Arts and Sciences; 320 Stevens; 6 North Main Street.

Morrow, Rising Lake (1934); B.A., Wesleyan, 1923; A.M., Harvard, 1925; Ph.D., 1932; Assistant Professor of History, College of Arts and Sciences, member of Graduate Faculty; 150 Stevens; 57 College Road.

Murray, Joseph Magee (1934); B.A., Maine, 1925; M.A., University of Michigan, 1927; Ph.D., 1929; Professor and Head of Department of Zoology, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 16 Coburn; 68½ Main Street.

Musgrave, Marguerite Ruth (1929); B.S., Columbia, 1925; A.M., 1926; Assistant Professor of Home Economics, College of Agriculture; 31a Merrill; 33 Main Street.

Nesbitt, Margaret Katherine (1938); B.A., Ohio State University, 1930; M.A., 1931; Assistant Professor of Home Economics, College of Agriculture; 11a Merrill; 16 University Place.

*Niederfrank, Evlon Joy (1935); B.S., Oregon State College, 1932; M.S., 1935; Assistant Professor of Agricultural Economics and Farm Management, College of Agriculture.

Nolan, William John (1938); Ch.E., Rensselaer Polytechnic Institute, 1929; Ph.D., University of Michigan, 1936; Associate Professor of Chemical Engineering, College of Technology, member of Graduate Faculty; 115 Aubert; 19 Garland Street, Bangor.

Ogden, Eugene Cecil (1938); B.S., Michigan State, 1932; M.S., Maine, 1934; A.M., Harvard, 1936; Ph.D., 1938; Instructor in Botany, College of Agriculture; 26 Coburn; 36 Main Street.

Oleson, Frederick Barbour (1938); A.B., Colby, 1938; M.S., Maine, 1940; Instructor in Physics, College of Arts and Sciences; 406 Aubert; 2 Myrtle Street.

Osgood, Carl Chapin (1939); B.S., Maine, 1938; Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; 54 Hill Street.

*Otto, Carl Everett (1924); B.A., Cincinnati, 1916; M.A., 1920; Ph.D., 1922; Associate Professor of Chemistry, College of Technology.

Owens, Albert Llewellyn (1940); B.S., Maine, 1938; M.S., Illinois, 1940; Instructor in Agricultural Economics and Farm Management, College of Agriculture; 34 Winslow; 77 Mill Street.

Pearce, John (1940); B.S., New York State College of Forestry, 1934; M.F., 1935; Assistant Professor of Game Management, College of Agriculture; 9 Coburn; 40 Forest Avenue.

Pedlow, John Thomas (1936); B.S., Pennsylvania State, 1925; M.S., Rutgers, 1926; Ph.D., Pennsylvania State, 1934; Assistant Professor of Biochemistry, College of Agriculture; 15 Winslow; 20 Myrtle Street.

Pelletier, Lawrence Lee (1939); A.B., Bowdoin, 1936; A.M., Harvard, 1939; Instructor in Government, College of Arts and Sciences; 175 Stevens; Bennoch Road.

Perkins, Harry Roy (1917); Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; Spring Street, Stillwater.

Peterson, Roy Merle (1918); A.B., Coe, 1906; A.M., Harvard, 1910; Ph.D., 1912; F.A.A.R.; Professor and Head of Department of Romance Languages, College of Arts and Sciences, Director of the Summer Session, Dean of Graduate Faculty, and cooperating member of the faculty of the School of Education; 3 Stevens, North; 29 Bennoch Street.

Prageman, Irving Henry (1927); Ph.B., Yale, 1918; M.E., 1923; Associate Professor of Mechanical Engineering, College of Technology; 14 Lord; 58 Main Street.

* On leave of absence, 1940-41.

Raleigh, Stephen Martin (1934); B.S., Kansas State College, 1927; Ph.D., Minnesota, 1934; Assistant Professor of Agronomy, College of Agriculture; 2 Agricultural Engineering Building; 150 Park Street.

Reynolds, Cecil John (1935); B.Sc., Mount Allison, 1926; B.A., 1927; B.A., Oxford, 1929; B.Litt., 1930; A.M., Harvard, 1932; Instructor in English, College of Arts and Sciences; 245 Stevens; 5 Forest Avenue.

Riley, Richard McVay (1929); B.S., Ohio University, 1926; M.S., Cornell University, 1929; Assistant Professor of Horticulture, College of Agriculture; Horticulture Greenhouse; 151 Park Street.

Rinkaus, Joseph James (1935); Sergeant (D.E.M.L.), U. S. Army; Instructor in Military Science and Tactics; Armory; 31A Mill Street.

Rogers, Marion Elizabeth (1927); Diploma, Sargent School for Physical Education, 1927; B.A., Maine, 1930; M.A., 1936; Assistant Professor of Physical Education for Women; Alumni; 57 College Road.

Roy, Joseph Abel (1936); Sergeant (D.E.M.L.), U. S. Army; Instructor in Military Science and Tactics; Armory; Goldsmith's Lane, Old Town.

Runion, Howard Lucius (1936); A.B., University of Michigan, 1931; M.A., 1932; Ph.D., 1936; Associate Professor and Acting Head of Department of Speech, College of Arts and Sciences; 350 Stevens; 15 Pond Street.

Ryckman, Seymour James (1940); B.S., Michigan State, 1939; M.S., Missouri University, 1940; Instructor in Civil Engineering, College of Technology; 21 Wingate; 37 Pine Street.

Sanderlin, George William (1938); B.A., American University, 1935; Ph.D., Johns Hopkins, 1938; Instructor in English, College of Arts and Sciences; 250 Stevens; 8 Juniper Street.

Sawyer, Ralph Albert (1929); B.S., Norwich, 1925; Assistant Professor of Engineering Drafting, College of Technology; 41 Wingate; 19 Oak Street.

Scamman, William Francis (1926); B.A., Maine, 1908; M.A., 1930; Associate Professor of English, College of Arts and Sciences; 245 Stevens; 144 College Road.

Selwood, James Gordon (1941); Part-time Instructor, Department of Music (Chorus), College of Arts and Sciences; D Stevens, North; Northern Conservatory of Music, Bangor.

Sezak, Samuel (1939); B.A. in Ed., Maine, 1931; Assistant Faculty Manager of Athletics; Memorial Gymnasium; 6 Gilbert Street.

Shaw, Francis Goodwin (1940); Part-time Instructor, Department of Music (Band), College of Arts and Sciences; C Stevens, North; 62 High Street, Bangor.

Small, George William (1929); B.A., Tennessee, 1915; M.A., Johns Hop-

kins, 1921; Ph.D., 1922; B.Litt., Oxford, 1927; Professor of English, College of Arts and Sciences, member of Graduate Faculty; 250 Stevens; 15 Pleasant Street.

SMITH, HARRY WOODBURY (1912); B.S., Maine, 1909; M.S., 1922; Ph.D., Rutgers, 1934; Professor of Biochemistry, College of Agriculture, member of Graduate Faculty; 15 Winslow; 382 College Road.

SMITH, LESLIE FRANCIS (1938); M.A., Glasgow University, 1926; A.M., Columbia, 1929; Ph.D., 1940; Assistant Professor of Classics, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 110 Stevens; 102 North Main Street.

SMITH, PAYSON (1940); A.M., Tufts, 1903; Litt.D., Bates, 1909; Litt.D., Bowdoin, 1909; Ed.D., Rhode Island State Teachers College, 1926; Ed.D., Colby, 1940; LL.D., Maine, 1908; LL.D., Norwich University, 1928; LL.D., Springfield College, 1934; LL.D., Northeastern University, 1935; Professor of Education, School of Education; 16 Stevens, South; Peak's Island, Portland.

SMYTH, JOHN ROBERT (1929); B.S., Purdue, 1920; M.S., Kentucky, 1928; Professor and Head of Department of Poultry Husbandry, College of Agriculture; Poultry Building; 50 College Road.

SNIESZKO, STANISLAS FRANCIS (1940); Ph.D., Jagellonian University, Krakow, Poland, 1926; Instructor in Bacteriology, College of Agriculture; 13 Winslow; 109 Main Street.

SNYDER, MARY ELLA (1936); A.B., Gooding College, 1919; M.S., Iowa State College, 1936; Instructor in Home Economics, College of Agriculture; 25a Merrill; 69 Bennoch Street.

SPARROW, THERON ALONZO (1926); B.S., Maine, 1924; M.S., 1938; Assistant Professor of Mechanical Engineering, College of Technology; 14 Lord; 100 Main Street.

SPEICHER, BENJAMIN ROBERT (1937); A.B., Denison, 1929; M.S., Pittsburgh, 1931; Ph.D., 1933; Associate Professor of Zoology, College of Arts and Sciences; 23 Coburn; 104 North Main Street.

SPRAGUE, ADELBERT WELLS (1916); B.S., Maine, 1905; A.M., Harvard, 1907; Professor and Head of Department of Music, College of Arts and Sciences, and cooperating member of the faculty of the School of Education; 15 Stevens, North; 217 Union Street, Bangor.

STARR, WILMARTH HOLT (1937); B.A., Wesleyan, 1934; Ph.D., Johns Hopkins, 1937; Instructor in Romance Languages, College of Arts and Sciences; 9 Stevens, North; 47 Forest Avenue.

STEINBAUER, GEORGE PETER (1929); B.S., Minnesota, 1925; M.S., 1927;

Ph.D., 1929; Associate Professor of Botany, College of Agriculture; 8 Coburn; 2 Riverdale.

STEINMETZ, FERDINAND HENRY (1927); B.S., Illinois, 1915; M.S., Minnesota, 1921; Ph.D., 1926; Professor of Botany and Head of Department of Botany and Entomology, College of Agriculture, member of Graduate Faculty; 24 Coburn, 36 College Road.

STEWART, JOHN EMMONS (1928); B.A., Maine, 1927; M.A., 1928; Assistant Professor of Mathematics, College of Arts and Sciences; 140 Stevens; 136 Middle Street, Old Town.

STORMANN, CHARLES LINWOOD (1937); Technician, Department of Physics, College of Arts and Sciences, Department of Chemistry and Chemical Engineering, and Civil Engineering, College of Technology and Technology Experiment Station; 102 Aubert; Spring Street, Stillwater.

STRICKLAND, ANNA (1940); Part-time Instructor, Department of Music (Chorus), College of Arts and Sciences; D Stevens, North; 74 Grove Street, Bangor.

STUART, RICHARD KENNETH (1940); B.S., Rhode Island State College, 1938; M.S., 1940; Instructor in Economics, College of Arts and Sciences; 44 Stevens, South; 40 College Road.

SWEETMAN, MARION DEYOE (1927); B.S., Iowa State College, 1921; M.S., 1922; Ph.D., Minnesota, 1927; Professor of Home Economics, College of Agriculture, member of Graduate Faculty; 25 Merrill; 16 University Place.

SWIFT, HAROLD CLAYTON (1920); B.S., Maine, 1918; M.S., 1923; Assistant Professor of Agronomy and Agricultural Engineering, College of Agriculture; 21 Agricultural Engineering Building; 40 Wiley Street, Bangor.

TAYLOR, FRANK MELROY (1940); B.S., Lafayette College, 1928; C.E., 1937; Instructor in Civil Engineering, College of Technology; 11 Wingate; 80 Forest Avenue.

TOMLIN, WILBUR EVERETT (1930); A.B., Kentucky Wesleyan, 1926; A.M., Columbia, 1931; Instructor in Chemistry, College of Technology; 229 Aubert; 31 Hamlin Street.

TREFETHEN, JOSEPH MUZZY (1938); A.B., Colby, 1931; M.S., University of Illinois, 1932; Ph.D., Wisconsin, 1935; Assistant Professor of Geology, Department of Civil Engineering, College of Technology; 2 Fernald; 24 Forest Avenue.

TURNER, ALBERT MORTON (1922); A.B., Harvard, 1912; A.M., 1914; Ph.D., 1920; Professor of English and Comparative Literature, College of Arts and Sciences, member of Graduate Faculty; 235 Stevens; 154 College Road.

VIGNERAS, LOUIS-ANDRÉ (1936); B. ès L., Université de Poitiers, 1920; B.A., Princeton, 1921; M.A., 1922; Ph.D., Harvard, 1934; Assistant Professor of Romance Languages, College of Arts and Sciences; 9 Stevens, North; 25 Myrtle Street.

WALLACE, STANLEY MOORE (1922); Diploma, New Haven Normal School of Gymnastics, 1917; Professor and Head of Department of Physical Education; Memorial Gymnasium; 45 Park Street.

WARING, JAMES HOWARD (1925); B.S., Pennsylvania State, 1920; M.S., 1921; Ph.D., Michigan State College, 1930; Professor and Head of Department of Horticulture, College of Agriculture, member of Graduate Faculty; Horticulture Greenhouse; 24 University Place.

WATSON, HARRY DEXTER (1920); B.S., Maine, 1920; M.S., 1929; Professor and Head of Department of Mechanical Engineering, member of Graduate Faculty, College of Technology; 16 Lord; University Place.

WENCE, MILFORD EDWARD (1937); B.A., State University of Iowa, 1933; M.A., 1934; Ph.D., 1937; Instructor in English, College of Arts and Sciences; 220 Stevens; 6 Riverdale.

WESTON, CHARLES PARTRIDGE (1896-1901) (1904); B.C.E., Maine, 1896; C.E., 1899; A.M., Columbia, 1902; Professor and Head of Department of Mechanics, College of Technology; 1 Fernald; College Road, Stillwater.

WHITE, CALISTA KELLEY (1938); B.S., Vermont, 1927; M.A., St. Lawrence, 1932; Instructor in Home Economics, College of Agriculture; 35a Merrill; 48 Main Street.

WHITMORE, ALBERT AMES (1918); B.S., Maine, 1906; M.A., 1917; Professor of History, College of Arts and Sciences; 150 Stevens; 31B Mill Street.

WHITNEY, VINCENT HEATH (1939); A.B., University of North Carolina, 1936; M.A., 1937; Instructor in Sociology, College of Arts and Sciences; 42 Stevens, South; 180 Main Street.

WHITNEY, WALTER REGINALD (1928); B.S., Bowdoin, 1923; A.M., Harvard, 1935; Assistant Professor of English, College of Arts and Sciences; 345 Stevens; Ledge Hill Road.

WILLARD, HARLEY RICHARD (1904); A.B., Dartmouth, 1899; A.M., 1902; A.M., Yale, 1910; Ph.D., 1912; Professor and Head of Department of Mathematics and Astronomy, College of Arts and Sciences, member of Graduate Faculty, and cooperating member of the faculty of the School of Education; 130 Stevens; 100 Bennoch Street.

WILLIAMS, ARTHUR OLNEY, JR., (1937); S.B., Massachusetts Institute of Technology, 1934; S.M., Brown, 1936; Ph.D., 1937; Assistant Professor of Physics, College of Arts and Sciences; 314 Aubert; 75 Forest Avenue.

WILLIAMS, STANLEY BURDG (1940); A.B., University of California at Los Angeles, 1934; M.A., 1937; Ph.D., Yale, 1940; Instructor in Psychology, College of Arts and Sciences; 39 Stevens, North; 84 College Road.

WILSON, EDITH GRACE (1931); B.A., Southern California, 1923; M.A., 1928; Instructor in Sociology, College of Arts and Sciences, Dean of Women; 8 Stevens, South; 16 University Place.

WILSON, EVELYN FAYE (1933); A.B., Beloit, 1921; M.A., University of Washington, 1924; Ph.D., California, 1930; Associate Professor of History, College of Arts and Sciences, member of Graduate Faculty; 175 Stevens; 56 Main Street.

WILSON, NORMAN EDWARD (1940); E.E., Cornell University, 1937; Instructor in Electrical Engineering, College of Technology; 3 Lord; 39 Pine Street.

WITTER, JOHN FRANKLIN (1932); B.S., Maryland, 1928; D.V.M., Michigan State College, 1932; Assistant Professor of Animal Pathology, College of Agriculture; Poultry Building; 3 Riverdale.

WOODBURY, HAROLD MACE (1937); B.S., Maine, 1937; Instructor in Physical Education for Men; Memorial Gymnasium; 7 Park Lane.

TURNER, PERCIE HOPKINS; A.B., Smith, 1917; A.M., 1920; A.M., Radcliffe, 1923; Ph.D., 1924; Lecturer in English, College of Arts and Sciences; 154 College Road.

ARATA, MANNING NERI; B.S. in Ed., Boston University, 1930; M.S. in Ed., Maine, 1939; Critic Teacher, School of Education; Helen Hunt School, Old Town; 71 Somerset Street, Old Town.

CROXFORD, HORACE ALCANDER; B.A., Maine, 1930; Instructor and Critic Teacher, School of Education; Orono High School; High School Road.

GRANT, GRACE STETSON; A.B., Colby, 1907; A.M., Middlebury, 1935; Critic Teacher, School of Education; Orono High School; 80 Pine Street.

MERRILL, ROBERT BATES; A.B., Colby, 1936; Critic Teacher, School of Education; Old Town High School; 16 Willow Street, Old Town.

MILLER, LOUISE BROOKES; B.A., Bethany, 1931; Critic Teacher, School of Education, Orono High School; 66 College Road.

MUTTY, MARIE JOSEPHINE; B.A., Maine, 1933; Critic Teacher, School of Education; Old Town High School; 60 North Fourth Street, Old Town.

ROBINSON, VEYSEY HIRAM; B.Ped., Maine, 1917; Instructor and Critic Teacher, School of Education; Old Town High School; 183 Stillwater Avenue, Old Town.

SIMMONS, DANA MAXWELL; B.S., Colby, 1931; Critic Teacher, School of Education; Orono High School; 34 Forest Avenue.

SWEETSER, LAWRENCE RICHARDSON; B.S., Maine, 1932; Critic Teacher, School of Education; Orono High School; 66 College Road.

TUOMI, MARTHA ILONA; B.A., Maine, 1934; M.A., 1935; Critic Teacher, School of Education; Old Town High School; 278 Center Street, Old Town.

CAIL, ROBERT SMALL; B.S., Maine, 1939; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 25 Coburn; 7 Park Street.

CLARK, ELDON RALPH; B.S., Maine, 1940; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; Phi Mu Delta House.

COOPER, JAMES, JR.; B.Ch.E., Pratt Institute, 1940; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 11 Beech Street.

DYER, HAROLD JACOBSEN; B.S., Maine, 1940; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; Sigma Alpha Epsilon House.

ELA, JEANNETTE LAMOREAU; B.A., Maine, 1939; Graduate Assistant, Department of Mathematics and Astronomy, College of Arts and Sciences; 135 Stevens; 83 Park Street.

ELLIS, REED HOBART, JR.; A.B., Bowdoin, 1939; Graduate Assistant, Department of Physics, College of Arts and Sciences; 406 Aubert; 11 South Brunswick Street, Old Town.

GOODWIN, HARRY ALLAN; B.A., Saint Anselm's College, 1939; Graduate Assistant in Wildlife Conservation, College of Agriculture; 7 Coburn; 23 Park Street.

GRADY, WALTER THOMAS; B.S., Northeastern University, 1940; Graduate Assistant, Department of Civil Engineering, College of Technology; 11 Wingate; 52 North Main Street.

GUTHRIE, ROBERT; B.A., Minnesota, 1940; Graduate Fellow in Bacteriology, College of Agriculture; 13 Winslow; 20 Grove Street.

HENDRICKSON, KARL NEWCOMB; B.S., Maine, 1938; Graduate Assistant, Department of Civil Engineering, College of Technology; 21 Wingate; 80½ Pine Street.

KANDEL, HERBERT JAY; B.S., Virginia Military Institute, 1939; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 25 Myrtle Street.

KITTAMS, WALTER HOWETH; B.S., Utah State Agricultural College, 1939; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; 23 Park Street.

LANDON, MELVIN VOORHEES; A.B., Williams, 1938; Graduate Assistant,

Department of Physics, College of Arts and Sciences; 406 Aubert; 60 Park Street.

MacBride, Dorothy Helena; B.A., University of New Brunswick, 1940; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 30A Coburn; 164 College Road.

Maass, Herman Martin; B.S., State College of Washington, 1939; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 43 Peters Street.

Marston, Merwin Abbott; B.S., Maine, 1939; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; Phi Mu Delta House.

Merrill, Virginia Tuttle; B.A., Maine, 1940; Graduate Assistant, Department of Mathematics and Astronomy, College of Arts and Sciences; 135 Stevens; Bennoch Road.

Osborne, John Clark; B.S., Virginia Polytechnic Institute, 1939; Graduate Fellow in Animal Pathology, College of Agriculture; Poultry Building; 25 Myrtle Street.

Peacock, Norman Morrow; B.S. in Arts, University of New Brunswick, 1939; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 430 College Road.

Rogers, John Clinton; B.S., Vermont, 1940; Graduate Fellow in Dairy Husbandry, College of Agriculture; 28 Rogers; 40 College Road.

Shigley, James William; B.S., Pennsylvania State, 1940; Graduate Fellow in Biochemistry, College of Agriculture; 15 Winslow; 38 Oak Street.

Simpson, Verne Gerald; B.S., South Dakota State College, 1940; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 430 College Road.

Smith, David Patterson; B.S., Virginia Military Institute, 1940; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 43 Peters Street.

Stinchfield, Roger Maxim; B.S., Maine, 1939; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 52 Park Street.

Takos, Michael James; B.S., Pennsylvania State, 1940; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; 4 Myrtle Street.

Thurston, Frederick Clark; B.A., Maine, 1940; Graduate Assistant, Department of English, College of Arts and Sciences; 345 Stevens; 183 Hammond Street, Bangor.

Topping, Francis Lawrence; B.A., 1935; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 25 Coburn; 45 Peters Street.

WALSH, JOHN HENRY; B.S., University of Scranton, 1940; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 30 Coburn; 38 Pierce Street.

WETHERBEE, WILLIAM HOWARD; Assistant, Department of Speech (Technical Director of Theatre), College of Arts and Sciences; 330 Stevens; 54 Pine Street.

WRIGHT, CHARLES MILTON; B.S., Illinois, 1940; Graduate Fellow in Botany, College of Agriculture; 26 Coburn; 43 Main Street.

YOUNG, HUGH EDWIN; B.S. in Ed., Maine, 1940; Graduate Assistant, Department of Economics and Sociology, College of Arts and Sciences; 46 Stevens, South; 33 Peters Street.

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Delmar Simon Fink, Ph.D.
John Henry Hawkins, Ph.D.
Millard George Moore, M.S.
Archibald Frank Ross, Ph.D.

Faculty of Investigation

ARNO, JOHN RAYMOND, Assistant Soil Surveyor.
B.S., Maine, 1936; M.S., 1938.

BAILEY, RUSSELL MANLEY, Associate Geneticist.
B.S., Maine, 1928.

BONDE, REINER, Associate Plant Pathologist.
B.S., Minnesota, 1922; M.S., Maine, 1926; Ph.D., Minnesota, 1938.

BRAUTLECHT, CHARLES ANDREW, Chemist.
Ph.B., Yale, 1906; Ph.D., 1912.

BURGESS, IVA MERCHANT, Assistant Geneticist.
B.S., Maine, 1923; M.S., 1925.

CHADWICK, FRANK NEWTON, JR., Assistant in Biology.
B.S., Maine, 1936.

CHANDLER, FREDERICK BARKER, Associate Plant Physiologist.
B.S., Maine, 1928; Ph.D., Maryland, 1939.

CHUCKA, JOSEPH ANTHONY, Agronomist.
B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930.

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

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

DOW, GEORGE FARRINGTON, Associate Agricultural Economist.
B.S., Maine, 1927; M.S., 1929; Ph.D., Cornell University, 1938.

ENNIS, WILLIAM BRICE, JR., Graduate Fellow.
B.S., Tennessee, 1939.

FINK, DELMAR SIMON, Associate Agronomist.
B.S., Wisconsin, 1930; M.S., 1931; Ph.D., 1934.

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

GETCHELL, JOHN SIMMONS, Assistant in Bacteriology.
B.A., Maine, 1936; M.S., 1939.

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

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

HARRINGTON, JOSEPH LEONARD, Assistant in Agronomy.
B.S., Maine, 1940.

HAWKINS, ARTHUR, Assistant Agronomist.
B.S., Rutgers, 1934; M.S., 1936.
HAWKINS, JOHN HENRY, Associate Entomologist.
B.S., Illinois, 1926; M.S., Maine, 1927; Ph.D., Cornell University, 1935.
HILBORN, MERLE TYSON, Assistant Plant Pathologist.
B.S., Maine, 1932; M.S., 1934; Ph.D., Yale, 1940.
HINCKS, MAYNARD ALTON, Assistant in Agricultural Economics.
B.S., Maine, 1932; M.S., 1935.
INMAN, CHARLES CLYDE, Administrative Assistant.
LATHROP, FRANK HEIDTMAN, Entomologist.
B.S., Clemson, 1913; M.S., Ohio State, 1915; Ph.D., 1923.
LOVEJOY, DELMAR BOYNTON, Assistant Soil Surveyor.
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MAGUIRE, MARIE LOUISE, Assistant in Biology.
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MASON, IRVIN CARROLL, Assistant in Plant Physiology.
B.S., Maine, 1930; M.S., 1932.
MERCHANT, CHARLES HENRY, Agricultural Economist.
B.S., Cornell University, 1920; M.S., 1922, Ph.D., 1928.
MERRILL, EDWARD OSGOOD, Assistant in Chemistry.
B.S., Maine, 1938.
MONROE, MERNA MYRTHA, Assistant Home Economist.
B.S., Iowa State College, 1929; M.S., Kansas State College, 1932.
MOORE, MILLARD GEORGE, Assistant Chemist and Associate Bacteriologist.
B.S., Maine, 1919; M.S., 1930.
MURPHY, ELIZABETH FLORENCE, Assistant in Biology.
B.A., Maine, 1930; M.A., 1934.
PERKINS, GLENN HAROLD, Assistant Chemist.
B.S., Maine, 1930; M.S., 1931.
PERRIN, DONALD HERBERT, Assistant in Entomology.
B.S., Maine, 1939.
PLUMMER, BERNIE ELLIOTT, JR., Associate Chemist.
B.S., Maine, 1924; M.S., 1925.
ROSS, ARCHIBALD FRANK, Associate Biochemist.
B.S., Missouri, 1933; M.A., 1934; Ph.D., Wisconsin, 1937.
SCHRUMPF, WILLIAM ERNEST, Assistant Agricultural Economist.
B.S., Maine, 1928; M.S., 1930.
SIBLEY, CHARLES BYRON, Assistant in Bacteriology.
B.S., Maine, 1937.
SIMPSON, GEDDES WILSON, Assistant Entomologist.
A.B., Bucknell, 1929; A.M., Cornell University, 1931; Ph.D., 1935.

STEINBAUER, GEORGE PETER, Seed Analyst.
B.S., Minnesota, 1925; M.S., 1927; Ph.D., 1929.
SWEETMAN, MARION DEYOE, Collaborating Home Economist.
B.S., Iowa State College, 1921; M.S., 1922; Ph.D., Minnesota, 1927.
TOBEY, ELMER ROBERT, Chemist.
B.S., Maine, 1911; M.S., 1917; Ch.E., 1920.
UPTON, FRANK ERIC, Assistant in Agronomy.
B.S., Maine, 1940.
WATSON, ANDREW ELWELL, Assistant Agricultural Economist.
B.S., Maine, 1934; M.S., 1936.
WHITE, CHARLES HARRY, Associate Chemist and Photographer.
Ph.C., Maine, 1899.

MAINE TECHNOLOGY EXPERIMENT STATION

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Warren Herbert Bliss, M.S., E.E., Assistant Professor of Electrical Engineering

Robert Bruce Bradford, B.S., Highway Laboratory Assistant Engineer

Charles Andrew Brautlecht, Ph.D., Professor of Chemistry and Chemical Engineering

John George Leslie Caulfield, M.S., Assistant Professor of Pulp and Paper Technology

Paul Cloke, E.E., Eng.D., Director; Dean of the College of Technology; and Professor of Electrical Engineering

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Irwin Bruce Douglass, Ph.D., Assistant Professor of Chemistry

Weston Sumner Evans, M.S., Professor of Civil Engineering

Arthur St. John Hill, M.S.E., E.E., Professor of Electrical Engineering

Lyle Clayton Jenness, M.S., Associate Professor of Chemical Engineering

Harold Walter Leavitt, M.S., C.E., Secretary, and Testing Engineer, Professor of Highway Engineering; and Testing Engineer, Maine State Highway Commission

Matthew McNeary, B.S., Instructor in Engineering Drafting

William John Nolan, Ph.D., Associate Professor of Chemical Engineering

*Carl Everett Otto, Ph.D., Associate Professor of Chemistry

Horace Asa Pratt, M.S., Assistant Engineer

Clayton Leonard Sawyer, B.A., Highway Laboratory Assistant Chemist

Theron Alonzo Sparrow, M.S., Assistant Professor of Mechanical Engineering

John Henry Sweatt, B.A., Bituminous Chemist for the Maine State Highway Commission

Joseph Muzzy Trefethen, Ph.D., Assistant Professor of Geology in the Department of Civil Engineering

Harry Dexter Watson, M.S., Professor of Mechanical Engineering

* On leave of absence, 1940-41.

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
Pauline Smith Budge, Assistant State Club Leader.
B.S., Maine, 1935
Charlotte Elizabeth Cleaves, Clothing Specialist.
B.S., Maine, 1931
Edna Mansfield Cobb, Home Management Specialist.
B.S., Cornell University, 1928
Ralph Ashton Corbett, Assistant Dairy Specialist.
B.S., Maine, 1930
Leone Mae Dakin, Foods Specialist.
B.S., Maine, 1926
Clarence Albert Day, Extension Editor.
M.S., Maine, 1929
Richard Carlton Dolloff, County Agent Leader.
B.S., Maine, 1927
Albert Kinsman Gardner, Crops Specialist.
B.S., Maine, 1910
Milon George Huber, Extension Agricultural Engineer.
B.S., Wisconsin, 1929; B.S., 1932
Kenneth Cousins Lovejoy, State Club Leader.
B.S., Maine, 1928
Gustavus Abbott McLaughlin, Extension Economist, Farm Management.
B.S., Maine, 1937
Stacy Ross Miller, Land Use Planning Specialist.
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, Home Demonstration Agent Leader.
B.S., Maine, 1922
ALBERT DEANE NUTTING, Forestry Specialist.
B.S., Maine, 1927
DONALD WINSLOW REED, Extension Economist, Marketing.
B.S., Maine, 1922
FRANK DUDLEY REED, Poultry Specialist.
B.S., New Hampshire, 1929
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
CHARLES LESLIE EASTMAN, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1922
FRANK WILBUR HAGAN, Somerset County.
B.S., Maine, 1933
CLYDE ELWIN HIGGINS, Washington County.
B.S., Maine, 1936
JOHN WINSTON HOYT, Franklin County.
B.S., Maine, 1935
BRYCE MEREDITH JORDAN, Assistant County Agent, Aroostook County.
B.S., Maine, 1926
RAYMOND HARWOOD LOVEJOY, York County.
B.S., Maine, 1918
WESLEY SPAULDING NORTON, Kennebec County.
B.S., Maine, 1935
PHILIP STEWART PARSONS, Waldo County.
B.S., Maine, 1934
WILLIAM SLOAN PLUMER, District County Agent, Cumberland and York Counties.
B.S., Ohio State, 1936

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
Hubert Tracy, Assistant County Agent, Aroostook Coun
B.S., Maine, 1931
Ralph Carlton Wentworth, Knox and Lincoln Counties.
B.S., Maine, 1918

Home Demonstration Agents

Hortense Bradbury, Washington County.
B.S., Maine, 1935
Mary Ellen Buck, Kennebec County.
B.S., Maine, 1940
Ruth Isabel Callaghan, Oxford County.
B.S., Maine, 1933
Agnes Freyer Gibbs, Cumberland County.
B.S., Framingham Normal, 1926
Barbara Higgins, Waldo County.
B.S., Maine, 1930
Gladys Winnifred Marble, York County.
S.B., Simmons, 1919
Sara Louise McComb, Piscataquis County.
B.S., Farmington, 1934
Margaret Hall Peaslee, Aroostook County.
B.S., Maine, 1940
Dorothy Elizabeth Phair, Somerset County.
B.S., Maine, 1940
Lucinda Ewer Rich, Knox and Lincoln Counties.
B.S., Maine, 1937
Ada Mildred Rogers, Hancock County.
B.S., Farmington Normal, 1934
Jennie May Swett, Penobscot County.
B.S., Nasson, 1933

Mary Louise Wright, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1938
——————, Franklin County.

County Club Agents

Spurgeon Kearney Benjamin, Waldo County.
B.S., Maine, 1935
Earle Theodore Blodgett, York County.
B.S., Maine, 1927
Helengrace Lancaster, Kennebec County.
B.S., Maine, 1940
Herbert Arthur Leonard, Cumberland County.
B.S., Maine, 1939
Elizabeth Libbey, Penobscot County.
B.S., Maine, 1940
Walter Edwin Potter, Oxford County.
B.S., Maine, 1940
Wayne Schermerhorn Rich, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1934
Anna Margaretha Simpson, Knox and Lincoln Counties.
B.S., Maine, 1940
Deborah Florence Stevens, Aroostook County.
B.S., Maine, 1939

Committees of the University Faculty

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

Coe Research Fund—Dickinson, Ashby, Brautlecht, Griffee, Hill, A. S., Hitchner, Peterson, Steinmetz.

Educational Research—Crawford, Bennett, C. E., Brautlecht, Brush, Bryan, Dow, E. F., Evans, Greene, Jackman, Jones, Kirshen, Lamson, Leavitt, Merchant, Sweetman, Watson, H. D.

Eligibility—Gannett, Curtis, T. S., Sprague, Wilson, E. G.

Financial Affairs—Doten, Kent, Pierce.

Health—Corbett, Hall, W. C., Lengyel, Wallace, Wilson, E. G.

Maine Studies—Hitchner, Bradt, Ellis, Ibbotson, Lutes, Morrow, Peterson.

Military—Alcott, Hauck, Allen, Cloke, Deering, Lutes.

Publications—Gannett, Crawford, Ibbotson, Leavitt, Libby, W. C.

Publicity—Coggeshall, Bray, Crawford, Crossland, Gannett, Smyth.

Radio—Crossland, Crawford, Creamer, Dusenbury, Larsen, Lathrop, Loring.

Rhodes Scholarship—Ashby, Bradt, Corbett, Gannett, Morrow.

Schedule—Gannett, Dorsey, Evans, Jordan, Weston, and College Deans.

Secondary School Relations—Crane, Allen, Cloke, Deering, Lutes.

Scholarships—Brann, Chadbourne, A. H., Crane, Creamer, Ellis, Greene, Loring, Wilson, E. F.

Social Affairs—Stewart, Corbett, Libby, W. C., Watson, H. D., Wilson, E. G.

Women Students—Wilson, E. G., Buzzell, Chadbourne, A. H., Crandon, Greene, Lengyel, Sweetman.

GENERAL INFORMATI

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 originally located in Bangor in proximity to the several courts holding regular sessions in that city. Later it was located on the campus at Orono. The College of Law 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 3,300 population, on the main line of the Maine Central Railroad. It is about half way between Kittery, the most southerly town in the State, and Fort Kent, the most northerly; it is thus not far from the center of population of the State.

The extensive campus of over two hundred acres, situated about a mile from the business section of Orono, borders the Stillwater River, a branch of the Penobscot, and is of great beauty. The University is approximately nine miles distant from Bangor and three miles from Old Town. Route 2, passing the campus, connects it with these cities and offers easy access by automobile.

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 various advantages. Old Town is a manufacturing city with about 7,300 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

Balentine Hall (1914-1916).—A women's dormitory, with accommodations for 115 students and an infirmary. Named in honor of Elizabeth Abbott Balentine, secretary and registrar of the University, 1894-1913.

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

Estabrooke Hall (1940).—A women's dormitory consisting of two sections with accommodations for 160 students. Named in honor of Kate Clark Estabrooke, a former superintendent of the first women's dormitory, the Mt. Vernon House.

The Elms.—A women's cooperative dormitory located on College Road near the Stillwater bridge and accommodating fifty-four students.

Hannibal Hamlin Hall (1911).—A freshman men's dormitory with accommodations for 153 students. Named for the Hon. Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees.

North Hall.—A freshman men's dormitory with accommodations for twenty-eight students.

Oak Hall (1937).—A modern, fireproof dormitory housing ninety-five freshman men students. This new building, like the "Oak Hall" built in 1871, which it replaces, is named for the Hon. Lyndon Oak, of Garland, a long-time member and president of the Board of Trustees.

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, consisting of an Indoor Field, Armory, and Gymnasium, was erected as a memorial to the Maine men who died in the service of their country in the Spanish-American and World Wars. It cost nearly $500,000, and is the gift of alumni, students, faculty, and friends of the University. The Indoor Field (1926), one of the largest in the country, provides ample facilities for indoor track, winter baseball practice, and military drill. The Armory (1926) houses offices and classrooms of the military unit, including an indoor rifle range. The Gymnasium (1933) contains the offices of the Athletic and Physical Education departments, equipment and training rooms for handball, boxing, wrestling, and corrective exercise, shower and locker rooms for students, faculty, and visiting teams, and an auditorium with a seating capacity of approximately 2,500, used for basketball, lectures, student assemblies, banquets, and dances.

Aubert Hall (1914) houses the Departments of Chemistry and Chemical Engineering, including the Pulp and Paper Division, and Physics. It was named in honor of Alfred Bellamy Aubert, professor of chemistry from 1874 to 1909. A wing was added in 1940 to increase the facilities in Chemical Engineering and the Pulp and Paper Division.

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 offices of the Alumni Association and the Placement Bureau, the University Store, and the quarters of the Health Department. It was named in honor of ex-President Merritt Caldwell 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, a former president of the Board of Trustees.

Merrill Hall (1931) is devoted to work in Home Economics. It was named for Dr. 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, Class of '96, 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 late Hon. Edward B. Winslow, of Portland, a former president of the Board of Trustees.

Other 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, Men's Infirmary, Print Shop, Home Management House, the Central Heating Plant, the President's house, several 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 are carried on at the Station in the summer.

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, Sigma Nu, Theta Chi, and the Phi Eta Kappa Society have houses on the campus. The following chapters own houses in the vicinity of the University: Alpha Gamma Rho, Alpha Tau Omega, Phi Gamma Delta, Phi Mu Delta, and Tau Epsilon Phi. 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 straight-away, and is graded and laid out for football and track and field athletics. It contains grandstands with a seating capacity of 7,300 and also bleachers seating 2,600. New additions include varsity and freshman baseball grounds, regarded as two of the best in New England and conforming to all major-league field requirements, a freshman football field, seven clay tennis courts and one hard-surface court, and a hammer field.

Athletic Field for Women.—A field on the southern end of the campus consists of a regulation hockey field, archery range, two tennis courts, and a large practice area. It is well lighted by flood lights for late afternoon activities. A field house on the western border 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 670 acres divided into two farms, one of which adjoins the campus while the other is located in Stillwater. The land under cultivation amounts to 267 acres, divided as follows: 217 acres for farm crops, 10 acres for orchards, 2 acres for the forest nursery, 18 acres for poultry lots, and 20 acres for systematic forestry. The remaining 403 acres are forest and pasture lands. These farm lands, together with the campus, make the University holdings at Orono and vicinity approximately 775 acres. The University also has the use of 2,088 acres of land, mostly forest, under a lease from the government.

THE LIBRARY

The University Library contained, at the end of the academic year, an estimated 172,428 volumes and pamphlets, including the following: Law Library, 5,600 volumes, available for reference at the Court House in Bangor; Agricultural Experiment Station Library, 10,350 volumes, on deposit in the library building; State of Maine Collection, 6,000 volumes, shelved in the Maine Room and provided with a special card catalog; the Clinton L. Cole Marine Library, 600 volumes, in memory of Clinton L. Cole, Maine '00; University Collection, including publications by and about the University of Maine, its faculty, alumni, and students. About 2,200 graduate and undergraduate theses of the University of Maine are cataloged and available for reference. Files of *The Campus* and *The Maine Alumnus* have been indexed on cards. The Library receives currently about 750 periodicals, the Agricultural Experiment Station, 200.

In addition to the reference and periodical rooms, the Library provides special reading rooms for Agriculture, Education, and Technology, where are assembled the books, periodicals, indexes, and abstracts pertaining to these subjects.

The library building, the gift of Andrew Carnegie, was built in 1906. The installation, in 1937, of a new lighting system, acoustical tiled ceilings, heat control, ventilating units, and new floor coverings has resulted in greatly improved conditions for study.

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.

While the University Library is not equipped to supply books to individuals outside the University, it is glad to lend books to other libraries and to graduates of the University when it can be done without interference with local needs. Transportation charges are payable by the borrower. Individuals wishing to borrow books should first consult their local librarian, who will forward the request, whenever necessary, to the State Library. The State Library, acting as a clearing house for book loans between libraries in the State when it cannot completely supply the material needed, may forward the request to another library.

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 (Excepting Vacations and Holidays)

8 a.m.—10:30 p.m. Monday-Thursday
8 a.m.—9 p.m. Friday
8 a.m.—5 p.m. Saturday
2 p.m.—10:30 p.m. Sunday

THE ART COLLECTION

The place of the Fine Arts in a college curriculum in extending the range and balance of the so-called cultural studies has been recognized at Maine for many years, and the art-teaching apparatus has grown to some 7,000 reproductions covering every important school and period of western art from the earliest Egyptian down to the "modern." The collection has been built up on the theory that architecture, sculpture, and painting have their recognized places in the story of human progress, and that these forms of expression have much to convey to the students of history, letters, and present-day social problems as well as to the special student of art.

The Carnegie Corporation gift of nearly 2,300 reproductions, many of these in color, gave the collection so much impetus in 1935 that special quarters for exhibition purposes were provided in the summer of 1937. The third floor of the south wing of Stevens Hall was made over into a gallery space of two rooms. The wall footage of the larger hall was augmented by a dozen movable panels, providing thus some 700 square feet additional hanging space. This room displays approximately 600 reproductions, presenting a

sketch of western art over a period of 5,000 years. Special stress is given to the art of ancient Greece, the Gothic age, and the period of the Italian Renaissance.

Much of the instruction is given in the gallery, and students are required to use this display in meeting the requirements of the different courses. In fact, the gallery stands in about the same relation to the work of the art department that the laboratories do to the departments of science. The historical and progressive point of view is kept before the eye by adequate labeling, dating, and period hanging or grouping.

A plan for loaning framed pictures to students was inaugurated in 1939. Gifts and purchase made possible a special collection of about one hundred pictures for this purpose. Any student may borrow one at a time of these, returnable at the pleasure of the student. Selections from these pictures are also free to dormitories and fraternity houses for a semester period. There are no other formalities for the loan than for drawing a book from the library.

Several exhibits have been arranged for state-wide circulation among clubs, schools, and libraries.

1. Two exhibits of fifteen framed pictures, facsimiles of masterpieces of painting.
2. A collection of mounted prints in color covering the history of painting. These are sent out in groups of twelve each with descriptive reading matter.
3. A set of twenty framed photographs (21 x 27) showing notable European buildings and statuary. These are loaned in sets of two each.
4. Three folios, especially adapted for class-room use:
   "Elizabethan England," the Boston Museum's publication of forty-one contemporary pictures of England's grand epoch;
   "Greek Athletics of the Fifth Century"; and
   "Renaissance France."

Reading matter goes with each exhibit, to afford historical and artistic data. The time limit on these loans varies from one to four weeks. Transportation in all cases is borne by the subscriber.

The gallery is open to students and public alike on week days from 9:00 a.m. to 12:00 noon and from 2:00 to 5:00 p.m., and on Sundays from 2:00 to 5:00 p.m.

The cabinets and cases containing the major part of the photographic collection are accessible for students and faculty in Room 36, South Stevens.

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.—The herbarium includes several collections, 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. The late Professor F. L. Harvey left to the herbarium the general collections accumulated during his connection with the University. 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, and Cummings and Seymour's North American Lichens.

Geology.—The geological collections of minerals, rocks, and fossils are stored on the third floor in Fernald Hall. One case, containing mineralogical specimens, is located in the Agricultural Engineering Building.

UNIVERSITY PUBLICATIONS

Maine Bulletin.—A publication issued monthly from August to May inclusive with two issues in the month of February and three 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 and Other Bulletins of the Agricultural Experiment Station.—The annual report gives a brief summary of the progress during the year on the various research projects together with pertinent weather and financial data. Other bulletins present results of completed studies or certain phases of studies for which data have been obtained sufficient to warrant conclusions.

Official Inspections bulletins contain the results 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. A list of available free publications will be mailed to

any Maine resident who makes the request. News releases are sent to all weekly and daily newspapers in the State. Information is also disseminated through regular radio broadcasts by county extension agents in four counties.

Technology Experiment Station Publications consist of bulletins and papers 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 who subscribe through the payment of alumni dues.

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 and one for women. 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.

PLACEMENT BUREAU

A University Placement Bureau was inaugurated in 1935 by the University in cooperation with the General Alumni Association to offer to graduates, students, and employers a centralized placement service. The Bureau is administered with a threefold purpose, namely: (1) to discover and to increase opportunities for employment of Maine students and graduates in all fields of work other than teaching; (2) to gather 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 cooperate with the University departments in helping graduates to discover the kinds of employment for which their total qualifications fit them in order to decrease as much as possible the changes and readjustments of post-graduate employment.

No charge to students, first-year graduates, or employers is made, although a nominal fee to cover clerical costs is charged older alumni placed through the assistance of the Bureau. The duties of the Bureau also in-

clude 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 and graduates possible to locate satisfactory employment, and will welcome inquiries from employers regarding its policies and services.

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.

STUDENT ACTIVITIES

Cooperative Government

Student Senate.—The Student Senate comprises representatives from the following groups: (a) the several fraternities, (b) the Women's Student Government, (c) the dormitories, (d) the off-campus men. As an assembly truly representative of the student body, it is recognized by the faculty and the administration as the official organ of the student body in all matters that call for discussion and adjustment between the student body and the administration. 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.

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. The Council, composed of representatives of the several dormitories and of the off-campus, sorority, and non-sorority women, acts as an executive committee and carries on the business of the organization.

Religious Activities

Maine Christian Association.—The Maine Christian Association, serving students of all religious faiths, 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 cooperating 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 cooperating 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 and the date at which a chapter was established at the University.

Phi Kappa Phi (1900).—All colleges and the School of Education.
Alpha Zeta (1906).—Agriculture.
Kappa Delta Pi (1932).—School of Education.
Omicron Nu (1931).—Home Economics.
Phi Beta Kappa (1923).—College of Arts and Sciences.
Tau Beta Pi (1911).—Engineering.
Xi Sigma Pi (1917).—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.
Branch of the American Society of Mechanical Engineers.
Branch of the American Home Economics Association.
Scabbard and Blade.—Military.

Departmental Clubs

Agricultural Club.
Biology Club.—Biology.
Cercle Français.—French.
Circulo Español.—Spanish.
College 4-H Club.—Boys' and Girls' Agricultural and Home Economics Clubs.
Contributors' Club.—Creative writing.
Deutscher Verein.—German.
Education Club.
Forestry Club.
Home Economics Club.
Maine Masque.—Dramatics.
Sigma Delta Zeta.—Mathematics.
Sigma Mu Sigma.—Psychology.

Musical Organizations

University Band.—This organization is attached to the Military Department. Rehearsals are credited as regular class work under the Military and Music Departments. A particular aim is to develop leadership, and to this end, in coordination 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 gives concerts.

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 comprise 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 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 Christmas Vespers and Music Night programs. 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).

Student Publications

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

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

Maine Forester.—A magazine published annually by the students in the Department of Forestry.

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 Ver-

mont, 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.

The Women's Forum

The Women's Forum is an organization open to all women students of the University and offers an opportunity to meet informally with members of the faculty and other guest speakers and discuss controversial subjects. The group meets informally for tea and discussion twice a month. The Forum is sponsored by the Debate Club.

CHURCH SERVICES

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

143652

ADMISSION

ADMISSION TO THE FRESHMAN CLASS

General Requirements

Candidates for admission to the freshman class should apply to the Director of Admissions 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). *It is advisable to file application as early as* **March first** *to facilitate admission and room assignment for entrance the following September.*

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 admission 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. If the applicant has not been vaccinated within this period, it is recommended that he or she be vaccinated *early in the summer* in order to be well over the effects of the inoculation, if any, before the opening of college.

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 62) and are fully recommended by their principal.

The University is interested in candidates whose character, scholastic attainments, aptitudes, interests, industry, 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.

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:

A. From the student. The candidate is required to submit a carefully answered questionnaire concerning favorite studies, school activities, community interests, hobbies, choice of college course, choice of a life work, and other matters bearing upon preparation for a college course. So far as possible, a personal interview will be arranged with each candidate. This information is required so that the University may better guide the students in selecting courses of study best suited to their individual abilities, aptitudes, and interests.

B. From the principal and others. The principal, teachers, and adult acquaintances, known to the applicant, are asked to give confidential information regarding character, personality, school and community activities, and intellectual capacity and ability to successfully pursue a college course.

Candidates from Maine schools may also gain admission by supplementing their school records with satisfactory grades through specified entrance examinations.

Admission from Schools Outside of Maine

Candidates from secondary schools outside of Maine may 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, or by entrance examinations of the University of Maine. 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. Supplementary information is also required as stated in paragraph "B" under "Admission from Schools in Maine."

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 third week in May. On request of any principal the University will send the necessary examination papers. Such requests should be received before May 10.

The examinations given by the College Entrance Examination Board will be accepted by the University. These examinations will be held June 14-20. 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. Application must be made before May 26 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 are as follows:

College of Agriculture
(Including Forestry and Home Economics)

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

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 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.

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

† For admission to the Agricultural Engineering, Bacteriology and Forestry curricula two units of algebra 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
General Math.	½	1		½ or 1		½ or 1		½ or 1
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
Prob. of Democracy	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						
Typewriting	‡½	1						
Commercial Subjects	½	4						
Music	½	2		½ or 2		½ or 2		½ or 2
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 candidates 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 is at the rate of one-half unit for a subject taken five forty-five minute periods per week for a year.

§ See both footnotes at bottom of page 63.

†† Latin or French preferred.

Requirements in Detail

ENGLISH

The course in Freshman 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.* Experience shows that students who have had insufficient practice in writing in school are apt to have trouble in their college English.

The entrance examination is of an objective nature and is designed to test such matters as grammatical structure, spelling, capitalization, vocabulary, and literature.

FOREIGN LANGUAGES

Latin.—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. If three years of Latin are taken, one semester should be devoted to the reading of selections from Cicero, and one semester to selections from Vergil.

3. If four years of Latin are taken, not less than one semester each should be devoted to Cicero and Vergil and the remaining time can be given to such authors as Sallust, Livy, and Ovid.

II. *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.—I. *Elementary.*—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 sen-

tences 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.*—Those who desire credit for three units should be able to read more prose and verse of moderate difficulty and to write a short composition upon subjects 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.—The equivalent of Course 1, 2 offered by the University.

Spanish.—The equivalent of Course 1, 2 offered by the University.

HISTORY

Greek and Roman History (Ancient 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.

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.

American History.—Emphasizing political, social and economic aspects. One unit.

Medieval and Modern History.—One unit.

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

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

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

Problems of Democracy (Senior Year).—Qualified courses accepted through arrangements with Director of Admissions. 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, 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, exponents and radicals, binomial theorem with integral exponents, logarithms.

Trigonometry.—One-half unit. A half-year course using any standard textbook which covers the definitions of the functions, the proofs of the standard formulas, proofs of identities, the solution of right and oblique triangles by natural functions and by logarithms. Other 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, 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 them and of their 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, as is necessary for the solution of equations of higher degree with numerical coefficients; solutions of the general cubic and biquadratic equations.

General Mathematics.—Qualified courses accepted through arrangements with the Director of Admissions.

SCIENCES

Biology.—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure,

functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

Chemistry.—Preparation in chemistry should embody a reasonable grasp of the basic principles of the science, which can be secured by a continuous course of one year dealing with the common metallic and non-metallic elements in terms of fundamental chemical laws; familiarity with laboratory technique; and a permanent record of laboratory work in clear, concise English. A good elementary textbook and laboratory manual will furnish the basis for this preparation.

Physics.—The requirement in entrance Physics is met by a one-year course in an approved secondary school covering the fundamental topics in mechanics, heat, sound, electricity, magnetism, and light. The course should include laboratory, amounting to approximately one period a week, and the notebook should be certified by the instructor in charge.

ADMISSION OF SPECIAL AND SHORT COURSE STUDENTS

Special Students.—In exceptional cases a person may be classified as a special student. Such a student is not a candidate for a degree but will be registered by the dean or deans concerned.

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. Students who contemplate later transfer to the regular four-year curriculum must satisfy entrance subject requirements to the College of Agriculture.

ADMISSION BY TRANSFER

A student desiring to transfer to the University of Maine from another college of recognized standing should file application, before August first, with the Director of Admissions. This request should include a statement of the names and addresses of all high schools, preparatory schools, normal schools, junior colleges, colleges and universities attended as well as information indicating the desired curriculum.

The applicant will arrange for official transcripts to be forwarded directly from all previously attended normal schools, junior colleges, colleges and universities to the Director of Admissions, University of Maine. Catalogs from all institutions attended should be forwarded to the Director of Admissions.

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 will be accepted.

Upperclassmen.—In the fall semester of 1941, upperclassmen will be required to register on September 16, or to present written evidence that they have been excused from so registering by the University authorities. In other words, upperclassmen must before September 16 have communicated with the dean of their college giving him their reasons for desiring to register late, and have received from him written authorization so to do. 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. The charge for board and room in the cooperative dormitory is 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 and Room	323.00			323.00		
Special Assessment for Student Activities	10.50			10.50		
Health Service Fee	4.00			4.00		
	$512.50	to	$537.50	$612.50	to	$637.50

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 student activities.

Civil Engineering Summer Camp tuition for University of Maine students is $15.00. All other students are charged regular Summer Session tuition.

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 $2.00.

Rooms

The rooms in Balentine Hall and Estabrooke Hall accommodating one and two students each, and those in Colvin Hall, accommodating two and four students each, are available to women students. The rooms in the Elms, the cooperative dormitory for women, accommodate two and three students each. Selection for the cooperative dormitory is based on financial need, cooperation, 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. The rooms in North Hall accommodate one, two, and three students each. Oak Hall, Hannibal Hamlin Hall, and North Hall are freshman dormitories for men. Men assigned to these dormitories are required to live in these halls throughout their freshman year.

The rooms in the dormitories are furnished with beds, mattresses, chiffoniers, desks, and chairs. Students furnish pillows, bed linen, and blankets. The beds are single cot size. Each resident in the dormitory may have bed linen and three towels laundered each week without charge.

Dormitories will be closed to students during the three scheduled recess periods.

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 admission cards. 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.

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	161.50	161.50
Key Deposit (men only)	5.00	5.00
Military Deposit (required of all men taking military instruction)	20.00	20.00

Special Assessment for Student Activities	5.25	5.25
Health Service Fee	2.00	2.00
Freshman Week (Freshmen only)	8.00	8.00
	$276.75	$326.75

For students who do not room and board in University halls, the above amounts are reduced by $166.50.

All men taking military are required to make a deposit of $20.00 to cover cost of equipment. This deposit is returned at the end of the year, less charges for goods furnished and lost or misused equipment.

For students in the Two-Year Course in Agriculture, the deposit required for tuition is $35.00, and $2.00 Health Service Fee.

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

Application for loans should first be made to the Dean of Women by women students and to 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.

American Agriculturist Foundation Loan Fund.—This fund was inaugurated by the American Agriculturist Foundation, Inc., to enable deserving junior and senior students in Agriculture and Home Economics to complete their education. The fund is administered by a loan committee, of which the Dean of the College of Agriculture is chairman.

American Institute of Electrical Engineers Loan Fund.—This fund, now amounting to over $185, was established by the University of Maine Branch in 1918 for the purpose of assisting needy students majoring in electrical engineering.

The Bangor Business and Professional Women's Loan Fund.—This fund, now amounting to over $1130, 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.

Boston Alumnae Fund.—This is a fund now amounting to over $600, available for women of high scholastic standing who have completed at least two years of college work. Loans shall in no case exceed $200.

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."

Class of 1914 Loan Fund.—This fund, the gift of the Class of 1914 amounting to over $720, is available for loans to needy upperclass students.

Class of 1926 Loan Fund for Seniors.—This fund, the gift of the Class of 1926, amounting to over $1260, 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.

Delta Chi Alpha Loan Fund.—This fund, the gift of Delta Chi Alpha Fraternity, amounting to over $690, is available for loan to a male member of the senior class whose average college grade has been equivalent to "C" or better. The amount loaned each year is limited to $50.

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.

Esther Eayres Chapter, Daughters of American Revolution Loan Fund.—This fund, amounting to over $210, 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.

General Loan Fund.—This fund, now amounting to over $3070, 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 over $230, was donated by the Kappa Psi Sorority during the spring of 1933, to be used for the benefit of women students.

Kittredge Fund.—This fund, amounting to over $2350, 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.

The Maine Alumni Association of Boston Loan Fund, established in 1940, aims to be helpful particularly to male students whose homes are in Massachusetts, though any male student at the University is eligible for a loan from this fund. Loans are made on the basis of need, character, scholastic standing, personality, and leadership in extracurricular activities.

Maine Campus Fund.—This fund, the gift of the *Maine Campus*, amounting to over $460, 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.

Charles H. Payson Loan Fund.—This fund, amounting to over $5810, was given by Mrs. Charles H. 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.

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 Maine. The fund at present amounts to over $4380. 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.

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.

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 $2300; and loans to one student shall not exceed $200 a year.

SCHOLARSHIPS

Forms for making application for scholarships may be obtained from the chairman of the Faculty Committee on Scholarships, or from the Registrar's Office, and should be returned to the Chairman before February 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 Scholarships, subject to the approval of the President.

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

Trustee Scholarships

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 the junior student having the highest scholarship rank in the University.

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.

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.

The Leon Stephen Merrill Scholarship, $150, in Agriculture, in honor of the Dean of the College of Agriculture from 1911 to 1933, is awarded as are the foregoing.

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.

The Maine Normal School Scholarships, three, of $150 each, are awarded on a competitive basis to Maine normal-school students who, after two years of training for elementary teaching, desire to transfer to preparation at the University for secondary-school teaching. Only those are eligible whose normal-school record places them in the highest decile of their class, whose principal recommends them as having personal qualities which indicate probable success in high-school teaching, and who enter the School of Education as juniors, *for two years* of preparation for that field.

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 Education, except that only one award may be given to any school. The highest ranking students 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 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.

Endowed Scholarships

The Hosea B. Buck Memorial Scholarships, the income from a fund of over $3000 raised through the University of Maine Foundation, of which Mr. Buck was a charter member, were established in 1938 by friends and alumni of the University, in memory of Hosea B. Buck, of the Class of 1893. One or more scholarships are awarded annually to students whose high character, qualities of leadership, creditable academic record, and financial need make them worthy of scholarship aid.

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) A high-ranking student in the College of Agriculture of good character and personality who, in the judgment of the Faculty Committee on Scholarships, is most deserving of the award.

The James Norris Hart Scholarships, the income of a fund established in 1937 by alumni, faculty, and friends, in honor of Dean Emeritus James Norris Hart, are awarded annually to entering students or upperclassmen

who have made satisfactory scholastic records, who have been leaders in extracurricular activities, and who merit and need financial aid.

The Philip R. Hathorne Scholarship was established in 1936 through a bequest of $5000 by the late David Ernest Hathorne, of Woolwich, Maine, and an additional gift of $2000 by Mrs. Carrie E. Hathorne, as a memorial to their son, Philip R. Hathorne, of the Class of 1923. The income is to be used to help needy students in the Civil Engineering curriculum, preference to be given to natives of Maine.

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 Carrol C. Jones Scholarship, the net income from a fund of $1000 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 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 Scholarships, with the approval of the President, to a student whose rank excels in his junior year.

The William Emery Parker Scholarship, the income from a one-thousand dollar bond donated by the late Hosea B. Buck, of the Class of 1893, in memory of William Emery Parker, of the 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 Stanley Plummer Scholarship, the income from 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 Scholarships. Students born in Dexter, Maine, shall have preference.

The Bertha Joy Thompson Scholarships, $100 each, established in 1935 through a bequest of $15,000 by the late Mrs. Bertha Joy Thompson, of Ellsworth, are awarded to students whose qualities of character, scholarship, initiative, and need make them worthy of financial assistance.

The Charles F. Woodman Fund, amounting to over $15,000, was established in 1939 through a bequest by the late Charles F. Woodman, of Auburn, Maine. The net income is to be used annually under the direction of the President and Trustees of the University for the assistance of deserving and needy students, "especially poor boys who are desirous and willing to work and earn an education."

Annual Scholarships

The Agricultural Club Scholarship, $50, is awarded annually to that male member of the junior class who, in addition to having been active in the Agricultural Club, has maintained a creditable academic record and needs and merits financial aid. Award is made by a committee comprising the Dean of the College of Agriculture as chairman, the Director of Short Courses in the College of Agriculture, and the Accountant of the University.

The Elizabeth Abbott Balentine Scholarship, $75, the gift of the Gamma Chapter of Alpha Omicron Pi, is awarded annually by the Committee on Scholarships 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 W. H. Bowker Scholarships.—The American Agricultural Chemcal 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 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 Maine Farm Bureau Fund Scholarship, $75, is awarded annually to a junior or senior student, resident of Maine, in the College of Agriculture, on a basis of character, scholarship, financial need, and qualities of leadership. The Dean of the College of Agriculture, the Secretary of the Farm Bureau Federation, and the Accountant of the University constitute the committee on award.

The Sears-Roebuck Agricultural Foundation Scholarships, fourteen, of $100 each, established in 1940, are available to Maine farm boys entering as Freshmen in the four-year course in agriculture. The award is made by a committee comprising the Dean of the College of Agriculture and such other as he may designate. The awards are to be based on character, scholarship, qualities of leadership and financial need. An additionl scholarship of $200 is to be awarded to that Sophomore who as one of the winners of the Freshman Scholarships achieves the most satisfactory record and is considered to be the most deserving from the standpoint of financial need and otherwise by the committee on awards.

The State of Maine Pi Beta Phi Alumnae Club Scholarship, $30, established in 1940 by the State of Maine Pi Beta Phi Alumnae Club, is awarded annually to a woman student on the basis of financial need, satisfactory scholarship, conduct, and the evidence of qualities of leadership.

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 March 1. Award is made by the Committee on Scholarships on recommendation of the Dean of Women and the Student Council.

Alumni Scholarships

The Chicago Alumni Association Scholarship, $50, 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 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 Class of 1909 Fund Scholarship, the income from a fund of $1000 presented to the University of Maine Foundation by the members of the Class of 1909 at their twenty-fifth reunion, is used for scholarship awards to worthy students in need of financial aid.

The Class of 1911 Scholarship, the income from a fund of $1000 donated to the University of Maine Foundation in 1936, is awarded annually to an upperclass student of good character and satisfactory conduct and rank, who possesses qualities of leadership and who needs and merits financial aid. Special consideration is given in the award to sons and daughters of members of the Class of 1911.

The Connecticut Alumni Association Scholarship, $50, established in 1935, is awarded annually to a needy and deserving student, with preference given to students from Connecticut.

The General Alumni Association Scholarship, 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 satisfatcory, who has been prominent in extracurricular 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 Scholarships and two alumni selected by the President of the General Alumni Association.

The Hancock County Alumni Association Scholarship, $50, established in 1939, is awarded annually to an upperclass student from Hancock County whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who merits and needs financial aid.

The Knox County Alumni Association Scholarship, $75, established in 1936, is awarded annually to a student from Knox County whose record and conduct have been satisfactory and who needs and merits help.

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 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 Scholarships, 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 grades in his courses in English.

The Northern Aroostook Alumni Association Scholarship, $50, established in 1935, is awarded annually to an upperclass student on a basis of satisfactory scholatsic record and conduct, financial need, and qualities of leadership.

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 Penobscot County Alumni Association Scholarships, two, of $50 each, first given in 1920, are awarded by the President, the executive secretary of the General Alumni Association, and the Committee on Scholarships 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 Piscataquis County Alumni Association Scholarship, $50, established in 1937, is awarded annually to an upperclass student whose home is in Piscataquis County, who has made a satisfactory record and who needs and merits financial assistance.

The Portland Alumnae Association Scholarship, $50, established in 1938 by the Portland Club of University of Maine Women, is awarded annually to a deserving upperclass woman whose home is in Cumberland County. The award is made upon the basis of need of financial assistance, satisfactory record and conduct, and evidence of qualities of leadership and of scholastic attainment.

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 extracurricular activities.

The Somerset County Alumni Association Scholarship, $50, established in 1936, is awarded annually to a needy and deserving senior or junior student from Somerset County.

The Southern California Alumni Association Scholarship, 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 Kennebec Alumni Association Scholarship, $50, established in 1937, is awarded annually to a needy and deserving student whose home is within the area of the Association. Preference is to be given to juniors and seniors.

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 Scholarships, subject to the approval of the Executive Committee of the Association.

The Western Massachusetts Alumni Association Scholarship, $50, established in 1935, is awarded to a needy and deserving student from western Massachusetts.

The Western Pennsylvania Alumni Association Scholarship, $30, established in 1905, is awarded annually 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 Worcester County, Massachusetts, 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.

Class of 1915 Student Aid Fund, the income from this fund of $2,500 given in trust to the University of Maine Foundation is to be used by the President of the University at his discretion for assisting needy students in such manner and amounts as he deems expedient.

PRIZES

Endowed Prizes

The Prize of the Class of 1873, the income from $1000, 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 Claude Dewing Graton Prize, the income from four shares of stock donated by Mr. Graton, of the Class of 1900, is awarded annually to a regularly enrolled undergraduate student under twenty-five years of age who shall have written the best essay on some current constitutional question. Entry for competition should be made with the Professor of Government before January 1.

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 one-act 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 Maine Hardwood Association Fund.—The income from a fund of $870, established in 1939, is awarded as prizes to students in the Forestry curriculum who present the best contributions in the form of essays on the subject of the marketing and utilization of Maine hardwoods. The rules of competition and the awarding of such prizes are to be determined by a committee consisting of the head of the Forestry Department and one or more other members of the faculty, appointed by the President of the University.

The John M. Oak Scholarship, the income from a fund of $1500, established in 1935 by the estate of Mr. Oak, a graduate of the Class of 1873 and a Trustee of the University from 1908 to 1915, for the advancement of the art of public speaking in the University, is awarded annually to those upperclass students who deliver the best speeches of the persuasive type in a contest held for that purpose.

Annual Prizes

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.

The Alpha Zeta Senior Award, $15, is given annually by the honorary fraternity Alpha Zeta to a high-ranking senior member whose college career has been marked by useful service in campus activities.

The Mary Ellen Chase Prize, $100, given by Dr. Mary Ellen Chase, a graduate of the University in the Class of 1909, is awarded at Commencement to that student in the University who shall have submitted the best piece of original prose dealing with some aspect of the State of Maine. The award is made by a committee of judges selected by the head of the Department of English.

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 beginner's course in sociology. Her general deportment and interest in the study of sociology may also be considered in determining the award.

The 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.

The 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 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.

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 is made by a committee comprising 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 athletics or the president of the Pale Blue Key before May 1.

The Senior English Essay Prize, $10, is given by the Department of English to the senior major student submitting the best critical essay as a part of the comprehensive major examinations in English.

The Sigma Mu Sigma Award, $25, is given annually by the honorary society Sigma Mu Sigma to a member of the current sophomore or junior class who shall have completed at least 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 are made to the president of the society by the instructors in the course about the middle of the spring semester, and it becomes available upon the student's return to the University in the following semester.

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

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 Twentieth Century Cup, given by the New York Alumni Association, is awarded annually at Commencement to that graduate class in the Twentieth Century group, the largest percentage of whose members register before six o'clock on Alumni Day.

The Fraternity Scholarship Cup is awarded to the fraternity having the highest standing in scholarship for the preceding calendar year. The cup becomes the permanent property of the fraternity to which it is awarded the greatest number of times during an eleven-year period. The original cup was presented by the 1910 Skulls and 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 permanently in 1921 to Phi Eta Kappa and the second in 1932 to Lambda Chi Alpha.

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

The Charles Rice Cup, presented in 1921 by the Kappa Sigma Fraternity in honor of Charles Anthony Rice, of the Class of 1917, who was

killed in service, is 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.

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 course. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

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

GRADING SYSTEM

Grades at the University are given in terms of letters. For this purpose the letters A, B, C, D, E, F, Abs., and Def. are used.

The meaning of these symbols are: A, high honors; B, honors; C, passed; D, passed unsatisfactorily; E, conditioned; F, failed; Abs., absent from examination; Def., deficient in some specific class activity.

For purposes of comparison these letters carry the following arbitrary values: A=4, B=3, C=2, D=1, E=0, F=00. Each college and the School of Education sets its own graduation requirements in terms of grades or grade points.

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.), Bachelor of Science in Education (B.S. in Ed.), Bachelor of Science in Commercial Education (B.S. in C.Ed.), Bachelor of Science in Fine Arts Education (B.S. in F.A.Ed.), or Bachelor of Science in Music Education (B.S. in Mus.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 committee.

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

Degrees with Distinction and with Honors

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 of 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.

Seniors in the College of Arts and Sciences who complete satisfactorily the Honors program are graduated with Honors, with High Honors, or with Highest Honors.

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.

Notices to Parents

Grade reports are sent to the parents of freshmen at the middle and end of each semester and to the parents of sophomores, juniors, and seniors and graduate students at the end of each semester. Grade reports for the Summer Session are sent to the parents of all students from the University who are attending the Session.

Parents are notified whenever a student is placed or continued on probation or continued on trial or when removed from probation or trial.

Use of Automobiles by Freshmen

Freshmen are not permitted to have or operate automobiles at the University of Maine. This regulation prohibits a freshman from bringing or keeping an automobile on the campus or in Orono or vicinity. Freshmen are expected to observe the spirit as well as the letter of the regulation, and the cooperation of parents is solicited in the operation of the rule. The regulation also applies to motor cycles. Exceptions may be made by the Deans of Men and Women in the case of freshmen who commute daily from their homes.

Organization of the University

The Board of Trustees has supreme authority in all matters pertaining to the University, and all policies applying to the University as a whole must be approved by the Board of Trustees. For purposes of administration, the University is organized into two divisions, the academic and the financial. The former is divided into the College of Agriculture, College of Arts and Sciences, College of Technology, School of Education, Graduate Study, Summer Session, Agricultural Extension Service, Maine Agricultural Experiment Station, and Maine Technology Experiment Station. Each division regulates those affairs which concern itself alone.

College of Agriculture

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

Two-Year Course in Agriculture.

Short Courses in Agriculture.

Farm and Home Week.

College of Arts and Sciences

Curricula may be pursued either in an approved field of concentration or in any of the following departmental subjects: Chemistry, Classics, Economics, English, German, Government, History, Mathematics, Philosophy, Physics, Psychology, Public Speaking, Romance Languages, Sociology, or Zoology; in fields of professional or cultural interest, such as business administration, journalism, social work, teaching, nursing, creative writing, dramatics, or politics; or in preparation for graduate training in law, medicine, theology, public administration, education, engineering, social service, dentistry, or optometry.

All curricula are designed to give a broad cultural foundation for whatever vocation or profession may be pursued. In the junior and senior years, attention is concentrated upon the student's field of major interest.

School of Education

Professional training is offered for secondary-school teachers and prospective principals and supervisors in the public schools, and to a limited extent in elementary education. For these curricula the degree of Bachelor of Arts in Education is given for those who have spent at least two years in a liberal arts college, and the degree of Bachelor of Science in Education for those who transfer from normal schools or other types of institutions.

Three special curricula are also offered as follows: in commercial education for those transferring from certain approved commercial schools, leading to the degree of Bachelor of Science in Commercial Education; in music education for students transferring from the Northern Conservatory, leading to the degree of Bachelor of Science in Music Education; and in fine arts education for students completing an approved curriculum in the Portland School of Fine and Applied Art and Westbrook Junior College, leading to the degree of Bachelor of Science in Fine Arts Education.

College of Technology

Curricula in Chemical Engineering, option in Pulp and Paper Technology, Administrative Option; Chemistry; Civil Engineering, options in Highway, Hydraulic, and Sanitary Engineering; Electrical Engineering, options in Communication and Light and Power; Engineering Physics; General Engineering; and Mechanical Engineering.

Faculty of Graduate Study

Programs of study leading to the degrees of Master of Arts, Master of Science, and Master of Education are available in most departments. The professional degrees of Chemical Engineer, Civil Engineer, Electrical Engineer, Forest Engineer, and Mechanical Engineer are granted upon completion of the appropriate requirements.

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 in about twenty subjects.

College of Agriculture

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agriculptural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Industry, Bacteriology and Biochemistry, Botany and Entomology, Forestry, Home Economics, Horticulture, Poultry, 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 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.).

All students registered in the College of Agriculture should obtain summer work in their respective major fields in order better to prepare themselves for future entrance into those fields.

Students who contemplate entering chemical work related to agriculture should elect the courses offered in Biochemistry covering the qualitative and quantitative chemical analysis of feeds, fertilizers, and dairy products.

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 and Entomology during the junior and senior years.

REGULAR CURRICULA AND COURSES OF INSTRUCTION

The courses of instruction are organized as follows:

1. Four-Year Major Agricultural Curricula:
   Agricultural Economics and Farm Management, Agricultural Education, Agricultural Engineering, Agronomy, Animal Husbandry, Bacteriology, Biochemistry, Botany and Entomology, Dairy Husbandry, Dairy Technology, Horticulture, and Poultry Husbandry
2. Four-Year Forestry Curricula:
   Forestry, Wildlife 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 Journalisn hold Equipment, Social Service, and others forn fit individual cases
4. The Two-Year Course in Agriculture
5. Short Courses in Agriculture
6. Farm and Home Week

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 open in each of the several departments; and for those desiring to enter a field of public servic for which training in agriculture is requisite. In addition to the specific fields mentioned 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, Animal Husbandry, Biochemistry, Dairy Husbandry, Dairy Technology, Horticulture, or Poultry Husbandry. In Agricultural Engineering, Bacteriology, and Botany and

Entomology, specialization begins with the freshman year.

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 and farm management in addition to those which may be required in his major curriculum; particularly it is 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 and Farm Management, 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.

Preparation for Public Service

Federal, state, and local public service agencies offer numerous opportunities for employment for men trained in agriculture. Numbered among these agencies are Federal and state experiment stations, state colleges of agriculture, secondary schools, agricultural extension services, and Federal and state administrative bureaus in the fields of regulation, agricultural credit, agricultural adjustment, farm security, and soil conservation.

Specialized training for these fields of public service may be secured by the proper selection of a major agricultural curriculum and the use of electives in supplementing technical training in agriculture with courses in public speaking, economics, sociology, finance, business law, and history and government.

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 gen-

eral 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.

Time-Credit

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.

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

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	11	Field Crops, 2 †2	3	An	2	General Animal Husbandry, 2 †2	3
Ch	3	General Chemistry, 2 †4	4	Bt	2	General Botany, 2 †4	4
Eh	1	Composition	3	Ch	4	General Chemistry, 2 †4	4
Mt	1	Military, †3	1½	Eh	2	Composition	3
Ph	1	General Poultry Husbandry, 2 †2	3	Ht	2	General Horticulture, 2 †2	3
Zo	1	General Zoology, 2 †4	4	Mt	2	Military, †3	1½
Pt	1	Physical Education, 2	0	Pt	2	Physical Education, 2	0
			18½				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 cooperative marketing, agricultural statistics, or agricultural finance. Any one of these divisions offers many opportunities to the graduate.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 †2	3	*Ag 14	Sweet Corn, Beans, and Peas, 1 †2	2
An 21	Livestock Feeding, 3 †2	4		or	
Bt 45	General Genetics	3	*Ag 16	Forage and Pasture Crops, 1 †2	
Dh 1	General Dairying, 2 †2	3	Bc 8	Agricultural Chemistry	2
Ec 1a	Principles of Economics	3	Fm 48	Agricultural Economics	3
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
				Elective	10
		18			19

Junior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
*Ag 15	Potato Production, 2 †2	3	Fm 52	Farm Accounting, 1 *6	3
By 3	Bacteriology	2		or	
Eh 5	Technical Composition	2	Fm 62	Agricultural Business Acounting, 2 *3	
Fm 73	Adv. Agr. Economics	2	Fm 76	Agr. Marketing	3
Fm 75	Agricultural Statistics, 1 *8	3		Elective	12
	Elective	10 or 7			
		19			18

* Only one course required (Ag 14, 15 or 16).

Senior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Fm 77	Agricultural Finance	2	Fm 74	Farm Management, 3 *3	4
Fm 79	Cooperation in Agriculture	3	*	Marketing	2
Fm 87	Agricultural Prices	3		Other Elective	14 or 12
	Marketing	2			
	Other Elective	8			
		18			18

* Not required if taken in fall.

Curriculum for Students Specializing in Agricultural Education

In recent years there has developed an ever-increasing demand for men to teach vocational agriculture in secondary schools. This has been brought

about in part through Federal legislation which provides special aid to help finance vocational agricultural courses.

Agricultural college graduates who have not taken the special courses designed to fit men for the teaching of vocational agriculture are not permitted to teach agriculture in schools receiving Federal aid for vocational agriculture.

Students who wish to qualify for appointment as teachers of vocational agriculture may do so by taking either a major or a minor in Agricultural Education.

Those who major will follow the prescribed curriculum.

Those who minor must elect all of the courses listed under Agricultural Education. In addition, Ag 41, 42, 43, 44 should be elected.

Sophomore Year

FALL SEMESTER				SPRING SEMESTER			
No.		**Subject**	**Cr. Hours**	**No.**		**Subject**	**Cr. Hours**
Ag	1	Soils, 2 †2	3	Bc	2	Biochemistry, 3 †4	5
An	21	Livestock Feeding, 3 †2	4	Bc	8	Agricultural Chemistry	2
Bc	1	Organic Chemistry, 2 †2	3	Fm	48	Agricultural Economics	3
En	21	General Entomology, 2 †4	4	Fy	20	Woodlot Forestry	2
Py	1	General Psychology, 2 †2	3	Py	2	General Psychology, 2 †2	3
Mt	3	Military, †3	2	Mt	4	Military, †3	2
Pt	3	Physical Education, 2	0	Pt	4	Physical Education, 2	0
						Elective	2
			19				19

Junior Year

No.		**Subject**	**Cr. Hours**	**No.**		**Subject**	**Cr. Hours**
Ae	1	Practice Teaching	1	Ae	2	Practice Teaching	1
Ae	3	Special Methods in Teaching Agriculture	2	Ae	6	Special Methods in Teaching Agriculture	2
Ag	41	School Shop, †2	1	Ag	6	Fertilizers	2
By	3	Bacteriology	2	Ag	16	Forage and Pasture Crops, 1 †2	2
Dh	1	General Dairying, 2 †2	3	Ag	36	Farm Power, 2 *3	3
Eh	5	Technical Composition	2	Ag	42	School Shop, †2	1
		Elective	7	Fm	76	Agr. Marketing	3
						Elective	4
			18				18

Senior Year

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ae	1	Practice Teaching	1	Ae	2	Practice Teaching	1
Ae	5	Supervised Farm Practice	2	Ae	8	Teaching Farm Mechanics	2
Ag	15	Potato Production, 2 †2	3	Ag	30	Farm Machinery, 2 °3	3
Ag	35	Drainage and Land Reclamation, 2 °3	3	Ag	44	School Shop, †2	1
Ag	43	School Shop, †2	1	Fm	52	Farm Accounting, 1 °6	3
Fm	73	Advanced Agr. Economics	2	Fm	74	Farm Management, 3 °3	4
		Elective	6			Elective	4
			18				18

Curricula for Students Specializing in Agronomy or Agricultural Engineering

AGRONOMY

The curriculum in Agronomy is designed to acquaint the student with the principles involved in crop production. A general background is provided by introductory courses in each of the basic sciences related to crop production and utilization. Specific training is offered in soils, fertilizers, and crops with special emphasis on conditions existing in the Northeast.

During the junior and senior years the curriculum provides the possibility of selecting a minor in Agricultural Education or specializing in other fields of interest.

This curriculum prepares a student for graduate study or employment in the various fields of agriculture. The more important employment opportunities are in teaching, extension service, research in state or Federal institutions, and sales or promotional work with private industries dealing in agricultural products.

Sophomore Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	1	Soils, 2 †2	3	Ag	16	Forage and Pasture Crops, 1 †2	2
Ag	15	Potato Production, 2 †2	3	Bc	2	Biochemistry, 3 †4	5
An	21	Livestock Feeding, 3 †2	4	Fm	48	Agricultural Economics	3
Bc	1	Organic Chemistry, 2 †2	3	Mt	4	Military, †3	2
En	21	General 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

Junior Year

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bt 45	General Genetics	3	Ag 6	Fertilizers	2
Bt 53	Plant Physiology, 2 †4	4	Ag 30	Farm Machinery, 2 *3	3
By 1	Bacteriology, †6	3	Bt 30	Plant Ecology, 1 †2	2
By 3	Bacteriology	2	Bt 56	Plant Pathology, 2 †4	4
Eh 5	Technical Composition	2	Fm 76	Agr. Marketing	3
	Elective	4		Elective	4
		18			18

Senior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 5	Soil Formation, Erosion and Conservation	3	Ag 82	Seminar	1
Ag 81	Seminar	1	Fm 74	Farm Management, 3 *3	4
By 55	Bacteriology (Soil), 1 †4	3		Elective	13
	Elective	11			
		18			18

AGRICULTURAL ENGINEERING

The curriculum in Agricultural Engineering is arranged to permit the student to pursue a sequence of courses in either Civil, Electrical, or Mechanical Engineering and leads to the degree of B.S. in Agricultural Engineering at the end of four years, and to a degree of Bachelor of Science in the College of Technology at the end of the fifth year.

A minimum of fifty credits is taken in Agriculture to familiarize the student with the various branches of the field. The sciences fundamental to engineering are taken during the first two years, while during the junior and senior years the curriculum is so arranged that many courses may be taken in Civil, Electrical, or Mechanical Engineering. For those interested a fifth year of work is recommended, during which the student registers in the College of Technology. If the student wishes to earn the two degrees in the five-year period, it is essential that the proper sequence of studies be followed during the entire course.

Opportunities for employment for the Agricultural Engineer exist wherever engineering principles are applied to agriculture. Men so trained may be employed in sales or research departments of farm implement com-

panies or rural electrification products manufacturers, and by state colleges of agriculture or the U. S. Department of Agriculture. Other fields are rural line extension; design and construction of farm buildings; and development of drainage, irrigation, and soil conservation projects.

Freshman Year

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Eh	1	Composition	3	Eh	2	Composition	3
Md	1	Fundamentals of Drafting, †4	2	Ht	2	General Horticulture, 2 †2	3
Ma	1	Trigonometry	2	Md	2	Elementary Machine Drafting, †4	2
Ma	3	Algebra	2	Ma	6	Analytic Geometry	4
Mt	1	Military, †3	1½	Mt	2	Military, †3	1½
Ph	1	General Poultry Husbandry, 2 †2	3	Ps	2b	General Physics, 4 †2	5
Ps	1b	General Physics, 4 †2	5	Pt	2	Physical Education, 2	0
Pt	1	Physical Education, 2	0				
			18½				18½

Sophomore Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	11	Field Crops, 2 †2	3	Ag	42	School Shop, †2	1
Ag	41	School Shop, †2	1	An	2	General Animal Husbandry, 2 †2	3
Ch	1	General Chemistry, 2 †4	4	Ch	2	General Chemistry, 2 †4	4
Md	3	Descriptive Geometry	2	Fm	48	Agricultural Economics	3
Ma	7	Differential Calculus	5	Ma	8	Integral Calculus	5
Mt	3	Military, †3	2	Mt	4	Military, †3	2
Ps	21	Mechanics and Heat Laboratory, †4	2	Pt	4	Physical Education, 2	0
Pt	3	Physical Education, 2	0				
			19				18

Junior Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	1	Soils, 2 †2	3	Ag	30	Farm Machinery, 2 *3	3
Ag	33	Farm Structures, 2 *3	3	Ag	36	Farm Power, 2 *3	3
En	21	General Entomology, 2 †4	4	Me	36	Mechanical Laboratory, †3	1½
		Elective	8			Elective	12
			18				19½

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	**Subject**	**Cr. Hours**	**No.**	**Subject**	**Cr. Hours**
Ag 35	Drainage and Land Reclamation, 2 *3	3	Ag 6	Fertilizers	2
Ag 81	Seminar	1	Ag 82	Seminar	1
By 3	Bacteriology	2	Ee 36	Alternating Currents	2
Dh 1	General Dairying, 2 †2	3	Ee 38	Electrical Laboratory, †3	1½
Ee 35	Direct Current Machinery	2		Elective	11
	Elective	7			
		18			17½

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.

Curricula for Students Specializing in Animal Husbandry or Dairy Husbandry

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 †2	3	Ag 6	Fertilizers	2
An 21	Livestock Feeding, 3 †2	4	Ag 16	Forage and Pasture Crops, 1 †2	2
Bc 1	Organic Chemistry, 2 †2	3	An 22	Dairy Cattle, 2 †2	3
Dh 1	General Dairying, 2 †2	3	Bc 2	Biochemistry, 3 †4	5
En 21	General Entomology, 2 †4	4	Fm 48	Agricultural Economics	3
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
				Elective	2
		19			19

ANIMAL HUSBANDRY

Junior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
An 23	Beef Cattle and Horses	2	An 24	Sheep and Swine, 2 †2	3
An 35	Anatomy of Domestic Animals, 2 †2	3	An 36	Physiology of Domestic Animals	3
Bc 9	Animal Biochemistry	2	An 42	Adv. Livestock Mgt., †2	1
Bt 45	Genetics	3	By 52	Bacteriology, 1 †4	3
By 1	Bacteriology †6	3		Elective	8
By 3	Bacteriology	2			
Eh 5	Technical Composition	2			
	Elective	1			
		18			18

Senior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3	Ag 30	Farm Machinery, 2 *3 or Ag 36 Farm Power, 2 *3	3
An 37	Animal Hygiene	2	An 38	Animal Pathology	2
An 55	Animal Nutrition	2	An 60	Adv. Animal Breeding, 2 *3	3
An 63	Seminar	1	An 64	Seminar	1
	Elective	10	Fm 52	Farm Accounting, 1 *6	3
				Elective	6
		18			18

DAIRY HUSBANDRY

This curriculum is more specialized than that for Animal Husbandry in that dairy manufactures are included. The student pursuing this plan of study may prepare 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, or cheese manufacturing, each of which is constantly adding to its personnel young men who have received training similar to that offered in the Dairy Husbandry curriculum. 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.

Junior Year

FALL SEMESTER

No.	Subject	Cr. Hours
An 35	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 *3	4
Eh 5	Technical Composition	2
		19

SPRING SEMESTER

No.	Subject	Cr. Hours
An 36	Physiology of Domestic Animals	3
An 42	Adv. Livestock Judging and Mgt., †2	1
By 52	Bacteriology, 1 †4	3
Dh 2	Butter Making, 1 †4	3
	Elective	7
		17

Senior Year

No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3
An 37	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 30	Farm Machinery, 2 *3 or	3
Ag 36	Farm Power, 2 *3	
An 38	Animal Pathology	2
An 60	Adv. Animal Breeding, 2 *3	3
An 64	Seminar	1
By 54	Bacteriology (Dairy), 1 †4	3
Fm 52	Farm Accounting, 1 *6	3
	Elective	3
		18

Curriculum for Students Specializing in Dairy Technology

The course of study outlined in this curriculum is based upon the need for training in fundamental sciences and dairy technologies on the part of the individual designing to prepare himself for a career in some one of the several major dairy fields, such as market milk, butter, ice cream, or concentrated milk industries, to enter state or municipal milk control work, to engage in educational or industrial research, or to be come identified with the dairy equipment and supplies industry.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
An 21	Livestock Feeding, 3 †2	4	Ag 36	Farm Power, 2 *3	3
Bc 1	Organic Chemistry, 2 †2	3	Bc 2	Biochemistry, 3 †4	5
Dh 1	General Dairying, 2 †2	3	Fm 48	Agricultural Economics	3
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Ps 1b	General Physics, 4 †2	5	Ps 2b	General Physics, 4 †2	5
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
	Elective	2			
		19			18

Junior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
By 1	Bacteriology, †6	3	By 54	Bacteriology (Dairy), 1 †4	3
By 3	Bacteriology	2	Dh 2	Buttermaking, 1 †4	3
Bc 57	Biological Colloids	3	Dh 4	Condensed Milk, 2 *3	3
Dh 5	Market Milk, 3 *3	4	Dh 6	Dairy Products Judging, †2	1
Eh 5	Technical Composition	2	Md 2	Elementary Machine Drafting, †4	2
Md 1	Fundamentals of Drafting, †4	2		Elective	7
	Elective	2			
		18			19

Senior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Dh 3	Cheese Making, 2 †4	4	Dh 58	Ice Cream Making, 2 †4	4
Dh 51	Dairy Technology	2	Dh 62	Dairy Technology Seminar	1
Dh 55	Dairy Refrigeration	2	Dh 64	Advanced Dairy Products Control, †4	2
Dh 61	Dairy Technology Seminar	1	Dh 66	Dairy Machinery, †4	2
Dh 63	Advanced Dairy Products Testing, †2	1	Fm 62	Agricultural Business Accounting, 2 †2	3
Fm 85	Marketing Dairy Products	3		Elective	6
	Elective	5			
		18			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 fields 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
Ms	1	Trigonometry	2	Eh	2	Composition	3
Ms	3	College Algebra	2	Ms	6	Analytical Geometry	4
Mt	1	Military, †3	1½	Mt	2	Military, †3	1½
Zo	1	General Zoology, 2 †4	4	Pt	2	Physical Education, 2	0
Pt	1	Physical Education, 2	0			Elective	2
		Elective	2				
			18½				18½

Sophomore Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ag	1	Soils, 2 †2	3	Bc	2	Biochemistry, 3 †4	5
Bc	1	Organic Chemistry, 2 †2	3	Ch	40	Quantitative Analysis, 1 †2, *6	4
Ch	31	Micro-Qualitative Analysis, 2 †2, *6	5	Gm	20	German for Chemists	3
Gm	19	German for Chemists	3	Mt	4	Military, †3	2
Mt	3	Military, †3	2	Pt	4	Physical Education, 2	0
Pt	3	Physical Education, 2	0			Elective	4
		Elective	3				
			19				18

Junior Year

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Bc	41	Biochemistry	3	Bc	60	Physiological Chem., 3 *3	4
Bt	53	Plant Physiology, 2 †4	4	Bc	64	Biochemical Laboratory Methods, †6	3
By	1	Bacteriology, †6	3	By	52	Bacteriology, 1 †4	3
By	3	Bacteriology	2	By	54	Bacteriology (Dairy), 1 †4	3
Gm	21	German for Chemists	3	Ch	22	Introductory Theoretical Chemistry	3
		Elective	4	Gm	22	German for Chemists	3
						Elective	1
			19				20

Senior Year

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	92	Problem in Bacteriology, †4 to †8	2 to 4
By	61	Seminar	1			Elective	12 to 14
By	91	Problem in Bacteriology, †4 to †8	2 to 4				
		Elective	6 to 8				
			17				17

Curriculum for Students Specializing in Biochemistry

The curriculum in Biochemistry 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.

Freshman Year

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

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 1	Soils, 2 †2	3	Bc 2	Biochemistry, 3 †4	5
Bc 1	Organic Chemistry, 2 †2	3	Ch 40	Quantitative Analysis, 1 †2, *6	4
Ch 31	Micro-Qualitative Analyses, 2 †2, *6	5	Gm 20	German for Chemists	3
Gm 19	German for Chemists	3	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Pt 4	Physical Education, 2	0
Pt 3	Physical Education, 2	0		Elective	4
	Elective	3			
		19			18

Junior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 9	Animal Biochemistry	2	Bc 60	Physiological Chem., 3 *3	4
Bc 53	Agricultural Analysis, †6	3	Bc 64	Biochemical Laboratory Methods, †6	3
By 1	Bacteriology, †6	3	By 52	Bacteriology, 1 †4	3
By 3	Bacteriology	2	Ch 22	Introductory Theoretical Chemistry	3
Gm 21	German for Chemists	3	Gm 22	German for Chemists	3
	Elective	5		Elective	3
		18			19

Senior Year

No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Bc 57	Biological Colloids	3	Bc 92	Research, †8	4
Bc 91	Research, †8	4		Elective	14
	Elective	11			
		18			18

Curricula for Students Specializing in Botany and Entomology

This curriculum is 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 and entomology as applied to agriculture or forestry may transfer from either the Agriculture or Forestry curriculum at the beginning of the sophomore year. Others will be guided by the freshman curriculum outlined below. A reading knowledge of French or German is required. The completion of two years of French or German will fulfill the foreign language requirement.

Freshman Year

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ch	3	General Chemistry, 2 †4	4	Bt	2	General Botany, 2 †4	4
Eh	1	Composition	3	Ch	4	General Chemistry, 2 †4	4
Md	1	Fundamentals of Drafting, †4	2	Eh	2	Composition	3
Ma	1	Trigonometry	2	Md	2	Elementary Machine Drafting, †4	2
Ma	3	Algebra	2	Mt	2	Military, †3	1½
Mt	1	Military, †3	1½	Zo	4	Animal Biology, 2 †4	4
Zo	3	Animal Biology, 2 †4	4	Pt	2	Physical Education, 2	0
Pt	1	Physical Education, 2	0				
			18½				18½

Sophomore Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Bc	1	Organic Chemistry, 2 †2	3	Bc	2	Biochemistry, 3 †4	5
Bt	13	Dendrology (Hardwoods) 2 †4	4	Gm	2	Elementary German	4
En	21	General Entomology, 2 †4	4	Mt	4	Military, †3	2
Gm	1	Elementary German	4	Sh	2	Public Speaking	2
Mt	3	Military, †3	2	Pt	4	Physical Education, 2	0
Pt	3	Physical Education, 2	0			Elective	5
		Elective	2				
			19				18

Junior Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Bt	53	Plant Physiology, 2 †4 or	4	Bt	56	Plant Pathology, 2 †4 or	4
Zo	15	Comparative Anat. 2 †4		Zo	16	Comparative Anat. 2 †4	
Bt	57	Taxonomy of Vascular Plants, 2 †4	4	By	2	Bacteriology, †6	3
By	3	Bacteriology	2	Ce	14	Historical Geology	3
Eh	5	Technical Composition	2	Eh	10	Modern Literature	2
Gm	3	Short Story	3	Gm	4	Short Story	3
		Elective	4			Elective	3
			19				18

Senior Year

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
*Bt	35	Plant Anatomy, 2 †4	4	Bt	30	Plant Ecology, 1 †2	2
Bt	45	General Genetics	3	Bt	46	Genetics Laboratory, †4	2
Bt	59	General Mycology, 2 †4	4			Elective	13
Es	1a	Prin. of Economics	3				
		Elective	5				
			19				17

* Entomology students elect.

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 direct entrance into several professional occupations which may require additional preparation through 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 broad training, the student who wishes to specialize in one division may do so by combining a careful selection of elective courses with the completion of one of these groups: (1) fruit culture—Horticulture 1, 9, 10, and Farm Management 74; (2) vegetable gardening—Horticulture 10, 21, 25, and Farm Management 74; (3) floriculture and ornamental horticulture—Engineering Drafting 1 or 9, Horticulture 7 and 15. Problem courses afford still further opportunity for specialization.

Conflicts may largely be avoided by scheduling elective courses in this sequence: sophomore year, Course 9 and Engineering Drafting, 1 or 9; sophomore or junior year, Course 4; junior year, Courses 1, 7 and 10; junior or senior year, Courses 53, 54 and 55; senior year, Courses 11, 12, 15, 25, and Farm Management 74.

Year

Bc	1	Organic Chemistry, 2 †2	3
En	21	General Entomology, 2 †4	4
Ht	3	Trees and Shrubs, 2 *3	3
Mt	3	Military, †3	2
Pt	3	Physical Education, 2	0
		Elective	4
			19

SPRING SEMESTER

[illegible]	2	Biochemistry, 3 †4	5
Ag	6	Fertilizers	2
Fm	48	Agricultural Economics	3
Ht	8	Home Floriculture, 2 †2	3
Mt	4	Military, †3	2
Pt	4	Physical Education, 2	0
		Elective	4
			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
Ht	53	Systematic Horticulture, 2 †2	3
		Elective	5
			19

No.		Subject	Cr. Hours
Bt	56	Plant Pathology, 2 †4	4
Ht	6	Landscape Gardening, 2 *3	3
Ht	20	Vegetable Gardening, 2 †2	3
		Elective	9
			19

Senior Year

No.		Subject	Cr. Hours
Bt	45	General Genetics	3
Ht	51	Seminar	1
Ht	55	Advanced Pomology, 2 †2	3
		Additional Horticulture	3
		Elective	7
			17

No.		Subject	Cr. Hours
Ht	52	Seminar	1
		Additional Horticulture	4
		Elective	12
			17

Curriculum for Students Specializing in Poultry Husbandry

The curriculum in Poultry Husbandry is designed to give the student that knowledge and training which is fundamental to success in the various branches of the poultry industry. In addition to the basic sciences, the subjects of poultry breeding, feeding, incubation, brooding, judging, and management are included in the curriculum. Elective courses enable students

to gain knowledge in related fields. On completion of this curriculum several lines of endeavor are open to the student, including the operation or management of a poultry farm or hatchery, teaching in high school or college, agricultural extension work, and sales or service work with commission, feed, and equipment companies.

Sophomore Year

FALL SEMESTER

No.	Subject	Cr. Hours
Ag 1	Soils, 2 †2	3
An 21	Livestock Feeding, 3 †2	4
Bc 1	Organic Chemistry, 2 †2	3
Dh 1	General Dairying, 2 †2	3
En 21	General 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
Fm 48	Agricultural Economics	3
Ph 2	Incubation and Brooding, 2 †2	3
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
	Elective	4
		19

Junior Year

No.	Subject	Cr. Hours
An 35	Anatomy of Domestic Animals, 2 †2	3
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	3
		18

No.	Subject	Cr. Hours
Ag 6	Fertilizers	2
An 36	Physiology of Domestic Animals	3
By 52	Bacteriology, 1 †4	3
Ph 22	Poultry Breeding	2
	Elective	8
		18

Senior Year

No.	Subject	Cr. Hours
Ag 35	Drainage and Land Reclamation, 2 *3	3
Fm 89	Marketing Poultry Products	2
Ph 25	Poultry Feeding	2
Ph 53	Seminar	1
	Elective	10
		18

No.	Subject	Cr. Hours
Fm 52	Farm Accounting, 1 *6	3
Ph 26	Poultry Farm Management, 1 †2	2
Ph 40	Poultry Diseases	2
Ph 54	Seminar	1
	Elective	10
		18

CURRICULA IN FORESTRY

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

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

FALL SEMESTER				SPRING SEMESTER			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ch	3	General Chemistry, 2 †4	4	Bt	2	General Botany, 2 †4	4
Eh	1	Composition	3	Ch	4	General Chemistry, 2 †4	4
Fy	1	Elements of Forestry	2	Eh	2	Composition	3
Md	1	Fund. of Drafting, †4	2	Fy	2	Elements of Forestry	2
Ms	9	Trigonometry and its Applications	2	Md	2a	Drafting, †4	2
Mt	1	Military, †3	1½	Ms	10	Trigonometry and its Applications	2
Zo	1	General Zoology, 2 †4	4	Mt	2	Military, †3	1½
Fy	47	Orientation, 1	0	Fy	48	Orientation, 1	0
Pt	1	Physical Education, 2	0	Pt	2	Physical Education, 2	0
			18½				18½

CURRICULUM IN FORESTRY

A four-year undergraduate curriculum in Forestry is offered. In addition five courses from this undergraduate curriculum are open for 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 State 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 pretechnical 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 course of six weeks' practical experience is required of all men in the summer between the sophomore and junior years. This work is offered where students are enabled 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 course of eight weeks' practical experience is required of all seniors at camps, owned and operated by the Forestry Department, located on Indian Township, near Princeton, Maine.

Sophomore Year

FALL SEMESTER

No.	Subject	Cr. Hours
Ag 5	Soil Formation and Conservation	3
Bt 33	Dendrology (Hardwoods) 2 †4	4
Ce 1	Plane Surveying	2
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
		18

SPRING SEMESTER

No.	Subject	Cr. Hours
Bt 34	Dendrology (Conifers), 1 *3	2
Eh 10	Modern Literature	2
En 22	Forest Entomology, 2 †4	4
Es 2b	Principles of Economics	2
Fy 4	Administration and Protection	4
Fy 14	Forest Products	2
Mt 4	Military, †3	2
Pt 4	Physical Education, 2	0
		18

Summer Course

No.	Subject	Cr. Hours
Ce 7s	Highways and Railroads, *16	2
Fy 35s	Silvics, *16	2
Fy 37s	Forest Mensuration, *8	1
Fy 39s	Forest Products, *8	1
		6

Junior Year

FALL SEMESTER				SPRING SEMESTER			
No.	Subject	Cr. Hours		No.	Subject	Cr. Hours	
Ag 3	Soils (Forest), 2 °3	3		Fy 6	Forest Mensuration, 2 °3	3	
Bt 35	Plant Anatomy, 2 †4	4		Fy 8	Silviculture, 3 °3	4	
Eh 5	Technical Composition	2		Fy 10	Nursery Practice, last 9 weeks, °6	1	
Fy 5	Forest Mensuration, 2 °3	3		Fy 12	Wood Technology	2	
	Elective	6			Elective	9	
		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 16	Wood Identification, 2, °3	1
Fy 9	Wood Preservation	1	Fy 52	Policy and Economics	4
Fy 51	Regional Silviculture	2		Elective	10
Fy 53	Forest Finance, 3 †2	2			
Fy 55	Forest Management	2			
	Last 9 weeks				
Fy 41	Practice of Forestry, °48	9			
		18			19

CURRICULUM IN WILDLIFE CONSERVATION

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

This curriculum 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.

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

Well-qualified undergraduates are advised to pursue graduate work in preparation for research in Federal, state and college experiment stations. Under such circumstances special electives may be taken in preparation for graduate work.

The first two years are devoted largely to fundamental and pretechnical subjects which are basic for the applied courses offered in the last two years. A course of six weeks' practical experience is required of all undergraduates between the sophomore and junior years. This work is offered where forest areas are being operated under a system of wildlife management.

Sophomore Year

FALL SEMESTER

No.	Subject	Cr. Hours
Bt 33	Dendrology (Hardwoods) 2 †4	4
By 3	Bacteriology	2
Ce 1	Plane Surveying	2
Ce 3	Field Work and Plotting, *9	3
Fy 13	Forest Protection	2
Mt 3	Military, †3	2
Zo 9	Ichthyology, 2 †4	4
Pt 3	Physical Education, 2	0
		19

SPRING SEMESTER

No.	Subject	Cr. Hours
Bt 34	Dendrology (Conifers), 1 *3	2
Bt 36	Taxonomy, 2 †4	4
Eh 10	Modern Literature	2
En 26	Entomology, 2 *3	3
Mt 4	Military, †3	2
Zo 10	Ornithology, 2 †4	4
Pt 4	Physical Education, 2	0
		17

Summer Course

No.	Subject	Cr. Hours
Fy 35s	Silvics, *16	2
Fy 37s	Forest Mensuration, *8	1
Fy 45s	General Ecology, *24	3
		6

Junior Year

No.	Subject	Cr. Hours
Ag 3	Soils (Forest), 2 *3	3
Bt 41	Biotic Relationships, 2 *3	3
Fy 5	Forest Mensuration, 2 *3	3
Zo 13	Mammalogy, 2 *3	3
Zo 17	Animal Parasitology, 2 *3	3
	Elective	4
		19

No.	Subject	Cr. Hours
An 44	Disease and Parasite Control (in Wildlife), 3 †2 first 9 weeks	2
Eh 6	Technical Composition	2
Fm 48	Agricultural Economics	3
Fm 6	Forest Mensuration, 2 *3	3
Fy 8	Silviculture, 3 *3	4
Fy 10	Nursery Practice, *6, last 9 weeks	1
	Elective	4
		19

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
	First 9 weeks		Fy 52	Policy and Economics	4
Fy 51	Regional Silviculture	2	Fy 58	Game Management, 2 °3	3
Fy 55	Forest Management	2	Zo 20	Fish Management, 2 °3	3
Fy 57	Game Management, 4 °4	3		Elective	9
Zo 19	Fish Management, 1 °3	1			
	Last 9 weeks				
Fy 41	Practice of Forestry, °48	9			
		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 sixteen 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, 16 to 32 hours of electives in any department of the University for which the student is adequately prepared. At least half of the total program must be in courses other than those essentially technical or professional.

Basic Curriculum in Home Economics

Required of all students majoring in the department.

Freshman Year

FALL SEMESTER				SPRING SEMESTE			
No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ch	5	Inorganic Chemistry, 2 †4	4	Bc	4	Organic Chemistry, 3 †2	4
Eh	1	Composition	3	Eh	2	Composition	3
He	1	Intro. to Home Economics	3	He	2	Clothing Selection Problems, 2 †2	3
He	3	Design, 1 †4	3	He	14	The Pre-School Child	3
My	1	Modern Society	3	My	2	Modern Society	3
Pe	1	Physical Education, 2	0	Pe	2	Physical Education, 2	0
			16				16

Sophomore Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hour
He	5	Foods, 2 †4	4	He	6	Foods, 2 †4	4
Py	1	General Psychology, 2 †2	3	Py	2	General Psychology, 2 †2	3
		Sequence and Elective	9	Zo	12	Anatomy and Physiology, 3 †4	5
Pe	3	Physical Education, 2	0			Sequence and Elective	4
				Pe	4	Physical Education, 2	0
			16				16

Junior Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
By	3	Bacteriology	2	By	10	Sanitation	2
By	5	Bacteriology, †2	1	He	4	The House, 2 †2	3
Sy	1	Prin. of Sociology	3	He	10	Home Care of the Sick	1
		Sequence and Elective	10			Sequence and Elective	10
			16				16

Senior Year

No.		Subject	Cr. Hours	No.		Subject	Cr. Hours
Ee	5a	Household Equipment	2	He	12	Senior Survey	1
He	11	Household Management	3	*He	22	Household Administration	3
		Sequence and Elective	11	He	54	Family Economic Problems	3
						Sequence and Elective	9
			16				16

* May be taken in the fall as He 21.

Sequences

Home Economics Education. 35-37 hours.

This sequence fulfills the requirements for State certification of junior and senior high-school teaching of Home Economics and of certain science courses, and qualifies the student to receive, after a year of successful teaching experience, the vocational certificate which makes her eligible to teach in those schools which offer vocational programs with Federal support.

Requirements are as follows:

Bc 5	Biochemistry	4
Ed 65 (66)	Educational Measurements	3
He 7; 8 (8a)	Clothing Construction Problems	2-4
He 45 (46)	Advanced Clothing Construction	2
He 47 (48)	Fundamentals of Costume Design	1
He 49 (50)	Clothing Patterns	2
He 51	Clothing Economics	1
He 55 (56)	Home Economics Education	3
He 57a	Food Preservation	1
He 57 (58)b	Demonstrations	1
He 63 (64)	Nutrition	2
He 65 (66)	Dietetics	2
He 71 (72)a or b	Supervised Teaching	2
He 73, 74	Supervised Field Teaching	4
He 78	Advanced Home Economics Methods	2
He 85 (86)	School Lunch	1
Sh 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, and He 18b Applied Design are also recommended.

Extension Teaching. 28-30 hours.

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

Bc 5	Biochemistry	4
Eh 19	Specialized Writing	2
He 7; 8 (8a)	Clothing Construction Problems	2-4
He 45 (46)	Advanced Clothing Construction	2
He 47 (48)	Fundamentals of Costume Design	1
He 49 (50)	Clothing Patterns	2
He 51	Clothing Economics	1
He 55 (56)	Home Economics Education	3
He 57a	Food Preservation	1
He 57 (58)b	Demonstration	1
He 63 (64)	Nutrition	2
He 65 (66)	Dietetics	2
He 81 (82)	Institutional Foods	3
Sh 1 (2)	Public Speaking	2

Further work in home economics, especially in institutional foods and in clothing; in education; in journalism; and in the social sciences is strongly recommended. Since 25 hours of this sequence is identical with the teaching sequence, and since either field is good experience for the other, students often combine this with the Home Economics Education sequence.

Food and Nutrition. 21-23 hours.

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

Bc 5	Biochemistry	4
*Bc 9 or 60	Biochemistry	2-4
*Ed	Education	3
He 63 (64)	Nutrition	2
He 65 (66)	Dietetics	2
*He 67 (68)	Nutrition in Abnormal Conditions	2
*He 81, 84, 87	Institutional Management	6

* For students preparing for other foods and nutrition position than hospital dietetics, appropriate substitutes may be made for starred courses.

Textiles and Clothing. 19-21 hours.

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

He 7, 8 (8a)	Clothing Construction Problems	2-4
He 17 (18a)	Applied Design	2
He 43 (44)	House Furnishing	3
He 45 (46)	Advanced Clothing Construction	2
He 51	Clothing Economics	1
He 52	Draping	2
He 61	History of Costume	1
*He 91, 92	Costume Design	6

* Appropriate substitutions may be made for starred courses.

Students who select this sequence are advised to include as electives courses in psychology, public speaking, theatre, French, art history, history, and journalism.

Child Development. 23 hours.

For students interested in prevocational training in fields such as nursery school, parent education and child welfare.

Bc 5	Biochemistry	4
He 57 (58)c	Nursery School Meals	1
He 59 (60)	Special Problem in Child Development	2
He 63 (64)	Nutrition	2
He 65	Dietetics	2
Py 67, 72, 76, 77, 81 Sy 20, 41, (42), 52, 57	(12 hours selected)	12

Students are advised to include courses in public speaking, in the appreciation of art and music, and additional zoology, English, and education. Arrangements are made for two students 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.

General Home Economics

For students who wish an adequate basic training in home economics, but are not interested in organizing their programs about the requirements of any paid vocations.

Sixteen hours of advanced home economics courses in addition to those required in the basic curriculum.

Other Sequences

For students whose vocational 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. It is also 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 requirements.

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
Farm Botany, 1 †2	2	English	2
Farm Chemistry	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
*Potato Production, 2 †2	3		
Poultry Husbandry, 2 †2	3		
	19 or 20		20

* Two of these three subjects to be elected with approval of the Director of Short Courses.

Second Year

Subject	Hours	Subject	Hours
Animal Husbandry, 2 †2	3	Animal Husbandry, 3 †2	4
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 (Fy 20)	2
Farm Management, 2 *3	3	Marketing Farm Products	3
Poultry Management	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 156.

SHORT COURSES IN THE COLLEGE OF AGRICULTURE

Short courses are offered to the large number of young men and women and adults who are engaged or about to engage in agricultural or home-making 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 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, Capper-Ketcham and Bankhead-Jones 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 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 12,000 men and women, cooperates with the Extension Service in the determination and development of its county and community programs of work.

IDENTIFICATION, TESTING, DIAGNOSTIC, AND CORRESPONDENCE SERVICE

The College of Agriculture provides a service for the identification of plant specimens, the diagnosis of plant and animal diseases and the testing of soils and materials. In addition the College welcomes inquiries on practical agricultural, forestry, and home economics subjects. 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.

LECTURE SERVICE

Members of the faculty of the College of Agriculture are available as lecturers at grange, farm bureau, clubs and other gatherings when such service does not interfere with class instruction and travel funds permit. A complete list of lectures 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.

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.

Two-semester courses designated with a period between the two numbers (e.g., 1. 2) may be taken either semester; when a semicolon appears between the two numbers (e.g., 1; 2), the first semester is prerequisite to the second; and when a dash appears between the two numbers (e.g., 1-2), both semesters must be taken to obtain credit.

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

PROFESSORS MERCHANT AND JONES; ASSOCIATE PROFESSOR DOW; ASSISTANT PROFESSOR NIEDERFRANK; MR. MARCY

48. Agricultural Economics.—An introductory course in the principles of economics as applied to agriculture. Consideration is given to the development of commercial agriculture, price-making forces, production factors, land policies, land tenure, foreign trade, taxation, credit, marketing, and farm management. This course is intended to give a broad fundamental training in this field. *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. MARCY

62. *Agricultural Business Accounting.*—This course includes accounting methods for different types of farm business organizations, such as cooperative 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 problems 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 some of the more important economic problems facing agriculture, such as effects of various governmental policies, agricultural relief, production control, protective tariff, foreign trade and competition, agricultural organization, tenancy, and similar problems. Prerequisite, Course 48. *Two hours a week. Two credit hours.* MR. MARCY

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, **six hours a week. Three 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 Farm Credit Administration, banks, and individual creditors, as they affect credit conditions in the various farming sections of Maine. *Two hours a week. Two credit hours.* MR. MARCY

***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. Cooperation in Agriculture.**—Principles involved in cooperative organization including the more important factors affecting the efficiency and success of cooperative organizations, such as volume of business, capital and finance, management, and price policies. The history, organization, and management of cooperative associations marketing the more important agricultural products. *Three hours a week. Three credit hours.* MR. NIEDERFRANK

***83-84. Thesis.**—A thesis may be written on any problem in agricultural economics, farm management, marketing, agricultural finance, agricultural statistics, or agricultural prices. Prerequisite, permission to register. *Credit, arranged.* MEMBERS OF THE DEPARTMENTAL STAFF

***85. Marketing Dairy Products.**—A specialized course considering the marketing of dairy products, with special emphasis on milk and cream in New England. Factors to be studied include production areas; utilization of milk; grades; transportation; storage; market channels; sales methods; prices; government regulation; foreign trade; consumption; and city distribution. *Three hours a week. Three 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. MARCY

***87. Agricultural Prices.**—The underlying factors causing price changes in agricultural commodities, effects of inflation and deflation, interrelationship of supply and prices, long-time trends, seasonal variation, cyclical movements, and agricultural price-raising measures. *Three hours a week. Three credit hours.* MR. JONES

***89. Marketing Poultry Products.**—A specialized course in the economic factors involved in the marketing of eggs and poultry. Special consideration will be given to production; grades; containers; transportation; market receipts; consumption; storage; market channels; foreign trade; price; and costs of marketing. *Two hours a week. Two credit hours.* MR. MARCY

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* A description of this course also appears under the Department of Agronomy and Agricultural Engineering

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 classification, land values, and land policy. Land utilization programs. *Three hours a week. Three 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 property 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. *Two hours a week. Two credit hours.* Additional credit may be arranged for special problems done in connection with this course.

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, Course 75, and 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 studying 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

125. Graduate Thesis.—*Credit, arranged.* MR. MERCHANT

Rural Sociology

***24. Rural Sociology.**—A general course in the study of rural life. Subjects to be considered are: standard of living and welfare of rural people; rural population; farm tenancy; the town and village; rural organizations and rural leadership; and the probable sociological effect of the adjustment of agricultural production, soil conservation, credit agencies and other governmental measures on rural life. *Three hours a week. Three credit hours.*

MR. NIEDERFRANK

AGRICULTURAL EDUCATION

PROFESSOR HILL; ASSISTANT PROFESSOR ELLIOTT

***1. 2. Practice Teaching.**—Major and minor students in agricultural education are required to do directed teaching in an approved school during their junior and senior years. *Time and credit arranged. Total credit, four hours.*

MR. HILL, MR. ELLIOTT

***3. 6. Special Methods in Teaching Agriculture.**—State and Federal legislation; the curriculum; teaching methods and lesson plans; building the course of study; making teaching plans for the year; rooms and equipment; part-time and evening school work; Future Farmers of America; long-time and annual programs of work; reviews, examinations, grades; classroom management. *Two hours a week. Two credit hours.*

MR. HILL, MR. ELLIOTT

***5. Supervised Farm Practice.**—Requirements for supervised farm practice; its importance; selection of projects; project plans; project records; project supervision; long-time supervised farm practice programs; project budgeting; giving credit for supervised farm practice; project contests. *Two hours a week. Two credit hours.*

MR. HILL, MR. ELLIOTT

***8. Methods of Teaching Farm Shop.**—A course in methods for teachers of vocational agriculture stressing importance of meaning, aims, and purposes; choosing type of shop; tools and equipment; determining how to organize shop; shop texts and references; content of courses; organizing the course content. *Two hours a week. Two credit hours.*

MR. HILL, MR. ELLIOTT

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* A description of this course also appears under the Department of Economics and Sociology.

101s. Current Problems in Agricultural Education.—Analysis and study of one or more special problems in agricultural education with special reference to the time limits. *One to three credit hours.* MR. HILL

AGRONOMY AND AGRICULTURAL ENGINEERING

PROFESSOR CHUCKA; ASSOCIATE PROFESSOR LIBBY; ASSISTANT PROFESSORS SWIFT, RALEIGH, AND MEYER

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 †*two 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

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. Fertilizers.—Source, composition, and properties of fertilizer materials as related to composition, cost, methods of application, and general use of commercial fertilizers in crop production. Prerequisite, Course 1 or 3. 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. Prerequisite, Course 1 or 3. 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. Prerequisite, Course 1 or 3. 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

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. Prerequisites, Course 11 and Botany 2. 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, and storing. 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. Prerequisite, Course 15. 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. Prerequisite, Farm Management 48. *Three hours a week. Three credit hours.* MR. LIBBY

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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.

Agricultural Engineering

30. *Farm Machinery.*—Construction, operation, care, and adjustment of farm machinery. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours.* MR. MEYER

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. MEYER

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. *Draining and Land Reclamation.*—A course covering theory and field work in taping, leveling, plane table, compass, and transit work. The theory and design of terraces, open ditches, soil-saving structures, and tile drainage systems with field work in their layout. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.* MR. MEYER

36. *Farm Power.*—Application of power to farm operations. The construction, operation, care, and adjustment of gas and electric motors and related equipment. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.* MR. MEYER

41. *School Shop.*—Instruction in wood-tool fitting and operations; furniture repair and refinishing; and painting. Laboratory, †*two hours a week. One credit hour.* MR. MEYER

42. *School Shop.*—Instruction in forge and cold metal work, and soldering. Laboratory, †*two hours a week. One credit hour.* MR. SWIFT

43. *School Shop.*—Instruction in drawing, blue print reading, concrete work, plumbing, and surveying. Laboratory, †*two hours a week. One credit hour.* MR. SWIFT

44. *School Shop.*—Instruction in electricity, farm machinery repair, power transmission, and harness repair. Laboratory, †*two hours a week. One credit hour.* MR. MEYER

Agronomy and Agricultural Engineering (General)

81, 82. *Seminar.*—Study of recent literature, problems and experiments pertaining to soils, crops, and agricultural engineering. *One hour a week. One credit hour.* MEMBERS OF THE DEPARTMENTAL STAFF

83. 84. Special Problems in Agronomy and Agricultural Engineering.—*Credit, arranged.* MEMBER OF THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Credit, arranged.* MR. CHUCKA

ANIMAL INDUSTRY

PROFESSORS CAIRNS AND DORSEY; ASSISTANT PROFESSORS HALL AND WITTER; MR. OSBORNE; MR. ROGERS

Animal Husbandry

2. General Animal Husbandry.—An introduction to Animal Husbandry. A general course covering the market types and classes of livestock, their economic importance and place in this region. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.*

MR. CAIRNS, MR. HALL

21. Livestock Feeding.—A study of the principles of livestock feeding; livestock feeds and their values for the different classes of stock. The lecture includes a brief discussion on care and management. The laboratory work consists of the study of feeds and their composition; the use of feeding standards; and the computation of rations. Prerequisite, Course 2. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.*

MR. CAIRNS

22. Dairy Cattle.—A production course dealing with the selection, breeding, care and management of a dairy herd. The laboratory will be devoted to practical problems and dairy cattle judging. Prerequisites, Courses 2 and 21. Classroom, *two hours a week;* laboratory †*two hours a week.*

MR. CAIRNS

23. Beef Cattle and Horses.—A production course. One-half of the course is devoted to beef cattle and the other half to horses. The selection, breeding, feeding, care and management of the particular class of stock will be discussed in each half of the course. Prerequisites, Courses 2 and 21. *Two hours a week. Two credit hours.* MR. CAIRNS

24. Sheep and Swine.—A production course. One-half of the semester is devoted to sheep and the other half to swine. Selection, breeding, care and management of the particular class of stock will be discussed in each half of the course. Prerequisites, Courses 2 and 21. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. CAIRNS

35. *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

36. *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

42. *Advanced Livestock Judging and Management.*—The student gets experience in judging and handling livestock. Visits may be made to livestock farms. †*Two hours a week. One credit hour.* MR. HALL

55. *Animal Nutrition.*—The principles of nutrition, methods of experimentation, and the application of nutritional theories to practical feeding problems. Prerequisite, Course 21. *Two hours a week. Two credit hours.* MR. CAIRNS

57, 58. *Problems in Animal Husbandry and Animal Pathology.*—Open to qualified senior and graduate students. *Credit, arranged.* MR. CAIRNS, MR. WITTER

60. *Animal Breeding.*—A study of the physiology of reproduction; the principles and theories of breeding as applied in the livestock industry; study of pedigrees and records in the herd books. Open to senior and graduate students. Prerequisite, Course 25. Classroom, *two hours a week;* laboratory, **three hours a week. Three 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. CAIRNS, MR. HALL

65. *Advanced Animal Industry.*—A course dealing with the handling and preparation of livestock for market. A study of farm and packing house methods of the slaughter of animals, and the cutting and curing of meats. Wherever possible, this actually will be done. Visits may be made to nearby abattoirs. Prerequisites, Courses 2 and 25. *Two hours a week. Two credit hours.* MR. HALL

125. *Graduate Thesis.*—*Credit, arranged.* MR. CAIRNS

Animal Pathology

37. *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 36. *Two hours a week. Two credit hours.* MR. WITTER

38. 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 37. *Two hours a week. Two credit hours.* MR. WITTER

****40. 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

44. Disease and Parasite Control (in Wildlife).—A study of known infectious and parasitic diseases of game and fur-bearing animals, emphasizing preventive and control measures. First half semester. Classroom, *three hours a week;* laboratory, *†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. 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

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. ROGERS

3. Cheese Making.—Manufacture and curing of various types of cheese, including cheddar and soft cheeses adapted to the New England trade. 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. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.*
MR. DORSEY

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* The description of this course also appears under the Department of Poultry Husbandry, and should be registered for under the designation Ph 40.

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, **three hours a week. Four credit hours.*

MR. ROGERS

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. ROGERS

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 Dairy 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, MR. ROGERS

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

125. *Graduate Thesis.*—*Credit, arranged.* MR. DORSEY

BACTERIOLOGY AND BIOCHEMISTRY

PROFESSORS HITCHNER AND SMITH; ASSISTANT PROFESSORS HIGHLANDS AND PEDLOW; DR. SNIESZKO; MR. GUTHRIE; MR. SHIGLEY

Bacteriology

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. GUTHRIE

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. GUTHRIE

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, MR. SNIESZKO

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

55. *Bacteriology (Soil).*—A theoretical and experimental consideration of the relationship of microorganisms 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. SNIESZKO

56. *Food Technology.*—A general course in the principles and the applications of food conservation, with especial reference to commercial practices in canning, drying, freezing, and special problems. Open to seniors and other students whose training in bacteriology and chemistry meets the approval of the instructor. Classroom, *one hour a week;* laboratory, *†four hours a week. Three credit hours.* MR. HIGHLANDS

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

91, 92. *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

125. *Graduate Thesis.*—*Credit, arranged.* MR. HITCHNER

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.—Ionization and the intensity factor of acidity; elementary surface chemistry and colloidal phenomena; the hydrocarbons and alcohols. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.* MR. PEDLOW, MR. SHIGLEY

5. Biochemistry.—The aldehydes, acids, fats, carbohydrates, proteins and related compounds. Prerequisite, Course 4. Classroom, *three hours a week;* laboratory, †*two hours a week. Four credit hours.*
MR. PEDLOW, MR. SHIGLEY

8. Agricultural Chemistry.—A brief discussion of the chemistry of plants, animals, soil, fertilizers, insecticides, milk, and related topics. This course is designed to furnish students with a working knowledge of chemistry as applied to agricultural products. *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

41. 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. SMITH

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. PEDLOW

60. Physiological Chemistry.—The physiological utilization of the carbohydrates, fats, and proteins with special emphasis upon the functions of enzymes, hormones, and vitamins. Prerequisite, Course 2 or 5. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* MR. PEDLOW

61. *Advanced Biochemistry.*—A detailed treatment of the proteins, carbohydrates, and liquids. Prerequisite, Course 60. *Three hours a week. Three credit hours.* MR. PEDLOW

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 or Chemistry 41. †*Six hours a week. Three credit hours.* MR. PEDLOW

91, 92. *Biochemical Research.*—Problems dealing with various phases of biological or agricultural chemistry. Special problems may be selected 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. PEDLOW

125. *Graduate Thesis.*—*Credit, arranged.* MR. HITCHNER

BOTANY AND ENTOMOLOGY

PROFESSOR STEINMETZ; ASSOCIATE PROFESSORS DIRKS AND STEINBAUER; ASSISTANT PROFESSOR HIGHLAND; DR. OGDEN; MR. WRIGHT

Botany

1 (2). *General Botany.*—Fundamental principles of plant life. Required of all students in the College of Agriculture excepting those registered in Agricultural Engineering and Home Economics. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

MEMBERS OF THE DEPARTMENTAL STAFF

30. *Plant Ecology.*—Environmental factors determining adaptations and distribution of plant life. Prerequisite, Course 1 (2). Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.*

MR. STEINBAUER

32. *Plant Physiology.*—For students in Forestry. Prerequisite, Course 1 (2) and one year of chemistry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. STEINBAUER

33. *Dendrology (Hardwoods).*—Classroom and field work on identification and classification of trees and native shrubs of North America. Prerequisite, Course 1 (2). Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. HYLAND, MR. OGDEN

34. Dendrology (Conifers).—Continuation of Course 33. Botanical and commercial ranges of timber trees of North America. Prerequisite, Course 33. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* Mr. Hyland

35. Plant Anatomy.—Structure of woody and herbaceous plants. Prerequisite, Course 1 (2). Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Hyland

36. Taxonomy.—Identification of herbaceous flowering plants, with emphasis upon those of wildlife importance. Prerequisite, Course 33. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Ogden

41. Biotic Relationships.—Interrelationships of organisms with emphasis upon the lower plant forms. Prerequisite, Course 36. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Ogden

42. Forest Pathology.—Principles of plant disease, 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. **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

46. Genetics Laboratory.—Breeding of Drosophila. Study of plant materials. Supplementary reading. †*Four hours a week. Two credit hours.* Mr. Steinmetz, Mr. Ogden

****50. Histological Technique.***—Methods and technique in the preparation of microscopic sections of plant material. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* Mr. Hyland

53. Plant Physiology.—Classroom and laboratory work on the physiology of plants. Prerequisites, Course 1 (2) and one year of chemistry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Steinbauer

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* Admission by arrangement with instructor.

56. *Plant Pathology.*—Principles of plant disease. Open to juniors and seniors. Prerequisite, Course 1 (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 1 (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 1 (2). Offered in 1942. Classroom, *two hours a week;* laboratory and field, †*four hours a week. Four credit hours.* MR. STEINMETZ

Entomology

21. *General Entomology.*—Fundamental 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 forest and shade trees. Structure, metamorphosis, classification, and methods of control. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. DIRKS

23. *Taxonomy of Insects.—A general course on insects with emphasis upon identification and classification. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

26. *Entomology.*—Designed for students in Wildlife Conservation. Classification, identification, and life histories. Emphasis upon aquatic life. 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. Offered in 1941. 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 trees and to forest products. Prerequisite, Course 21 or 22. Given in 1942. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. DIRKS

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* Admission by arrangement with instructor.

49. **Economic Entomology.—An intensive study of the important insects of the orchard, garden, and farm. Prerequisite, Course 21 or 22. Classroom, *two hours a week;* laboratory, †*two 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 is required. *Credit, arranged.*
MEMBERS OF THE DEPARTMENTAL STAFF

105. 106. Problems in Entomology.—*Credit, arranged.* MR. DIRKS

107. 108. Problems in Botany.—*Credit, arranged.* MR. STEINMETZ

125. Graduate Thesis.—*Credit, arranged.* MR. STEINMETZ

FORESTRY

PROFESSOR DEMERITT; ASSOCIATE PROFESSOR ASHMAN; ASSISTANT PROFESSORS CHAPMAN, CURTIS, AND PEARCE; MR. BAKER; MR. MENDALL

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, MR. ASHMAN

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, MR. ASHMAN

3. Logging.—The lumber industry in the United States considered from an economic standpoint; an account of logging methods in different forest regions. Textbooks 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, in-

* Admission by arrangement with instructor.

cluding trails, telephone lines, and look-out towers. Forest fire control. *Four hours a week. Four credit hours.* MR. CURTIS

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

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

7. *Lumber Manufacture.*—Milling and marketing problems of the lumber industry in America. Forestry seniors only. First half-semester. *Four hours a week. Two credit hours.* MR. BAKER

8. *Silviculture.*—A study of methods used to establish forests and to maintain them profitably until maturity, including the harvesting of the final stand. Prerequisite, Course 35a. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* MR. CURTIS

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 and 34. First half of semester. *Two hours a week. One credit hour.* MR. BAKER

10. *Nursery Practice.*—The study of forest-tree seed and seedlings; seeding and transplanting in the State Forest Nursery; practice in field planting. Nursery management. A minimum of 48 hours of work in the nursery required. Last nine weeks. **Six hours a week. One credit hour.* MR. ASHMAN

12. *Wood Technology.*—Physical, mechanical, and chemical properties of the important commercial species of woods in the United States and their uses in the arts and trades. Prerequisites, Botany 33, 34, 35. *Two hours a week. Two credit hours.* MR. BAKER

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.* MR. CHAPMAN

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. BAKER

16. Wood Identification.—Identification and classification of the commercial woods of the United States based on simple lens inspection and other gross characters. Laboratory, **three hours a week. One credit hour.*
MR. BAKER

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. Prerequisites, Drafting 1 and 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

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 wildlife 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. First half-semester. Prerequisite, Course 8. *Four hours a week. Two credit hours.* MR. CURTIS

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. ASHMAN

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. Prerequisites, Courses 5, 6, and 8. Classroom, *three hours a week;* laboratory, †*two hours a week. Two credit hours.* MR. DEMERITT

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. ASHMAN

56. *Forest Management.*—Continuation of Course 55. Prerequisite, Course 55. *Two hours a week. Two credit hours.* MR. ASHMAN

57. *Game Management.*—Production of sustained annual crops in wild game. Field studies in game-census work, artificial restocking, and ecological factors controlling game populations. First half-semester. Classroom, *four hours a week;* laboratory, †*four hours a week. Three credit hours.*
MR. MENDALL

101. 102. *Forest Mensuration Problems.*—*Credit, arranged.*
MR. DEMERITT

103. 104. *Forest Management Problems.*—*Credit, arranged.*
MR. DEMERITT, MR. ASHMAN

105. 106. *Game Management Problems.*—*Credit, arranged.*
MR. PEARCE

125. *Graduate Thesis.*—*Credit, arranged.* MR. DEMERITT

Summer Courses

35s. *Silvics.*—The life factors determining the character and form of forest vegetation. The development of forest types and the silvical characteristics of stands. Prerequisites, Botany 33 and 34. **Sixteen hours a week. Two credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

37s. *Forest Mensuration.*—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.*—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

65s. *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

Course at Senior Camp

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.* MEMBERS OF THE DEPARTMENTAL STAFF

HOME ECONOMICS

PROFESSORS GREENE AND SWEETMAN; ASSISTANT PROFESSORS MUSGRAVE, CONEY, MCCARTHY, AND NESBITT; MRS. SNYDER; MISS BORGMAN; MRS. WHITE; MISS GOULD

1. Introduction to Home Economics.—A study of the problems of adjustment to college life and a survey of the professional fields open to Home Economics trained women. *Three hours a week. Three credit hours.* MISS GREENE, MISS NESBITT, MISS BORGMAN

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. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* MRS. WHITE

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. The House.—Selecting and furnishing the house in accordance with family needs and resources. Problems based on existing house conditions and a study of the effect of changing social, economic, and material factors. Prerequisites, Courses 3 and 14. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* MISS BORGMAN

5; 6. Foods.—Selection and preparation of foods in relation to nutritive quality, palatability, digestibility, sanitary quality, and economy and study of the food market from the consumer's standpoint. Laboratory work in the principles of buying and preparing foods and the planning and serving of family meals. Prerequisite, one year of chemistry, or one semester and parallel second semester. Classroom, *two hours a week;* laboratory, *†four hours a week. Four credit hours.* MRS. SWEETMAN, MRS. SNYDER

7; 8. Clothing Construction Problems.—A laboratory course dealing with the techniques of garment construction. The use of the sewing machine, commercial patterns, selection of materials, fitting and finishes are

included. Prerequisite, Course 3. Laboratory, †*four hours a week. Two credit hours.* MRS. WHITE

8a. Clothing Construction Problems.—A laboratory course, covering in one semester material in Course 7, 8. For students who have had adequate previous training in this field. Admission by arrangement only. Laboratory, †*four hours a week. Two credit hours.* MRS. WHITE

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. *Two hours a week. Two credit hours.* MISS BORGMAN

12. Senior Survey.—A comprehensive review to improve the student's command of home economics and related subject matter, and her ability to integrate, organize, and present it. Preparation for the examination consists of the making and use of outlines and bibliographies in the major divisions of the field. *One credit hour.*

MEMBERS OF THE DEPARTMENTAL STAFF

14 (15). 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 in a nursery school. Classroom and laboratory, *arranged. Three credit hours.* MISS NESBITT

17 (18). Applied Design.—a. Application of design principles to problems in textiles, including block printing, batik, decorative needlework, and hand weaving. Prerequisite, Course 3. Laboratory, †*four hours a week. Two credit hours.*

b. Similar to the above but with special emphasis on problems which may be used in home economics classes in secondary schools. Prerequisite, Course 3. Laboratory, †*four hours a week. Two credit hours.*

MISS MUSGRAVE

21 (22). Household Administration.—Students organize and execute activities of the home management house. Emphasis on attitudes essential to satisfactory group living and on managerial ability. Marketing, planning, preparing and serving meals, care of a young child, money manage-

ment, care of the house, and informal home entertaining. Seniors, or juniors by permission. *Two or three credit hours.* MISS BORGMAN

23 (24). Family Meals.—Food selection and preparation with emphasis on nutritional adequacy, moderate cost, and scientific methods of preparation. For Arts and Sciences students above freshman rank only. Classroom, *one hour a week;* laboratory, †*four hours a week.* (Given one semester only.) *Three credit hours.* MRS. SWEETMAN, MRS. SNYDER

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 and Sciences students. Corresponds in part to Course 14. Laboratory includes experience in the nursery school. Classroom and laboratory, *arranged. Three credit hours.* MISS BORGMAN

28. Camp Feeding.—Problems involved in selection, purchase, and preparation of food for camp groups. Open to Forestry juniors by permission of the Head of the Forestry Department, and to others by permission of the instructors in charge of the course. Classroom and laboratory, *three hours a week. Two credit hours.* MRS. SNYDER

43 (44). House Furnishing.—House furnishing as an art. Problems in choice and arrangement of furniture and materials to satisfy aesthetic and functional requirements. Given in the fall of 1940 and alternate years. Prerequisites, Course 3 and Course 4, or special permission of the instructor. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MISS MUSGRAVE

45 (46). Advanced Clothing Construction.—Laboratory problems in selecting and constructing tailored coats and suits. A portion of the semester is given to the problem of selecting and constructing children's clothing. Laboratory, †*four hours a week. Two credit hours.* MRS. WHITE

47 (48). Fundamentals of Costume Design.—Elements and principles of costume design. Prerequisite, Course 3. Laboratory, †*two hours a week. One credit hour.* MISS MUSGRAVE

49 (50). Clothing Patterns.—Use of commercial pattern for making individual foundation pattern. Problems in designing and changing of designs with use of pattern; its aid in fitting problems, and use in construction of garments. Laboratory, †*four hours a week. Two credit hours.* MISS MUSGRAVE

51. Clothing Economics.—Study of fashion, retailing and standards as an aid to consumer buying of clothing. *One credit hour.* MISS MUSGRAVE

52. Draping.—By means of draping in fabric opportunity is afforded for working out problems in color, design, and texture in formal and informal dresses. Given in 1942 and alternate years. Prerequisite, Course 51. Laboratory, †*four hours a week. Two credit hours.* MISS MUSGRAVE

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, Course 51. *Three hours a week. Three credit hours.* MISS GREENE

55 (56). Home Economics Education.—The teaching of home economics in junior and senior high schools. A study of setting up objectives in relation to student and community needs and the selection of effective teaching procedures, as illustrated in texts, courses of study, and current literature. *Three hours a week. Three credit hours.* MISS GREENE

57a. Food Preservation.—The principles and recommended practices for household food preservation with emphasis on canning. Prerequisite, Course 6. Parallel, Bacteriology 3 and 5. *One credit hour.*

MRS. SWEETMAN

57b. (58b). Demonstrations.—The planning and giving of demonstrations illustrating recommended practices for the home with emphasis of food preparation. Open to seniors and juniors by special permission. *One credit hour.* MISS MCCARTHY

57c (58c). Nursery School Meals.—The planning, preparing, and serving of meals for the nursery school. Prerequisite, Course 65. *One to two credit hours.* MISS BORGMAN

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. *One to six 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 peroids 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. Classroom, *two hours a week.* Laboratory, for students in nursing only, †*two hours a week. Two or three credit hours.* MRS. SWEETMAN

65 (66). Dietetics.—Calculation and preparation of dietaries for normal individuals at all ages. Prerequisite, a project in foods or permission of instructor. †*Four hours a week. Two credit hours.* MRS. SNYDER

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. Prerequisite, Course 63. *Two credit hours.* MRS. SWEETMAN

71 (72)a. Supervised Teaching.—Directed teaching in home economics. Students teach classes in the junior high school at Brewer. *Two credit hours.* MISS GOULD

71 (72)b. Supervised Teaching.—Similar to 71, 72a, but in centers other than Brewer. MISS CONEY

73. 74. Supervised Field Teaching.—Observation, participation, and teaching for two weeks' period each semester in a selected junior or senior high school in the State, under the immediate direction of the local teacher. *Two weeks full time. Two credit hours,* each semester. MISS CONEY

78. Advanced Home Economics Methods.—Detailed development of selected unit of work. Study of the home project, selection and use of illustrative material, classroom management, and equipment. *Two hours a week. Two credit hours.* MISS CONEY

81 (82). Institutional Foods.—Problems of group feeding, as menu planning, food buying procedures; application of food preparation principles to large quantity cookery; use of heavy duty equipment. A faculty dining room is operated as a laboratory for the course. Prerequisites, Courses 5 and 6. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MISS MCCARTHY

84. Institutional Management.—Problems of organization, management, equipment and cost control in residence halls, cafeterias and hospital dietary departments. Field trips. Prerequisite, Course 81 (82). Classroom, *two hours a week. Two credit hours.* MISS MCCARTHY

85 (86). School Lunch.—A study of the special institutional management problems of the school lunch. Laboratory practice in the planning, preparation, and serving of low-cost lunches. Lecture and laboratory, *arranged. One credit hour.* MISS MCCARTHY

87 (88). Institutional Foods Management Laboratory.—Managerial responsibilities in tea room and school-lunch service. Prerequisite, Course 81 (82). Laboratory, **three or six hours. One or two credit hours.* MISS MCCARTHY

91. Costume Design.—Problems in dress design for various persons and occasions. Designing chiefly in pencil and water color. Given in 1941 and alternate years. Prequisite, Course 3. Laboratory, †*six hours a week. Three credit hours.* MISS MUSGRAVE

92. Costume Design.—Advanced dress design problems using a variety of mediums including paper, paint, and fabric. Course 52 prerequisite or parallel. Given in 1941 and alternate years. Laboratory, †*six hours a week. Three credit hours.* MISS MUSGRAVE

101 (102). Advanced Nutrition.—Methods of research in nutrition and recent advances in the field. Prerequisite, Course 63. Offered if sufficient demand. *Two or three credit hours, as arranged.* MRS. SWEETMAN

103 (104). Food Economics.—The relation of the quality of nutrition to family incomes, household production programs, food prices, and consumer-buying skills. Social and economic factors involved in improving nutritional status. Prerequisites, Courses 63 (64) and 65 (66) or permission of the instructor. *Two credit hours.* MRS. SWEETMAN

125. Graduate Thesis.—In Home Economics or Home Economics Education. *Credit, arrangd.* MISS GREENE, MRS. SWEETMAN, MISS CONEY

HORTICULTURE

PROFESSOR WARING; ASSISTANT PROFESSORS CLAPP AND 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.—Principles and methods of propagating plants. Given in 1941-42 and alternate years. First nine weeks. Classroom, *four hours a week;* laboratory, †*four hours a week. Three credit hours.*

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 on selected or assigned horticultural subjects, preparation of abstracts and papers, classroom presentation and discussion. Staff members and invited guests participate. *One hour a week* by arrangement. *One credit hour.* MR. WARING

54. Plant Propagation.—A continuation of Course 4 into more advanced phases of the subject. Given in alternate years with Course 4. Classroom, *two hours a week. Two credit hours.* MR. CLAPP

101. 102. Horticultural Investigations.—*Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

103. 104. Research Methods.—Application of scientific method and equipment to horticultural problems and preparation of manuscript for publication. *Credit, arranged.* MR. WARING

125. Graduate Thesis.—*Credit, arranged.* MR. WARING

Pomology

1. Fruit Handling.—The harvesting, grading, packing, inspection, storage, transportation, selling, and processing of apples, chiefly, but with minor attention to other tree fruits. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WARING

9. Fruit Judging.—The selection of apples for exhibition, the identification of varieties, the recognition of blemishes according to causal agents, and judging. Open to any interested student. Laboratory, †*four 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 1942-43 and alternate years. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* MR. WARING

55. Advanced Pomology.—An advanced treatment of principles and methods involved in the planting and management of orchards. Given in alternate years with Course 53. Classroom, *two hours a week;* laboratory, *†two 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.—Woody plant materials, emphasizing identification, nomenclature, their special characteristics, and management. Classroom, *two hours a week;* laboratory, **three hours a week. Three 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, Old Town, and Mt. Desert Island. Prerequisite, training in mechanical drawing. 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 architecture. 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

POULTRY HUSBANDRY

PROFESSOR SMYTH; ASSISTANT PROFESSOR GARDNER

1. General Poultry Husbandry.—A general course in poultry production, incubation, brooding, housing, 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. 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

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

22. 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

25. 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

26. Poultry Farm Management.—The business of poultry farming; systems and operations in use on large poultry farms; planning of specialized poultry farms. Insofar 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

****40. 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

51. 52. Problems in Poultry Husbandry.—*Credit, arranged.* MR. SMYTH

53. 54. Seminar.—A study of poultry organizations and literature giving results of recent research work in the field of poultry husbandry. Prerequisites, Courses 1, 3, and 22. *One hour a week. One credit hour.* MR. SMYTH

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 any summer recess between the freshman and senior years. Freshman-Sophomore Project

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* The description of this course also appears under the Department of Animal Industry.

is designated Pj 1, and Sophomore-Junior Project is designated Pj 2, each 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

DIRECTOR LORING

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

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. OGDEN

Farm Chemistry.—A review of general chemistry; chemistry of plant and animal life as related to agriculture; fungicides and insecticides; gasoline and oil. *Two hours a week. Two credit hours.* MR. SMITH

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-shed 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

Potato Production.—Consideration of the principles and practices involved in the production of potatoes under Maine conditions. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. LIBBY

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. ROGERS

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.* ENGLISH DEPARTMENT

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. NIEDERFRANK

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. LIBBY

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

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.* ENGLISH DEPARTMENT

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. NIEDERFRANK

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 livestock; composition and characteristics of feed stuffs; calculating rations; and the best practices in feeding farm animals. Classroom, *three hours a week;* laboratory, †*two huors 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.*
ENGLISH DEPARTMENT

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 designed to acquaint the student with the construction, operation, and care of farm machinery. 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 cooperative marketing. *Three hours a week. Three credit hours.* MR. NIEDERFRANK

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

College of Arts and Sciences

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 preeminently 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, and to enrich 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 interests it seeks to serve. It offers, for example, a specific curriculum to those who contemplate entering the professional schools of medicine, nursing, dentistry, law, government, business, social work, the arts, and many others. 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 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 of the College of Arts and Sciences leads to the degree of Bachelor of Arts (B.A.). Beginning with the class of 1940, men students not excused from taking Military Science are required to complete 127 hours. For men required to take less than two full years of Military Science, the total of credit hours is reduced proportionately. All other students are required to complete 120 credit hours.

Every candidate for the 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. In addition, two years' work in Physical Training is required of all students, without credit. Seven hours of Military Science are required of men students. Women in the College take Elementary Hygiene in their freshman year.

Eighteen to twenty-four hours must be completed in the major field during the last two years. Ninety-five of the hours taken must be of C grade or better. No more than the equivalent of 130 hours, exclusive of Elementary Military Training, may be taken to satisfy this 95 hour C requirement. If a student transfers from another institution, he must also satisfy the 95 hour C requirement. Grades below C are not accepted from other institutions.

A satisfactory grade on the comprehensive examination is a requirement for the degree in certain departments.

Satisfactory work in written English is required throughout the college course.

Students who transfer to this college as sophomores from another college of the University must complete one fourth of the total hours required in the college from which they transferred plus 90 hours in the College of Arts and Sciences; juniors must complete one half of the total hours, plus 60 hours; and seniors three fourths of the total hours, plus 30 hours. They must also satisfy the 95 hour C requirement. 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 and Sciences 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

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 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.

Students should consult the head of the appropriate language department for the rules pertaining to the reading test.

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 advised to elect courses from each of the following groups:

I. **English.** English 1, 2 or 11, 12 is definitely required unless the student is admitted by the department to a more advanced course.

II. **Foreign Language:** Greek, Latin, French, Spanish, German. Students who pass a reading test in an approved foreign language may be excused from this requirement.

III. **Social Studies:** Social Science 1, 2, American History, European history, Modern Society, and Western Civilization. Students who do not wish to take further work in History may satisfy the social science requirement for the degree in the sophomore year by taking a basic course in Economics, Government, or Sociology.

IV. **Natural Science and Mathematics:** The requirements in this division may be satisfied by approved courses of six or eight hours of natural science or mathematics.

Military Science and Physical Training are required of all men unless they are physically disqualified.

Selected students may take advanced courses in Infantry during their junior and senior years. Six credit hours for the degree of Bachelor of Arts are granted for two years of advanced Military.

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 six 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 Dean is assisted by faculty advisers whose purpose is to give each student individual guidance and attention during this period.

THE LAST TWO YEARS

In the latter part of the spring 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 instructor a tentative curriculum for his two remaning years. This special field is chosen without refer-

ence 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

Most departments in the College require comprehensive examinations of their senior major students. Certain departments also give basic or preparatory comprehensives, in the spring semester of the junior year. The purpose of the comprehensive 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 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. A satisfactory grade on the comprehensive examination is a requirement for the degree.

HONORS PROGRAM

A program of Honors Work for the benefit of the superior student has been adopted by the College of Arts and Sciences. The purpose is to encourage exceptional ability by affording unusual opportunities for the exercise of that ability and by rewarding high achievement with appropriate distinction. The opportunities are intended especially to stimulate originality, intellectual curiosity, and resourcefulness, and they require a large measure of self-reliance. The Honors courses do not involve the attending of classes, but are conducted by the tutorial method, according to which the student does his work under the supervision of a tutor, whom he meets in conference at regular intervals for advice and informal discussion. The rewarding distinction, which is the highest offered in the College of Arts and Sciences, is conferred upon the successful completion of all or a sufficient part of the Honors program, in the form of graduation Honors, which are of three grades: Honors, High Honors, Highest Honors.

Application for admission to any course in the Honors program should be made to the Dean of the College of Arts and Sciences. As a rule, a general average of B in the whole of the applicant's previous record will be required for admission, but each applicant will be judged according to his individual merit, especially as regards his possession of the particular qualities, such as initiative and self-reliance, which are deemed essential to success in Honors work.

PROFESSIONAL CERTIFICATES FOR TEACHERS

The Professional Secondary Certificate is granted for a period of two years to graduates of the College who have completed not less than eighteen semester hours in education, not more than six semester hours of which may be in the field of psychology. Courses recommended for satisfaction of this requirement are as follows: General Psychology, History of Education, Educational Measurements, Methods of Teaching in Secondary Schools, and Principles of Secondary Education or Practice Teaching. In addition, candidates are expected to complete a major and at least one minor teaching subject. 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. To be satisfactory, all of these required courses, both academic and professional, must be completed with a grade of C or better.

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 instructor 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 or senior standing as a candidate for the Bachelor of Arts degree.

SUMMER SESSION

Before students of the College of Arts and Sciences pursue Summer Session courses in any institution other than the University, they must gain the approval of the Dean in writing. A marked bulletin of the institution should be left at the Dean's office with a note requesting degree credit for the selected courses.

MARINE LABORATORY AT LAMOINE

The University, through the Zoology Department of the College of Arts and Sciences, offers a six-weeks course in marine invertebrate zoology at the Lamoine laboratory on Frenchman's Bay. The students collect and study the wide variety of types from every phylum of the invertebrate group. Course work is offered for both undergraduate and graduate credit. The nature of the course makes it possible for the student to receive the type of instruction which will best serve his or her special interest.

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 pre-

scribed. The student's own interests and aptitudes will naturally determine to some extent his choice of subjects. Only a few of the curricula in the College of Arts and Sciences are given here. There are a number of others which may be procured by writing to the Dean of the College.

Five-Year Curriculum in Liberal Arts and Nursing

College of Arts and Sciences in cooperation with
Central Maine General Hospital, Lewiston
Eastern Maine General Hospital, Bangor
Maine General Hospital, Portland

First Year

University of Maine

FALL SEMESTER			Hours	SPRING SEMESTER			Hours
Ch	5	Inorganic Chemistry	4	Bc	4	Organic Chemistry	4
Eh	1	Freshman Composition	3	Eh	2	Freshman Composition	3
Fr	3 or 5	French	3-4	Fr	4 or 6	French	3-4
Pe	1	Physical Education	0	Pe	2	Physical Education	0
Py	1	General Psychology	3	Py	2	General Psychology	3
Zo	3	Animal Biology	4	Zo	12	Anatomy and Physiology	5

Summer Session, six weeks in School of Nursing

Second Year

University of Maine

			Hours				Hours
Bc	5	Biochemistry	4	By	10	Sanitation and Health	2
By	1	Bacteriology	2	He	64	Nutrition	3
By	3	Bacteriology	3	Pe	4	Physical Education	0
Pe	3	Physical Education	0	Ps	4	Descriptive Physics	3
Py	67a	Child Psychology	3	Py	72	Abnormal Psychology	3
Sy	1	Sociology	3	Sy	2	Sociology	3

Third Year

School of Nursing, July 1-July 1

Fourth Year

School of Nursing, July 1-Aug. 31

Fifth Year

University of Maine

FALL SEMESTER		Hours	SPRING SEMESTER		Hours
Eh 9	Modern Literature	2	Es 2a	Economics	3
Es 1a	Economics	3	Zo 18	Embryology	4
Zo 41	Histology	3	Zo 56n	Seminar	2
Zo 55n	Seminar	2		Elective	5-6
	Elective	5-6			

School of Nursing

General Distribution of Time

Preliminary period	98-120 days
Medical Nursing	150 "
Surgical Nursing	226 "
Pediatrics	90 "
Operating Room	60 "
Diet Kitchen	28 "
Obstetrics	90 "
Formulae Room	7 "
Elective	142-156 "

Specimen Major Curriculum for Pre-Legal Studies

Freshman Year

		Hours			Hours
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
My 1	Modern Society	3	My 2	Modern Society	3
Pt 1	Physical Education	—	Pt 2	Physical Education	—
	*Foreign Language	3		*Foreign Language	3
	Natural Science	3		Natural Science	3

* To be continued until the student has passed his reading test.

Sophomore Year

FALL SEMESTER			Hours	SPRING SEMESTER			Hours
Eh	7	Second-Year Composition	3	Eh	8	Second-Year Composition	3
Gt	1	Introduction to Government	3	Gt	2	Introduction to Government	3
Mt	3	Military Training	2	Mt	4	Military Training	2
My	3	Modern Society	3	My	4	Modern Society	3
Pt	3	Physical Education	—	Pt	4	Physical Education	—
Py	1	Psychology	3	Py	2	Psychology	3
Sy	1	Principles of Sociology	3	Sy	2	Principles of Sociology	3

Junior Year

			Hours				Hours
Ba	9	Accounting	3	Ba	10	Accounting	3
Eh	3	History of English Lit.	3	Eh	4	History of English Lit.	3
Gt	33	Municipal Government	3	Es	52	Business and Government (or Ba 60, Personnel Management)	3
Gt	51	Public Administration	3	Gt	32	State Government	3
Hy	17	History of England	3	Hy	18	History of England	3

Senior Year

			Hours				Hours
Ba	51	Corporation Finance (or Ba 53, Money and Banking)	3	Ba	54	Investments and Investment Banking	3
Es	71	Public Finance (or Es 73, Labor Problems or Ba 55, Business Law)	3	Es	74	Labor and Government (or Es 80, American Labor Movement or Ba 56, Business Law)	3
Gt	73	International Relations	3	Gt	74	International Relations	3
Gt	83	American Constitution	3	Gt	84	American Constitution	3
Sh	1	Speech	2	Py	76	Social Psychology	3
				Sh	4	Debate	2

Specimen Major Curriculum for Business Administration

Freshman Year

FALL SEMESTER			Hours	SPRING SEMESTER			Hours
Cv	1	Western Civilization	3	Cv	2	Western Civilization	3
Eh	1	Freshman Composition	3	Eh	2	Freshman Composition	3
Mt	1	Military Training	1½	Mt	2	Military Training	1½
My	1	Modern Society	3	My	2	Modern Society	3
Pe	1	Physical Education	—	Pe	2	Physical Education	—
		†Foreign Language	3-4			†Foreign Language	3-4
		‡Elective: Mathematics or Natural Science	3-4			‡Elective: Mathematics or Natural Science	3-4

† To be continued until the student has passed his reading test.

‡ A basic course in mathematics would be helpful to majors in Business Administration.

Sophomore Year

			Hours				Hours
Ba	9	Accounting	3	Ba	10	Accounting	3
Cv	3	Western Civilization	3	Cv	4	Western Civilization	3
Ms	17	Math. Theory of Invest.	2	Ms	18	Math. Theory of Invest.	2
Mt	3	Military Training	2	Mt	4	Military Training	2
My	3	Modern Society	3	My	4	Modern Society	3
Pe	3	Physical Education	—	Pe	4	Physical Education	—
Py	1	General Psychology	3	Py	2	General Psychology	3
		Elective	1-2			Elective	1-2

Junior Year

			Hours				Hours
Ba	51	Corporation Finance	3	Ba	54	Investments and Investment Banking or Es 64 International Trade and Finance	3
Ba	53	Money and Banking	3	Es	52	Business and Government or Es 74 Labor and Government	3
Es	33	Labor Problems	3	Hy	60	Economic and Social History of the United States	3
Hy	59	Economic and Social History of the United States	3	Ms	20	Statistics	3
Ms	19	Statistics	3	Py	12	Advertising	3

Senior Year

		Hours			Hours
Ba 55	Business Law	3	Ba 56	Business Law	3
Ba 59	Business Management and Policy	3	Ba 60	Personnel Management	3
Ba 95	Seminar	2	Ba 96	Seminar	2
Cp 39	Literature of Social Change	3	Cp 40	Literature of Social Change	3
Eh 25	The Newspaper in the 20th Century	3	Es 62	Business Cycle or Es 76 Public Utilities	3
Es 71	Public Finance	3	Gt 32	State Government	3

Specimen Major Curriculum in American Literature and American History

(Subject to modifications to fit individual student needs)

Freshman Year

FALL SEMESTER		Hours	SPRING SEMESTER		Hours
Eh 1 or 11	Freshman English	3	Eh 2 or 12,	Freshman English	3
Hy 3	United States History	3	Hy 4	United States History	3
Foreign Language		3-4	Foreign Language		3-4
Natural Science or Mathematics		3-4	Natural Science or Mathematics		3-4
Mt 1, Military, or Pe 21, Hygiene		1½-2	Mt 2, or At 4, Cultural America		1½-2
Elective: Speech, Music, or Art History		2	Elective: Speech, Music, or Art History		2
Pe 1	Physical Training	—	Pe 2	Physical Training	—

Sophomore Year

		Hours			Hours
Eh 3	History of English Lit. (for Eh 11, 12 students: elective)	3	Eh 4	History of English Lit. (for Eh 11, 12 students: elective)	3
Eh 7	Second-Year Composition	3	Eh 8	Second-Year Composition	3
Hy 5	European History	3	Hy 6	European History	3
Hy 17	History of England	2	Hy 18	History of England	2
Mt 3	(for men), and elective*	5-6	Mt 4	(for men), and elective*	5-6
Pe 3	Physical Training	—	Pe 4	Physical Training	—

* Py 1, 2, General Psychology, is required for prospective teachers.

Junior Year

FALL SEMESTER		Hours	SPRING SEMESTER		Hours
Eh 71	American Literature	3	Eh 72	American Literature	3
Eh 35	Contemp. American Drama, or Eh 69, American Novel	2-3	Eh 46	Contemporary American Lit.	3
Hy 59	Soc. & Indust. Hist. U. S. or Hy 57, Amer. Colonial History	2-3	Hy 60	Soc. & Indust. Hist. U. S. or Hy 57, Amer. Colonial History	3-2
Gt 1	Introduction to Government	3	Gt 2	Introduction to Government	3
Es 1a	Principles of Economics (for teachers, Ed 51, 59, 65, or 77)	3	Es 2a	Principles of Economics (for teachers, Ed 52, 66, or 78, or Eh 84)	3

Senior Year

		Hours			Hours
Cp 75	European Literature, or Eh 57, Shakespeare	3	Cp 76	European Literature, or Eh 58, Shakespeare	3
Hy 67	Am. Diplomatic History, or Gt 73, International Relations	3	Hy 68	Am. Diplomatic History, or Gt 74. International Relations	3
Eh 67a	The American Language	2	Pl 4	Historical Intro. to Philosophy	3
Pl 3	Historical Intro. to Philosophy	3	Electives: Social Science, Comp. Lit., or Eh 84, Teach. of Eng.		6
Electives: Social Science, Comparative Lit., or Ed 29 or 77		4-6			

Specimen Major Curriculum for Pre-Professional Preparation for Social Service Work

Freshman Year

		Hours			Hours
Eh 1	Freshman Composition	3	Eh 2	Freshman Composition	3
Mt 1	Military Training	1½	Mt 2	Military Training	1½
My 1	Modern Society	3	My 2	Modern Society	3
Pe 1	Physical Education	—	Pe 2	Physical Education	—
Pe 21	Hygiene	2	Sh 2	Public Speaking	2
Zo 3	Animal Biology	4	Zo 4	Animal Biology	4
	*Foreign Language	3-4		Foreign Language	3-4

* To be continued until the student has passed his reading test.

Sophomore Year

FALL SEMESTER			Hours	SPRING SEMESTER			Hours
Cp	39	Lit. of Social Change	3	Cp	40	Lit. of Social Change	3
Gt	1	Intro. to Government	3	Gt	2	Intro. to Government	3
Mt	3	Military Training	2	Mt	4	Military Training	2
Py	1	General Psychology	3	Py	2	General Psychology	3
Sy	1	Principles of Sociology	3	Sy	2	Principles of Sociology	3
		Electives: Art, Music, Philosophy, or Drama		Sy	20	Field of Social Work	3

Junior Year

			Hours				Hours
Eh	71	American Literature	3	Eh	72	American Literature	3
Es	33	Labor Problems	3	Sy	52	Child Welfare	3
Sy	61	Social Pathology	3	Sy	62	Criminology	3
Sy	65	Urban Sociology	3	Sy	84	Race Relations	3
		Elective: Economics, Government, Psychology				Elective: Economics, Government, Psychology	

Senior Year

			Hours				Hours
Gt	51	Public Administration	3	Ba	60	Personnel Management	3
Py	71	Abnormal Psychology	3	Py	72	Mental Hygiene	3
Sy	57	Group Work Leadership	3	Sy	86	Social Change	2
Sy	83	Population	3	Sy	96	Sociology Seminar	2
Sy	95	Sociology Seminar	2			Elective: Maine Government, Current World Problems	
		Elective	3				

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 [e.g., 1 (2)].

When a dash is used between the two numbers (e.g., 1-2), both semesters must be taken to obtain credit; when a semicolon is used (e.g., 1;2), the first semester may be taken by itself, but the second cannot be taken unless the first semester is taken previously; when a period is used (e.g., 1.2), either semester may be taken for credit.

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 with 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.

ARRANGEMENT OF SUBJECTS IN GROUPS

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I. Mathematics and Natural Sciences
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II. Social Sciences and Philosophy
- Psychology 218
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- Sociology 181
- Economics 181
- Government 201
- History 198
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- Philosophy 212
- Religion 221
- Western Civilization 209

III. Languages, Literature, and Fine Arts
- Classics 179
  - Greek 179
  - Latin 179
- Romance Languages 222
  - French 223
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- German 196
- Comparative Literature 194
- English 188
  - Literature 191
  - Composition 189
  - Linguistics 194
  - Journalism 193
- Speech and Dramatics 227
- Music 210
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IV. Honors Courses 203

ART HISTORY

PROFESSOR HUDDILSTON

1. 2. Masterpieces of Art.—A general survey course covering distinctive values of art in the great periods, with special regard to architecture as a key to the spirit of the ages. Textbook, lectures, and interpretations in the art gallery. Open to all students. *Three hours a week.*

3. Renaissance Art.—A study of some of the important Florentine and Venetian masters; the work is pursued not only for the art history but also for the broader values of the birth of the modern world. Lectures and reports based on a study of photographs. Given in 1940-41 and alternate years. Open to all students. *Two hours a week.*

4. Cultural America.—A course of lectures on the relation of the fine arts to our national spirit. Designed to throw light on the history of the United States and to stimulate a broader interest in art particularly as affecting the general public of today. *Two hours a week.*

5. Greek Art.—An intimate examination of the principles of Greek architecture and sculpture with a view to understanding the technique and achievements of the Greeks. Lectures and study in the collection of photographs and in the art gallery. Given in 1941-42 and alternate years. Open to all students. *Two hours a week.*

7. Chinese Culture.—A general survey of ancient China's intellectual and aesthetic ideals as reflected in her philosophy, painting, and pottery. Not open to freshmen. Given in 1941-42 and alternate years. *Three hours a week.*

9 (10). A Preface to Art History.—Lectures on the periods of western art following the arrangement of material in the art gallery. Intended for beginners who desire a brief introduction to the study of architecture, sculpture, and painting through the ages. May be taken only one semester. Reading will supplement the lectures. *One hour a week.*

11. American Painting.—Exploration of the question "Have we an American art?" After a survey of the progress of painting from the 18th century, with an appraisal of the English, German, and French influences on our painting, the lectures deal with the causes and trends of the present-day upswing in art interest and "the American scene." Lectures, textbook, and readings. Open to all students. *Two hours a week.*

ASTRONOMY

PROFESSOR WILLARD; ASSOCIATE PROFESSOR JORDAN

The courses in astronomy aim to meet the demands of students seeking a knowledge of the subject for purposes of general culture, and for technical or professional uses. Opportunity is offered for students to acquire such information as will enable them to appreciate more fully the universe in which they live. Courses may be selected which provide instruction in theoretical astronomy and observatory practice.

10. Descriptive Astronomy.—An elementary course. The textbook is supplemented by informal lectures, illustrated by lantern slides 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 the theory and observations used 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 and one-half hours a week.* MR. JORDAN

14. Navigation.—An elementary course dealing primarily with the determination of the position of a ship at sea. The material discussed in the course forms the basis of airplane navigation during long flights. Open to students who have a working knowledge of trigonometry. *Two hours a week.* MR. JORDAN

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 1941-42 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 1940-41 and alternate years. *Three hours a week.* MR. JORDAN

CHEMISTRY

Professors Bradt, Brann, and Brautlecht; Associate Professor Otto; Assistant Professor Douglass; Mr. Bogan; Mr. Brewer; Mr. Martin; Mr. Tomlin

The Department of Chemistry opens to the general student of the liberal arts one of the principal avenues of approach to the understanding of Nature and of the manifold complexities of life in an advanced industrial society such as ours.

For those students who wish to pass beyond a general appreciation of chemical science and to attain the training necessary for entering one or other of the numerous occupations for which more advanced work in chemistry is prerequisite, the following vocational possibilities are suggested as representative:

a. *Industry and Municipal Service.* Graduates in chemistry are often in demand for non-laboratory positions in industries manufacturing or employing chemicals; positions as research librarians, purchasing agents, secretaries, personnel workers, salesmen, advertisers. They are also employed in laboratory positions as analysts for police departments, water works, gas companies, ice plants, and producers of fertilizers, insecticides, drugs, flavors, and many other commodities.

b. *Government Bureaus.* Many arts college graduates trained in chemistry are now holding positions in various government agencies, such as the Patent Office, the Bureau of Chemistry, and the Department of Agriculture.

c. *Medicine.* Training in chemistry is prerequisite for entrance to medical and dental schools, and for such positions as those of technicians in hospitals, as well as for most branches of medical research.

d. *Education.* Students interested in the teaching of chemistry in secondary schools can readily qualify for this profession by the satisfactory completion of a program arranged through the cooperation of this department with the School of Education.

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, 72, and 85. Some biological science is required, also some mathematics and physics.

Courses in the Department of Chemistry are described on page 268 under the College of Technology.

CLASSICS

PROFESSOR HUDDILSTON; ASSISTANT PROFESSOR SMITH

Greek

MR. HUDDILSTON; MR. SMITH

The work in Greek is arranged with the idea of presenting several 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 preparatory school, may desire to include in his college course some work bearing on the permanent contributions of the ancient Greeks 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.

1-2. Beginning Greek.—Unsimplified passages from Greek authors, progressing from single sentences, e.g., lines from Menander, to more complex passages from Plato and Xenophon. *Four hours a week.* MR. SMITH

3. Greek Life and Culture.—A brief study of important features of the Greek legacy in art and literature. Assigned readings and lectures. Open to all students. *Two hours a week.* MR. HUDDILSTON

4. Greek Ideals.—The development of Greek thought from Homer down to the period of the Hellenistic philosophies. The social and aesthetic significance of the Greek festivals and the Athenian ideas of education and democracy receive special attention. Open to all students. *Two hours a week.* MR. HUDDILSTON

51. Greek Poetry.—A general survey which does not presuppose any knowledge of the Greek language. The main attention is given to Homer and writers of the drama; considerable reading is done in English translation. Given in 1940-41 and alternate years. *Three hours a week.* MR. HUDDILSTON

Latin

MR. SMITH

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 are also designed to give such knowledge of the Latin language and methods of teaching as would be required of a well-trained secondary-school teacher.

Students who major in Latin are expected to complete at least eighteen hours of work in approved courses. These will normally be numbered higher than 22. For six of these hours two semester-courses in Greek Language and Literature, involving at least six hours of work, may be substituted.

Teacher Training. Students in the College of Arts and Sciences or the School of Education who, although not majoring in Latin, expect to offer Latin as a teaching subject should take courses 5, 6, 7, 8, 9, 10, 21, 22. Grades should be C or better in all courses.

Combined Major. Latin may be taken with another subject, linguistic or otherwise. Latin and French are a good combination for prospective teachers.

3. Cicero.—Open to students who have completed two years' study of Latin in high school. *Four hours a week.*

4. Vergil.—Open to students who have completed two years' study of Latin in high school. *Four hours a week.*

5. Cicero and Horace.—Reading of the *De Senectute* with some attention to Cicero's religious thought; study of the lyric poetry of Horace. *Three hours a week.*

6. Livy.—Selections from the *History of Rome.* Reading, with discussion of language and Roman history. *Three hours a week.*

7. 8. Latin Composition.—*One hour a week.*

9. Terence and Plautus.—A study of the development and characteristics of Roman comedy as seen in the *Phormio* of Terence and the *Captivi* of Plautus. *Three hours a week.*

10. Tacitus.—Reading and discussion of the *Agricola* and the *Germania.* This course involves an introduction to the history of the Roman Empire. *Three hours a week.*

21. 22. Latin Composition.—Either semester is open to students who have completed Latin 7, 8 or the equivalent. *One hour a week.*

21A. 22A. Latin Composition for Teachers.—This course combines the content of Latin 21. 22 with discussion of the practical problems of teaching Latin in high schools. *Two hours a week.*

25. 26. Collateral Reading.—Supervised reading in English on topics concerned with ancient Rome selected to meet the interests of individual students. No work in Latin is prerequisite. *Two hours a week.*

Major Students.—These will be advised to choose courses numbered above 20 which have been described in previous issues of the catalog.

ECONOMICS AND SOCIOLOGY

PROFESSORS KIRSHEN, ASHWORTH, ALLEN, AND CHADBOURNE; ASSOCIATE PROFESSOR LAMSON; MR. HOBBAH; MISS E. G. WILSON; MR. BURTT; MR. WHITNEY; MR. STUART; GRADUATE ASSISTANT, MR. YOUNG

Cooperating members of the Department:

MR. DOW, Head of the Department of History and Government
MR. LEVINSON, Head of the Department of Philosophy
MR. MARCY, Instructor in Agricultural Economics and Farm Management

It is the purpose of Economics and Business Administration to assist the student in understanding the way in which society produces and regulates its wealth. Economics is a social science and as such it deals with the broad problems of any social system. Not only does the department encourage the student to select an occupation or profession, but it also wishes the student to be a thinking citizen capable of analyzing and solving the social problems of his time. To these ends the work of the department is directed.

Students may major in one or any combination of three fields: (1) Economics, (2) Business Administration, (3) Sociology. A minimum of eighteen hours is required, excluding elementary courses.

Students may combine a major in the department with any other of the social sciences: Government, History, Philosophy, and Psychology.

Specific Requirements:

Economics: My 1; 2; 3; 4, Modern Society (or Es 1a; 2a, Principles of Economics in those cases where the student has been unable to register for the Modern Society sequence); Es 95; 96, Senior Seminar.

Business Administration: My 1; 2; 3; 4, Modern Society (or Es 1a; 2a, Principles of Economics in those cases where the student is unable to register for the Modern Society sequence); Ba 9; 10, Accounting; Ba 95; 96, Senior Seminar.

Sociology: Sy 1; 2, Principles of Sociology; Sy 95; 96, Senior Seminar.

Senior majors in the department are required to pass an oral comprehensive examination in the spring semester.

Students are expected to receive an average grade of C or better in all prerequisites for advanced courses in which they intend to register unless this rule is waived by the department.

Division of Economics

1a; 2a. Principles of Economics.—A study and analysis of the fundamental characteristics and institutions of modern economic society. The principles underlying the production, distribution, and consumption of wealth are considered. *Three hours a week.*

MR. ASHWORTH, MR. ALLEN, MR. HOBBAH, MR. BURTT, MR. STUART

1b; 2b. Principles of Economics.—A short course similar to Course 1a; 2a, for students in Technology and Agriculture. *Two hours a week.* MR. HOBBAH, MR. YOUNG

33. Labor Problems.—The aims, structure and methods of labor organizations as related to the problems that confront the workers in our present-day economy. This course is a prerequisite for Es 74 and Es 80. *Three hours a week.* MR. BURTT, MR. STUART

52. Business and Government.—This course deals with the extension of government control over business activities for the purpose of social welfare, economic reform, and business recovery. Given in 1941-42 and alternate years. *Three hours a week.* MR. BURTT

62. The Business Cycle.—Theories of the nature, prediction, and control of the business cycle. Given in 1942-43 and alternate years. *Three hours a week.* MR. HOBBAH

64. International Trade and Finance.—Theory of international exchange; free trade versus protection. Barriers to foreign trade; tariffs, bounties, embargoes, quotas, and exchange restrictions. Recent trade policies of the United States will be considered. Given in 1942-43 and alternate years. *Three hours a week.* MR. CHADBOURNE

68. Modern Economic Systems.—A survey of the philosophies and historical development of the economic institutions of National Socialist

Germany, Fascist Italy, and Communist Russia. Given in 1941-42 and alternate years. *Three hours a week.* MR. BURTT

71; 72. 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, MR. STUART

74. Labor and Government.—A study of federal and state labor legislation, with emphasis on labor relations acts, minimum wage and hour laws, workmen's compensation and social security laws. Given in 1942-43 and alternate years. *Three hours a week.* MR. BURTT

76. Public Utilities.—A study of those industries "affected with a public interest." Problems considered include valuation of the plant, cost of producing the service, pricing the service, the development of regulation, duties toward the public, organization and management. Given in 1941-42 and alternate years. *Three hours a week.* MR. HOBBAH

80. American Labor Movement.—A study and analysis of selected periods in the history of American unionism including a discussion of native working class philosophies. Comparisons will be made with the labor movements of European countries. Prerequisites, Es 1a; 2a, and Es 33. Given in 1941-42 and alternate years. *Three hours a week.* MR. BURTT

91. Development of Economic Thought.—A survey of the economic thinking of the Canonists, Mercantilists, and Physiocrats, and of a selected group of economists from the time of Adam Smith to the present day. The influence of the earlier ideas on contemporary economic thought, institutions, and problems is emphasized. Not offered in 1941-42. *Two hours a week.* MR. HOBBAH

92. Economic Theory.—A study of contemporary price and distribution theory as a tool in economic analysis. *Three hours a week.* MR. HOBBAH

95. Seminar.—An examination and analysis of the principles of ethics in the field of business enterprise. Required of senior majors. *Two hours a week.* MR. LEVINSON

96. Seminar.—A comprehensive study and survey of the field of economics. This survey will aid in the preparation for oral examinations. Required of senior majors. *Two hours a week.* THE DEPARTMENTAL STAFF

97. 98. Problems in Economics.—For the advanced student capable of working by himself on some problem in the field of economics under

individual guidance. Prerequisite, twelve hours of economics and permission of the staff. *Hours arranged.* THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Six credit hours.*

Division of Business Administration

9; 10. Accounting.—The study and practice of the principles of accounting used in business. Since the course 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, MR. STUART

16. Business Law.—A study of the basic legal principles of 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, MR. CHADBOURNE

51. Corporation Finance.—The position of the modern business corporation from the financial point of view. Corporate securities, intercorporate relations, underwriting, financial plans, management and control are a few of the basic problems considered. *Three hours a week.*

MR. KIRSHEN

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.—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, Es 1a; 2a, Ba 51 and 53. Given in 1941-42 and alternate years. *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. Seniors only. *Three hours a week.* MR. KIRSHEN

59. Business Management and Policy.—An analysis of the *functions* of management; the formulation and execution of business policy. Seniors only. *Three hours a week.* MR. HOBBAH

60. Personnel Management.—A course on the selection, training, and management of personnel in private and public business. Designed for the student interested in administration, office management, or personnel work in education, business, engineering, public service, and other fields. Seniors only. *Three hours a week.* MR. DOW

78. Economic Mobilization and Government.—An examination and analysis of industrial mobilization in a war economy. Priorities, price policies, labor mobilization and war financing are among the problems considered. This course may be taken as a part of the major curriculum in Economics. Prerequisite, Es 1a; 2a (or My 1; 2; 3; 4) and six additional hours of courses in Economics or Business Administration. Given in 1941-42 and alternate years. *Three hours a week.* MR. KIRSHEN

95. Seminar.—An examination and analysis of the principles of ethics in the field of business enterprise. Required of senior majors. *Two hours a week.* MR. LEVINSON

96. Seminar.—A comprehensive study and survey of the field of Business Administration. This survey will aid in the preparation of oral examinations. Required of senior majors. *Two hours a week.*
THE DEPARTMENTAL STAFF

97. 98. Problems in Business Administration.—For the advanced student capable of working by himself on some problem in the field of business administration under individual guidance. Prerequisite, twelve hours of business administration and permission of the staff. *Hours arranged.*
THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Six credit hours.*

Division of Sociology

The sociology curriculum focuses the student's attention upon social relationships as phenomena capable of objective analysis. This is achieved through a study of (1) structure and function of society, as observed in social groups, institutions, codes, communities, and strata; (2) the dynamics of social change, as found in invention, cultural diffusion, and population trends; and (3) social disorganization, as reflected in dependency, crime, and community breakdown.

Sociology courses serve as useful background for students planning to enter (1) public social service work, as in state, county, or city welfare department and city managership; (2) private social work, as in family

welfare and child-care agencies; (3) probation and crime prevention; (4) public-health nursing and sanitary engineering; (5) youth-serving groups; (6) social research; and (7) social science teaching. A specimen curriculum in preprofessional preparation for social work appears on page 172 of this catalog.

Students majoring in sociology are required to take Sy 1; 2, and a minimum of eighteen hours including the Sociology Seminar, Sy 95, 96, but excluding Sy 24 and Sy 41 (42).

1; 2. Principles of Sociology.—An introductory course furnishing basic data and points of view concerning the structure and functioning of human societies. Communities, groups, races, codes, institutions, and social processes are considered. Prerequisite for other courses unless otherwise specified. *Three hours a week.*

MR. LAMSON, MISS WILSON, MR. WHITNEY, MR. MARCY

20. The Field of Social Work.—An examination of the theory and practice of social work, public and private; its history and development; its basic philosophies; its chief types: psychiatric, medical, family case, and group work; its objective and methods; its present trends. Social work as a profession is discussed in relation to courts, clinics, schools, hospitals, and settlements. Visiting lecturers and field trips. Prerequisite, Sy 1; 2 or permission of instructor. Offered in 1942-43 and alternate years. *Three hours a week.*

MR. WHITNEY

24. Rural Sociology.—A general course in the study of rural life. Subjects to be considered are standards of living and welfare of rural people; rural population; farm tenancy; the town and village; rural organizations and rural leadership; and the probable sociological effect of the adjustment of agricultural production, soil conservation, credit agencies and other governmental measures on rural life. This course is offered as Fm 24 in the Department of Agricultural Economics and Farm Management. *Three hours a week.*

MR. MARCY

41. (42). Marriage and the Family.—A course designed (1) to reveal the basic nature of these social institutions; (2) to show the specific trends which they are undergoing; and (3) to prepare for intelligent participation in family life. Courtship, mate selection, marriage preparation, husband-wife and parent-child relationships are studied. Juniors and seniors only. *Three hours a week.*

MR. LAMSON

52. Child Welfare.—An examination of the problems of the dependent and neglected child, the illlegitimate child, the child offender, and the child in need of special care. Methods of care and agencies of treatment, public

and private, are discussed. The general problem of juvenile delinquency is reviewed. Visiting lecturers and field trips. Prerequisite, Sy 20 or permission of the instructor. Offered in 1941-42 and alternate years. *Three hours a week.* MR. WHITNEY

57. Group Work Leadership.—The study of the principles and methods of group work with reference to clubs and classes in character building agencies, settlements, schools and camps, and the principles of leadership of such voluntary groupings. Methods of program planning, the valuation of activities frequently found on group programs, and the interaction of group and individual are considered. Prerequisites, General Psychology and Sy 1; 2. *Three hours a week.* MISS WILSON

61. Social Pathology.—A survey of typical varieties of social maladjustment including desertion, divorce, illegitimacy, prostitution, poverty and dependency, unemployment, occupational accidents and disease, old age, mental disease and defect, suicide, and community disorganization. Field trips. Prerequisite, Sy 1; 2 or permission of the instructor. *Three hours a week.* MR. LAMSON

62. 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 to jails and prisons. Prerequisite, Sociology 1; 2 or permission of instructor. *Three hours a week.* MR. LAMSON

65. Urban Sociology.—A study of city life and some of its problems. The role of the city and urbanization in civilization; the effects of urban environment upon social institutions and codes; rural-urban contrasts in health, crime, religion, education, personal and social disorganization; ecological areas within the metropolitan region; housing; recreation; and mobility. Field trips. Prerequisite, Sociology 1, 2 or permission of instructor. Given in 1941-42 and alternate years. *Three hours a week.* MR. WHITNEY

83. Population.—A study of the factors involved in the composition, growth, and control of population. Birth and death rates, natural selection, quality of peoples, eugenics, theories of population, migration, and population pressure are considered. Prerequisite, Sy 1; 2 or permission of the instructor. Offered in 1942-43 and alternate years. *Three hours a week.* MR. WHITNEY

84. Race Relations.—A general survey of race problems, including the status of minorities, racial intermarriage, conflict and accommodation

between racial and ethnic groups, race in relation to nationalism, race prejudice, and assimilation. Prerequisite, Sy 1; 2 or permission of the instructor. Offered in 1942-43 and alternate years. *Three hours a week.* MR. LAMSON

86. Social Change.—Analysis of the basic processes underlying planned and unplanned changes that occur in human society. Theories of geographic, racial, and cultural determinism; ideas of progress and the sociology of invention are considered with special reference to changes in the United States. Prerequisite, Sy 1; 2 or permission of the instructor. Offered in 1941-42 and alternate years. *Two hours a week.* MR. LAMSON

95. 96. Sociology Seminar.—Required of senior majors. *Two hours a week.* THE DEPARTMENTAL STAFF

97. 98. Problems in Sociology.—For the advanced student capable of working by himself on some problem in the field of sociology under individual guidance. Prerequisite, twelve hours of sociology and permission of the staff. *Hours arranged.* THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Six credit hours.*

ENGLISH LITERATURE AND COMPOSITION

PROFESSORS ELLIS, TURNER, SMALL, AND ASHBY; ASSOCIATE PROFESSORS SCAMMAN AND FLEWELLING; ASSISTANT PROFESSSORS CROSBY, COGGESHALL, AND WHITNEY; MR. REYNOLDS; MRS. CRANDON; DR. WENCE; DR. SANDERLIN; MR. HAWTHORNE; MISS BAXTER; MISS OLIVER; MR. THURSTON

Major subjects may be selected in English literature, the literature and history of America, journalism, or creative writing, comparative literature, or dramatic literature. A specimen curriculum in American literature and history may be found on page 171; others may be had upon request.

The major field may likewise combine courses in English and in some other subject, provided that unity exists between them. Obvious examples are English with history, or philosophy, or music, or speech, or sociology, or any foreign literature; and journalism with history or government.

Students preparing for library work or employment with publishing houses should become acquainted with modern foreign languages and European and contemporary literature. English majors planning to enter the civil service, social service work, salesmanship, advertising, or professional schools in theology or law should build up a strong supporting minor in the

social sciences: economics, government, history, sociology, psychology. For all students majoring in English, an acquaintance with English and American history, philosophy, public speaking, and elementary psychology is recommended. English literature majors are required to take Hy 17, 18 or pass an examination in English History, set by the English Department.

Students intending to pursue major programs in English should have completed the prerequisite courses Eh 3, 4 and Eh 7 or 8, or their equivalent, before the close of their sophomore year. A grade of C or better is expected in Eh 3, 4 and in eighteen hours of the major curriculum.

The departmental comprehensive examinations comprise a written examination in the history of English literature, late in the junior year; a critical report on the study of some selected author, early in the senior year; a written examination covering the student's advanced work in his major field, and a comprehensive oral examination, in his final semester. The senior oral examination will be a test, not only of the student's knowledge of his special field, but also of his general culture. A passing grade in the written examinations is required for graduation.

Students planning to teach English should take Eh 84 and Eh 67 or 67b. The latter may be counted toward the Professional Secondary Certificate requirements. Major students 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 (or 61 or 62); 71, 72 or 43 (44); and 84. Eh 67 is also strongly recommended.

Courses in Composition and Rhetoric

(See also courses in Journalism, separately listed.)

1. Freshman Composition.—A course in expository and narrative writing. Stress is placed upon correctness, clarity, and ease of expression and upon the organization of material. Frequent themes. English 1 and 2 are required of all freshmen not admitted to Eh 11, 12, and are prerequisite for all other English courses. *Three hours a week.*

NOTE: Freshmen who are particularly deficient in the fundamentals of grammar, sentence structure, and spelling are expected to attend special tutoring groups in addition to the regular work of the course.

MR. WENCE (Chairman) and MEMBERS OF THE DEPARTMENT

2. Freshman Composition.—Exposition, stressing letter-writing, themes based on library reading, and literary criticism. Several works of literature are read. *Three hours a week.*

MR. WENCE (Chairman) and MEMBERS OF THE DEPARTMENT

5 (6). Technical Composition.—A study of the forms of writing of greatest professional usefulness to engineers, agriculturalists, and foresters—in particular, the forms of business correspondence, the construction of reports, and preparation of technical papers. Prerequisite, junior standing. *Not open to students in the College of Arts and Sciences. Two hours a week,* fall or spring semester.

MR. SCAMMAN (Chairman), MR. SMALL, MR. REYNOLDS, MR. THURSTON

7. 8. Second-Year Composition.—In the fall semester the writing of essays, with a study of the informal essay and articles; in the spring, descriptive and narrative writing, with a study of the short story. Recommended for students who desire further cultivation in writing than that offered in Eh 1, 2. At least one semester should be taken in the sophomore year by those who expect to select a major in English literature. *Three hours a week.* MR. WHITNEY (Chairman), MRS. CRANDON

8b. Writing the Term Paper.—The finding, assembling, and arrangement of source material, and the organization and writing of reports and research papers. *Three hours a week.* MR. COGGESHALL

19. Expository Writing (Home Economics).—Study and practice in the forms of writing chiefly used in Home Economics teaching, extension, club work, diatetics, and merchandising. Business correspondence, book reviews, and preparation of reports, pamphlets, and newspaper and magazine material in this field. Open to juniors and seniors in Home Economics. *Two hours a week.* MISS BAXTER

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 approved for graduate credit except by special permission from the Graduate Faculty. Prerequisite, completion of English 7 or 8 or an equivalent, with honor grade. *Three hours a week.*

77a. The Short Story. MR. WHITNEY
78b. The Familiar Essay. MR. WHITNEY
77 (78)c. Verse Writing.—Not given in 1940-41. MR. ELLIS
78d. The One-Act Play. MR. WHITNEY

Courses in Literature

3. 4. History of English Literature.—A study of English literature from the beginning to 1900, tracing its historical development and acquainting the student with the chief writers and their work. Readings, recitations, and lectures. English 3, 4, or 11, 12 is a general prerequisite for advanced courses in English literature. *Three hours a week.*

MR. REYNOLDS (Chairman), MR. ASHBY, MISS CROSBY, MR. SANDERLIN

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, and an understanding of contemporary thought. *Not open to students in Arts and Sciences except those in the Nursing Curriculum. Two hours a week,* fall or spring semester.

MR. SCAMMAN (Chairman), MR. REYNOLDS, MR. HAWTHORNE, MR. SANDERLIN

11 (12). Freshman Literature and Composition.—A study of representative types of literature, with extensive theme writing. Open to superior students selected by the Department. *Three hours a week.*

MISS CROSBY, MR. WHITNEY

35. 36. Recent and Contemporary Drama.—A study of outstanding dramatists and plays, mainly of the twentieth century, in Great Britain and the United States. Continental and British drama is taken up in the fall semester and American in the spring. *Two hours a week.*

MRS. CRANDON

38. Browning.—Primarily a reading course, with much class discussion. An important aim is the cultivation of an appreciation of poetry in the student. Given in 1940-41. *Two hours a week.* MR. TURNER

41 (42). Recent Writers of Maine.—A study of twentieth-century writers whose works reflect the Maine scene or character. Among the poets and prose writers included are E. A. Robinson, Edna St. Vincent Millay, Robert P. T. Coffin, Mary Ellen Chase, Kenneth Roberts, Gladys Hasty Carroll, Rachel Field, and Owen Davis. Given in the spring semester, 1941. *Two hours a week.* MR. HAWTHORNE

43 (44). Chief Writers of America.—A study of the principal writers of the United States in the nineteenth century, with some attention to Edwards and Franklin in the eighteenth. *Three hours a week,* fall or spring semester. MR. FLEWELLING

45. 46. Contemporary Literature.—A study of recent tendencies and production in poetry, drama, and the novel. The fall semester is devoted to contemporary British literature, the spring to American. *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 in any college, whose grades in English have been satisfactory and who have had 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.*

54. 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. Poetry of the Romantic Movement.—A study of the poetry of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries, against the background of their time. Given in 1941-42 and alternate years. *Three hours a week.* MR. TURNER

57. 58. Shakespeare.—A careful study of several of Shakespeare's most important plays and the reading of others, preceded by a brief consideration of the earlier English drama. Attention is given to Elizabethan stage conditions and the dramatic work of Shakespeare's contemporaries. *Three hours a week.* MR. ELLIS, MR. SMALL

61. 62. History of the English Drama.—In the first half, the development of the drama in England from the miracle plays through the Elizabethan period. In the second half, subsequent tendencies from the Restoration period to the twentieth century. Given in 1941-42 and alternate years. *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 various types of literature that flourished in this period. Given in 1941-42 and alternate years. *Three hours a week.* MR. ASHBY

69 (70). The American Novel.—The chief American novelists of the nineteenth century and their work. *Three hours a week.* Given in the fall semester, 1940-41. MR. FLEWELLING

71. 72. American Literature.—A study of the development and history of American literature, including the political, social, and religious ideas which it reflects. *Three hours a week.* MR. ELLIS

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 1942-43 and alternate years. *Three hours a week.* MR. TURNER

101. 102. Graduate Seminar.—Subject and credit vary. Recent topics have been Middle English Literature, Elizabethan Non-dramatic Literature, Milton and His Times, The New England Renaissance, Puritanism in American Literature. Not given in 1940-41.

Courses in Journalism

23; 24. News Writing and Editing.—A study of news as defined by the practice of the metropolitan daily. Class discussions and exercises. The mechanics and theory of copy-desk editing. Laws affecting the press: libel and contempt of court. Standards and ethics. Open to sophomores and upperclassmen. Prerequisite, English 1, 2; History 3, 4 or 5, 6. *Three hours a week.* MR. COGGESHALL

25 (26). The Newspaper in the Twentieth Century.—The history of the American press. The newspaper as a social institution and as an organ of political opinion. Prerequisites: a minimum grade of C in English 23, 24; History 5, 6; and Government 31, 32, or consent of the instructor. *Three hours a week.* MR. COGGESHALL

28. Departmental or Feature Writing.—Practice in various forms of specialized writing for daily and weekly newspapers, feature sections, etc. Assignments will vary according to the objectives of individual students. Prerequisites: a minimum grade of C in English 23, 24; 25, or consent of the instructor. Given in 1941-42 and alternate years. *Two hours a week.* MR. COGGESHALL

30. The Country Newspaper.—A study of the administrative, mechanical, and editorial problems of the weekly journal. The course will be associated as far as possible with the weekly newspapers of the State. Prerequisite: a minimum grade of C in English 23, 24, or consent of the instructor. Not given in 1940-41. *Three hours a week.* MR. COGGESHALL

79 (80). The Newspaper as a Factor in International Relations.—News as a world commodity, censorship and propaganda, the work of the foreign correspondent; the press and public opinion as a factor in precipitating war; the problem of international negotiation and the demand for pub-

licity. Prerequisites: a minimum grade of C in English 23, 24; History 5, 6; 54; 67, 68; or consent of the instructor. Given in the spring semester, 1941. *Three hours a week.* MR. COGGESHALL

Courses in Linguistics

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. Not given in 1940-41. *Three hours a week.* MR. SMALL

67. History of the English Language.—English words and their background; a study of the changes in sounds, forms, and meanings that have produced our contemporary English. Recommended for students preparing to teach English or to do graduate work in the subject. Given in 1942-43. *Two hours a week.* MR. SMALL

67a. The American Language.—The economic and social changes that have made American English a colorful and vigorous language; new words from colonial times to the present; Americanisms and Anglicisms; the American dialects and the question of a speech standard. Given in 1941-42. *Two hours a week.*

Courses in Comparative Literature

Cp 39; 40. The Literature of Social Change.—Notable works which have reflected or brought about changes in the social or political order, considered in their bearing upon the present-day scene. The great Utopias and social satires, nineteenth-century humanitarian novels, the works of Karl Marx and Hitler, and such contemporary social critics as Shaw, Galsworthy, Sinclair, Dreiser, Caldwell, and Steinbeck. *Three hours a week.* MR. WENCE

Cp 73; 74. Literary Criticism.—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. Given in 1942-43. *Three hours a week.* MR. ASHBY

Cp 75. 76. European Literature.—A survey of European literature from Homer to the present, showing the relations among the literatures of different epochs and countries . The first semester comes down to the Renaissance; the second, to the present. Course 76 may not be taken separately except by permission. Foreign language majors may substitute other read-

ings for works treated in their major courses. No knowledge of foreign languages is required. *Three hours a week.* MR. TURNER
(See also Fr 51, 52; Gk 51; Gm 59 (60); Sp 57, 58.)

Courses in the Teaching of English

84. Teaching of English in the High School.—A practical survey of materials in common use in high-school English classes, together with an examination of current methods and theories. Review of mechanics, practice in theme-correction, and remedial reading will be stressed. *Three hours a week.* MRS. CRANDON

Ed 29a. Supervised Student Teaching of English.—(See School of Education.) For approved senior tutors. *Two hours a week,* first or second half of fall semester. *One credit hour.* MISS OLIVER

GEOLOGY AND GEOGRAPHY

These and other courses in Geology are described under the Department of Civil Engineering in the College of Technology.

Ce 12. Economic Geography.—Deals with the principles of geography, especially applied to the common economic products, treating their distribution, characteristics, and uses. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

Ce 13. Physical Geology.—Introduction to general dynamical geology; it covers the materials, agents, and processes of geology. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

Ce 14. Introduction to Regional Geography.—A survey course designed to give a general understanding of the natural and cultural aspects of the major geographic regions of the world. Given in 1940-41 and alternate years. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

Ce 17. Economic Geology.—Introduction to ore deposits; their characteristics, distribution, production, and uses of both metals and non-metals. Classroom, *two hours a week. Two credit hours.* MR. TREFETHEN

Ce 18. Historical Geology.—A review of the earth's history; its past land distribution, mountain revolutions, rock formations, climates, and living forms. Classroom, *three hours a week. Three credit hours.*
MR. TREFETHEN

Ce 19. Advanced General Geology.—A study of the common rocks and minerals and geologic processes. Designed for students who are considering further work in geology and students who expect to teach science in the high schools. Prerequisite, Ce 13 or Ce 16. Classroom, *two hours a week;* laboratory, *two hours a week. Three credit hours.* MR. TREFETHEN

Ce 79. Structural Geology.—Principles and characteristics of earth structures. Prerequisite, Course 25. Given in 1941-42 and alternate years. Classroom, *two hours a week. Two credit hours.* MR. TREFETHEN

GERMAN

PROFESSOR DRUMMOND; ASSOCIATE PROFESSOR KLEIN;
ASSISTANT PROFESSOR MILES

The Department of German offers the student an opportunity to become acquainted with the great literature of a foreign nation.

In addition to its cultural worth, German has a great practical value for students who intend to do research work in literature, history, economics, philosophy, and especially in the natural sciences, since a great deal of scientific literature is written in German.

Special courses, too, are offered for those students who desire to obtain a good writing and speaking knowledge of German.

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 in the College of Arts and Sciences. *Four hours a week.*
MR. DRUMMOND, 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. 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

13. 14. Elementary German Composition and Conversation.—For students who have had Course 1, 2 or the equivalent. *Two hours a week.*
MR. MILES

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

19-20. German for Chemists.—A beginning course in German for students in the colleges of Agriculture and Technology, and for students in the College of Arts and Sciences who intend to major in Chemistry. The reading matter is chiefly in chemical German with incidental stress upon grammar. *Three hours a week.* MR. KLEIN, MR. MILES

21; 22. German for Chemists.—Continuation of Course 19, 20, which is prerequisite. Should be taken by students who take Course 19, 20. *Three hours a week.* MR. KLEIN, MR. MILES

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. *Three 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. *Three hours a week*, fall or spring semester. MR. DRUMMOND

The department is also prepared to give, when there is sufficient 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.***

HISTORY AND GOVERNMENT

PROFESSORS DOW AND WHITMORE; ASSOCIATE PROFESSOR WILSON; ASSISTANT PROFESSOR MORROW; MR. PELLETIER; MR. HURD

Cooperating members of the Department:
MR. HUDDILSTON, of the Department of Classics
MR. PETERSON, Head of the Department of Romance Languages

Major Students. Since students concentrate in History and Government in preparation for widely divergent occupations, the major requirements of the Department have been given considerable flexibility. For theology, emphasis should be placed on ancient and medieval history with supporting courses in philosophy and English. Students looking forward to library work or to connections with publishing companies will find that, in addition to medieval and modern history, courses in foreign languages and literature are valuable. Majors in History or Government who plan to go on with the subject in graduate school should have a knowledge of French and German.

Students majoring in History or Government are expected to complete at least eighteen hours of work in approved courses. A major in History or Government may be combined with any other of the social sciences: Economics, Philosophy, Psychology, and Sociology.

The compehensive examination required of majors in the department is divided into two parts: (1) a written examination at the end of the junior year over the basic work in the major field, and (2) an oral examination at the end of the senior year over the major work of the last two years.

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 1; 2 is advised for this purpose. Subjects commonly combined with History for teaching purposes are English, French, Latin, science, or mathematics.

Division of 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.

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 Greek thought and Roman rule in the midst of which Christianity sprang up. Readings, lectures, and notebook. Open to all students. *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. *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

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. *Two hours a week.* MR. PELLETIER

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. *Two hours a wek.* MR. WHITMORE

53. Europe from 1815 to 1870.—This course will be concerned chiefly with the origins and the development of economic and political liberalism, the growth of modern nationalism, and the achievement of political democracy in Europe. The effect of these developments upon the literature and thought of the nineteenth century will be studied briefly. Prerequisite, Course 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 6. *Three hours a week.* MISS WILSON

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 agriculture in the machine age. Prerequisite, six hours of history, government, or economics. *Three hours a week.* MR. MORROW

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. Prerequisite, six hours of history. Given in 1941-42 and alternate years. *Two hours a week.* MR. PETERSON

67. 68. American Diplomatic History.—An account of the relations of the United States with 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, arbitra-

tion, limitation of armaments, and the League of Nations. Prerequisite, Course 3. 4 or Gt. 1; 2. *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. Given in 1941-42 and alternate years. *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 Mohammendan civilization; the scientific renaissance; the rise of universities; art and architecture; and humanism and the Italian renaissance. Prerequisite, Course 5. Not given in 1941-42. *Three hours a week.* MISS WILSON

101. 102. Seminar.

125. Graduate Thesis.—*Six credit hours.*

Division of 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 government 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.

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.

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. (See specimen curriculum on page 168.)
Foreign Service
Public Administration

1; 2. Introduction to Government.—A comparative study of politics and administration in the United States and the leading European nations. Emphasis will be on the major problems of life, liberty, and property under different theories of government. *Three hours a week.* MR. DOW, MR. HURD

7. 8. Maine Government.—Designed to show the practical operation and current problems of state and local government as these affect the citizen of Maine. One lecture each week by an official, followed by a round table discussion. No prerequisite. *Two hours a week. One credit hour.*
MR. DOW AND GUEST LECTURERS

7a. 8a. Maine Government.—For prospective teachers and all others wishing a more complete picture of Maine government. Includes Course 8, plus an additional weekly lecture or discussion, and assigned readings. Permission of the department head required. *Three hours a week. Two credit hours.*

8a. 8b. Maine Government.—The same as Course 8a, with the added requirement of a term paper written on a problem of Maine government. Permission of the department head required. *Three hours a week.*

31 (32). State Government.—A course dealing with state, county, and town governments. 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. *Three hours a week.* MR. DOW

33 (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. *Three hours a week.* MR. DOW

51. 52. 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; financial administration. Field trips to governmental agencies. Prerequisite, Course 1, 2. *Three hours a week.* MR. PELLETIER

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. HURD

83; 84. The American Constitution.—The origin and development of our constitution, from 1787 to the present. Lives of famous judges; court

organization and procedure; regulation of commerce; protection of life, liberty, and property—these are typical of the subjects studied. Permission of the instructor required. Given in 1941-42 and alternate years. *Three hours a week.* MR. DOW

99. Public Opinion.—A study of the formation and operation of the public will in democracies. The following topics are illustrative: public opinion in campaigns; radio, newspapers, and pressure groups; straw votes; civil liberties; censorship; fifth columnists. Open to juniors and seniors with the consent of the instructor. Given in 1941-42 and alternate years. *Three hours a week.* MR. DOW

100. Political Theory.—A survey of the classics of political theory. The great ancient and medieval theoretical works are treated briefly, but primary emphasis is placed on the theories of the nineteenth and twentieth centuries. The problem of reconciling political authority with individual liberties receives special attention. Open to juniors and seniors with the consent of the instructor. Given in 1941-42 and alternate years. *Three hours a week.* MR. PELLETIER

101. 102. Seminar.

125. Graduate Thesis.—*Six credit hours.*

See also ***Personnel Management,*** under the department of Economics and Sociology.

HONORS COURSES

Freshman Year

Gh 46. Freshman Honors.—The purpose of this course is to assist the freshman in discovering his special interests and aptitudes. The tutor will seek to further this purpose by informal questioning and discussion and by the assignment of appropriate reading. Given only in the spring semester. *Three credit hours.*

Sophomore Year

Gh 47. 48. Sophomore Honors.—This course is designed to make the student acquainted with some of the great books of the world—that is to say, *readable* books of established reputation, particularly those which have figured prominently in the history of occidental culture. These may be of all types, and be concerned with a great variety of subjects, scientific as well as literary.

The reading will be confined in the main to a prescribed list, but this list will be extensive enough to allow the student abundant freedom of choice and sufficient opportunity to indulge his special interests. *Three credit hours.*

Junior Year

Gh 51. 52. Junior Honors.—This course may be used in one of three ways: (1) for the pursuit of some subject outside of the student's major field, (2) for a continuation of the Honors reading program of the freshman and sophomore years, or (3) for the pursuit of some subject in the student's major field in anticipation of Senior Honors. *Three credit hours.*

Senior Year

Gh 53-54. Senior Honors.—This course is the culmination of the Honors program. Coming at the close of this program, it is expected to afford evidence of the extent to which the student has profited by Honors work, and to offer him an opportunity to manifest the qualities that this work is intended to develop. It requires him to make an intensive study of some special subject within his major field and to embody the results of this study in a substantial thesis. Both semesters are needed for this undertaking. *Three credit hours.*

MATHEMATICS

Professor Willard; Associate Professors Bryan, Jordan, and Kimball; Assistant Professors Lucas, Stewart, and Lamoreau; Mr. Jones; Mrs. Ela; Mrs. Merrill

The function of the Department of Mathematics is twofold. 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 prepares such students to undertake graduate study in mathematics or to teach the subject in secondary schools. 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.

More specifically, types of work which majors in the Department of Mathematics and Astronomy may undertake are as follows: (1) Mathematics

as a foundation for graduate work in mathematics; (2) Mathematics as a preparation for teaching secondary-school mathematics; (3) Statistics; (4) Applied mathematics, including mathematical astronomy.

On the other hand it acts as a service department for the colleges of Technology and Agriculture. In this capacity it furnishes the students of those colleges with sufficient training in mathematics to enable them to carry forward successfully their technical studies.

Freshman students who are well qualified both as to ability and training will be placed in advanced sections. Such students will be selected by the Department and will take the freshman Courses 11 and 12, followed, in the sophomore year, by Courses 7a and 8a.

Students whose major subject is mathematics are required to take Courses 1, 3, 6, 7, 8, 15, 16 or Courses 11, 12, 7a, 8a, 15, 16. Not less than twelve hours are to be selected from courses in mathematics, astronomy, and mechanics numbered 50 or above, and Astronomy 15 and 16. At least six of these hours must be chosen from mathematics courses numbered 51, 52, 53, 54, 55, 56, 60. Astronomy 11 may be taken as a mathematics elective. Students whose major subject is mathematics and who intend to teach in secondary schools are advised to elect Courses 17, 18 or 19, 20; 51, 61, 63, 64 as well as several courses in associated fields.

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.*

THE STAFF

2. Solid Geometry.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. Open to all freshmen who have not offered solid geometry for admission. *Three hours a week.*

MRS. ELA

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. WILLARD AND MEMBERS OF THE STAFF

5. General Mathematics.—The course consists of topics selected to illustrate the use of mathematics in everyday activities, the nature of mathematical reasoning, and mathematical contributions to culture. Among the topics included are taxes, insurance, variation, graphs, statistics, approximate measurements, investments, philosophy of mathematics. The course may be taken toward satisfying the science requirement but is not a foundation course for later work in mathematics. *Three hours a week.*

MR. STEWART

6. Analytic Geometry and Calculus.—The point, line, circle, and conic sections. Differentiation of algebraic and elementary transcendental functions with applications to maxima and minima and rate problems. Open to students who have had Courses 1 and 3. *Four hours a week.*

MR. WILLARD AND MEMBERS OF THE STAFF

7. Differential Calculus.—Differentiation of algebraic functions and of the elementary forms of 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 AND MEMBERS OF THE STAFF

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 AND MEMBERS OF THE STAFF

9; 10. Algebra, Trigonometry, and Their Applications.—A course designed to meet the needs of freshman students in Forestry. *Two hours a week.* MR. STEWART, MR. LAMOREAU, MR. JONES, MRS. ELA

11; 12. Freshman Mathematics.—Course 11 consists of an intensive review of algebra and trigonometry followed by a brief course in analytic geometry. Course 12 covers the material of Course 7 (Differential Calculus) with the exception of series and expansion of functions. Open to students selected by the Department. *Four hours a week.*

MR. LUCAS, MR. KIMBALL, MR. LAMOREAU, MR. JONES

7a; 8a. Calculus.—These courses are designed for students who have had Courses 11 and 12. At least one half of the spring semester will be devoted to differential equations and their applications to engineering problems. *Four hours a week.* MR. KIMBALL, MR. LAMOREAU

13 Spherical Trigonometry.—An elementary course with problems and applications to spherical astronomy. Not given in 1940-41. *Two hours a week.* MR. KIMBALL

15. Analytic Geometry.—A continuation of the analytic geometry of Course 6, including an introduction to the Theory of Algebraic Plane Curves and certain topics in Solid Analytic Geometry. Open to students who have taken Courses 1, 3, and 6. *Three hours a week.* THE STAFF

16. Advanced Algebra.—A brief study of topics in college algebra not covered in Course 3, including a more detailed study of determinants and of the Theory of Equations. Open to students who have taken Courses 1 and 3, and with the consent of the instructor to freshmen with especially good high-school preparation. *Three hours a week.* MR. KIMBALL

17; 18. Mathematical Theory of Investment.—A study of interest, discount, annuities, 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 life insurance. Throughout the course numerous problems are solved to illustrate the theory and to fix the principles involved. *Two hours a week.* MR. STEWART

19; 20. Statistics.—The various topics in statistics will be introduced by illustrative material from the fields of economics, business and public administration, and applied science. The course is designed to enable the general student critically to evaluate and understand the preparation, presentation, and interpretation of statistical material. Laboratory. *Three hours a week.* MR. BRYAN

23; 24. Introduction to Mathematical Analysis.—A general introductory course in mathematics which is designed for freshmen in the College of Arts and Sciences who wish only one year of mathematics. This course will also be satisfactory as a mathematics elective for students who may later major in Business Administration or in Government. The training in this course will be of direct benefit to those students who may wish later to take work in statistics. *Three hours a week.* MR. BRYAN

51. College Geometry.—A course in modern Euclidean geometry. The nine-point circle, harmonic section, poles and polars are among the topics considered. Emphasis is placed on the solution of original exercises. Given in 1941-42 and alternate years. Prerequisites 1, 3, and 6. *Three hours a week.* MR. KIMBALL

52. Projective Geometry.—An introduction to projective geometry, from the analytic point of view. Homogeneous coordinates, duality, collineations and conics are among the topics considered. Given in 1941-42 and alternate years. Prerequisites 1, 3 and 6. *Three hours a week.* MR. KIMBALL

53; 54. Advanced Calculus.—Some of the topics considered are real numbers, limits and continuity, infinite series including power series and Fourier Series, Gamma and Beta functions, partial differentiation and its applications, implicit functions, double and triple integration, and line integrals. Open to juniors, seniors, and graduate students who have had adequate preparation. Given in 1940-41 and alternate years. *Three hours a week.* MR. WILLARD, MR. KIMBALL

55. 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. LAMOREAU

56. Vector Analysis.—A treatment of vector algebra and vector calculus required in theoretical work in Physics and Engineering. *Three hours a week.* Not given in 1940-41. MR. LUCAS

57; 58. Engineering Mathematics.—A course designed primarily for juniors in Electrical Engineering and Engineering Physics. Some of the topics considered are Complex numbers and Hyperbolic Functions, Vector Algebra, Fourier Series, Gamma and Bessel Functions, Theory of Probability; also, as time permits, the following topics from Function Theory: Line Integrals, Cauchy's Integral Theorem, Theory of Residues. *Three hours a week.* MR. LUCAS

60. Theory of Functions of a Complex Variable.—An elementary course in the treatment of analytic functions. The course includes conformal representation; a consideration of infinite series, both single and double; and infinite products. Open to juniors, seniors, and graduate students who have had adequate preparation. *Three hours a week.* MR. WILLARD

61. History of Mathematics.—A chronological survey of the important developments in mathematics from the beginning of the subject to the present time. Lectures, reference studies, and recitations. Prerequisites, Courses 1, 3, 6, 7. Courses 2, 8, 26 and a reading knowledge of French and German are desirable. Open to juniors, seniors, and graduate students. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1941-42 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 conferences, students who so desire may make a study of the teaching of college mathematics. Prerequisites, Courses 1, 3, 6, 7. Open to juniors, seniors, and graduate students. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1941-42 and alternate years. *Three hours a week.* MR. BRYAN

73; 74. Advanced Statistics.—A more advanced development of the theory of statistics than is possible in Courses 19; 20: investigations by individuals and by groups. For students who are not mathematics majors, the emphasis is placed on applications in the respective fields in which such students are interested. This course offers students the opportunity to prepare for the civil service examination of Junior Statistician. Open to juniors, seniors, and graduate students. Prerequisite: Course 19; 20. Given in 1940-41 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. Synthetic Projective Geometry; 68. Theory of Numbers; 71; 72. Modern Higher Algebra; 102. Elliptic Functions; 109. Celestial Mechanics; 110. Hydrodynamics; 115. Theory of Functions of Real Variables; 116. Fourier's Series; 17. Theory of Substitution Groups and of Algebraic Fields; 118. Theory of Transformation Groups (Lie Theory); 119; 120. Differential Geometry.***

MODERN SOCIETY AND WESTERN CIVILIZATION

There are four primary objectives in the two-year sequences of Modern Society and Western Civilization: to understand contemporary society; to understand the continuity and value of the historical process; to relate the present scene to its historical background; and to develop a method of critical analysis. These courses are designed to furnish an orientation in the social sciences during the first two years of the college program.

Modern Society

PROFESSOR KIRSHEN (Chairman); MR. PELLETIER; MR. WHITNEY; MR. BURTT; MR. HURD

1; 2. Modern Society.—The first year the following problems will be considered; nationalism and internationalism, prosperity and depression, the business system and the middle class, political organization and the politician, labor and labor organization. *Three hours a week.*

3; 4. Modern Society.—The second year continues with a further analysis and discussion of problems in our society, such as government and society, democracy and its rivals, the formation of public opinion and civil liberties, population and natural resources, price, credit and taxation policies, international organization for peace and war. *Three hours a week.*

Western Civilization

ASSISTANT PROFESSOR MORROW (Chairman); DR. STARR

1; 2. Western Civilization.—The first year of this two-year sequence traces the development of Western Civilization from Ancient Greece and its neighboring older civilizations through Rome and the Middle Ages

to the Renaissance. It emphasizes the relations between the literary, artistic, and philosophical achievements of the various ages and their underlying political and social origins. *Three hours a week.*

3; 4. Western Civilization.—During the second year the course deals in a similar fashion with the period from the Renaissance to the present day. The same general plan of study is observed with a view to correlating the subject matter of the course with the study of the modern scene. *Three hours a week.*

MUSIC

Professor Sprague; Mr. Cayting; Mr. Selwood; Mr. Shaw; Miss Strickland

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 performance, give the creative product its living realization.

Although the purpose of 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, the college recognizes its obligation to offer those who enter the University with some mastery of technique 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.* Mr. Sprague

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.* Mr. Sprague

7; 8. Advanced Harmony.—Supplementary to Course 5, 6 and a continuation of the more advanced problems of tone combination. Har-

monic analysis, including a brief survey of modernistic tendencies. Prerequisite, Course 5; 6. *Two hours a week.* MR. SPRAGUE

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. *Two hours a week.*
MR. SPRAGUE

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. *Two hours a week.* MR. SPRAGUE

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. *Two hours a week.* MR. SPRAGUE

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.* MR. SELWOOD, MISS STRICKLAND

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.*
MR. CAYTING

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.* MR. SPRAGUE

53; 54. Form and Analysis.—A study of the style, structure, and content of instrumental composition, as evidenced in typical works of the masters. The program consists of a progressive survey, culminating in the sonata and symphony. Prerequisite: a knowledge of harmony, counterpoint, and the fundamentals of instrumentation. *Two hours a week.*
MR. SPRAGUE

55; 56. Canon and Fugue.—Analysis of masterpieces in these forms, with particular concentration on the Canons of Klengel and the "Art of Fugue" of Bach. Composition projects in these polyphonic types. Prerequisite: a knowledge of harmony and counterpoint. *Two hours a week.*
MR. SPRAGUE

Band is listed under Military Science and Tactics, Course 11. 12.

MR. SHAW

Applied Courses

The college provides applied music instruction through an affiliation with the Northern Conservatory of Music in Bangor. 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 generally whatever number of hours is credited must be paralleled by at least an equal number of hours in music theory and aesthetics. The college provides, so far as possible, practice opportunity for students who desire to take applied courses without credit.

Violin, Piano, Organ, Voice.—Private lessons at periods to be arranged. One hour lesson weekly, $45.00 the semester. *Two credit hours.* One-half hour lesson weekly, $22.50 the semester. *One 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 credit hour* in each case.

To meet further demands, instruction in the various orchestral instruments can be provided on a similar basis.

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. Practice facilities are provided on the campus.

For the use of the University instruments, practice fees are charged as follows for a daily practice hour: piano, $2.50 a semester; organ, $5.00 a semester.

PHILOSOPHY

PROFESSOR LEVINSON

Philosophy is a resolute and rational attempt to make out the meaning of the world and of life. It raises those great human questions which beset every thinking mind: what is back of it all? How can we know and prove

what is really right, and good, and beautiful, and how are the claims of these ideals to be adjusted to the demands of ordinary life?

Such questions are not the property of any minority or special group. We have, each of us, a set of answers to these questions, a working philosophy of life. But unless our ideas are clear, consistent with themselves, and rationally grounded, we are at all times at the mercy of our own emotions and exposed to the constant danger of being misled by clever fallacies. In times of stress, such as the present era, a rational understanding which can hold up against the shock of conflicting dogmas is of vital importance.

The college study of philosophy does not promise final answer to all fundamental questions. It does, however, provide a more systematic and mature way of grappling with the major problems, and definitely supplies a more adequate perspective of the goals of contemporary thought and action.

While philosophy is ordinarily approached by way of a direct attack upon the fundamental problems [see Pl 1 (2)], or through the history of man's attempts to solve them [see Pl 3 (4)], an opportunity is offered to various classes of students to approach it from the standpoint of their work in other fields (see Pl 11, 12).

1 (2). Philosophy and Modern Life.—Discussion of some of the crucial questions of belief and conduct confronting Americans today. Typical problems to be dealt with: religion and science; evolution and morals; democracy and its rivals; social justice. Conversations, debates, readings. Primarily for sophomores. *Two hours a week.*

3; 4. Historical Introduction to Philosophy.—An approach to philosophy through a first-hand acquaintance with its literature. Reading and interpretation of selections from the philosophical classics of the western world, from Plato to William James. *Three hours a week.*

8. The Technique of Thinking.—Exercise in the logical analysis of argument and in the discrimination of "straight" from "crooked" thought. Illustrative material will be drawn from the history of the various sciences, natural and social, and from current press and periodical discussion of controversial themes. *Two hours a week.* Given in 1942-43 and alternate years.

10. Ethics.—A search for a basis of judgment useful in distinguishing right from wrong and good from bad, both in individual and in social problems. Special attention will be given to problems of contemporary society: professional and business ethics; the values of democracy; religion. *Three hours a week.* Given in 1941-42 and alternate years.

11. 12. Topics in Philosophy.—An opportunity to approach philosophy by way of the study of certain topics associated with the student's major field. Sections may be organized, according to demand, in social

philosophy, philosophy of science, philosophy of religion, philosophy of literature, and others. No work in philosophy is prerequisite, but the course is restricted to those upperclassmen whose needs in philosophy are not satisfied by any of the other courses offered by the Department. Tutorial conferences, assigned readings, and reports. *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 Bennett; Associate Professor Crofutt; Assistant Professors Larsen and Williams; Mr. Oleson; Mr. Ellis; Mr. Landon

Physics is that science which is concerned with the general laws and principles by which the phenomena of the physical world may be rationally understood. It comprises a body of knowledge which is highly organized by the use of mathematical language and precisely defined terms.

The various branches of this broad subject are unified by an abstract concept called energy, whose various manifestations and transformations also become the general concern of the student in this field of learning, from both a theoretical and an experimental point of view.

The science serves as the basis for all branches of engineering and is applied to numerous other phases of everyday life, although applications never wholly absorb or displace those underlying facts and theories on which they depend. Physicists are being absorbed in increasing numbers in industry as well as in the government bureaus and privately endowed research foundations. Trained physicists also find their places today in the larger hospitals where X-ray, radiation therapy, and allied techniques are of the utmost value. In brief, the physicist is rapidly acquiring recognition in our highly scientific modern world as an applied scientist.

To the person who wishes to apply the subject in any of the above ways, or who wishes to teach in the university or the secondary school, a basic training in the subject is the first requirement. Such training is offered by the general and intermediate courses Ps 1a, 2a, or 1b, 2b, and (17, 18; 19, 20) or (21, 22, 24). These courses should be supplemented by a balanced program of mathematics and chemistry. Following this basic training, a suitable number of the more advanced courses in physics is offered by the Department to prepare a student for minor positions in the profession, or to prepare him for the graduate training necessary for the higher positions.

For the intelligent layman who does not wish to be without at least a superficial knowledge of the physical world in which he lives, courses of the more descriptive variety are also offered (Ps 3, Ps 10).

The science requirement of the College of Arts and Sciences is met by Ps 1a, 2a, or Ps 1b, 2b, and partially met by Ps 3.

1a; 2a. General Physics.—This course covers the field of First-Year General College Physics. It is intended for the general student and will satisfy the science requirement in the College of Arts and Sciences, as well as the premedical and predental requirements. Emphasis is placed upon the fundamental relations in mechanics, sound, heat, electricity, magnetism, light, and modern physics. *Two lectures* and *two two-hour laboratory periods a week. Four credit hours.*

MR. BENNETT, MR. LARSEN, MR. OLESON

1b; 2b. General Physics.—This is a course in First-Year General College Physics which meets the requirements of the College of Technology, but is open to all students in the university. The lectures in this course are held jointly with Course 1a, 2a. With the extra recitations, however, this course places more emphasis on the solution of problems. A knowledge of algebra and geometry is prerequisite. *Two lectures, two recitations,* and *one two-hour laboratory period a week. Five credit hours.*

MR. BENNETT, MR. CROFUTT, MR. LARSEN, MR. WILLIAMS, MR. OLESON, MR. ELLIS, MR. LANDON

3 (4). Descriptive Physics.—A course intended to fill the need of the non-science student who feels that his orientation in the modern world cannot be complete without some knowledge of physical science. It treats in non-mathematical language and by classroom demonstrations the more important topics in physics with emphasis upon the vocabulary of the science and the proper relationships between the concepts. An attempt is made to develop in the student an appreciation for the concepts and methods of physics rather than a false sense of having mastered them. The course partially satisfies the science requirement in the College of Arts and Sciences. No previous knowledge of physics is assumed. *Three lectures a week with demonstrations. Three credit hours.* MR. BENNETT, MR. OLESON

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. The modern aspects of meteorology are also considered. *Three hours a week. Three credit hours.* MR. CROFUTT

17. 18. Intermediate Physics.—This course follows 1a, 2a, or 1b, 2b to complete a two-year program in general college physics. A more mathe-

matical treatment of many of the topics introduced in the first course is presented. This two-year program provides adequate preparation for advanced work in physics or for secondary-school science teaching, and at the same time provides a suitable sequence for a science or mathematics major. Course 19, 20 is recommended as a companion course. Course 1a, 2a, or 1b, 2b is prerequisite. *Three hours a week. Three credit hours.*

MR. BENNETT

19. 20. Intermediate Laboratory Physics.—A laboratory course intended to supplement Course 17, 18. The experiments are of a more advanced nature than those assigned in Courses 1a, 2a or 1b, 2b, and are selected from the field of general physics. Course 17, 18 is required concurrently or as a prerequisite. *Two hours a week. One credit hour.*

MR. WILLIAMS

21 (22). Mechanics and Heat Laboratory.—A laboratory course on the intermediate level designed primarily to meet the needs of the College of Technology. Fundamental problems in equilibrium, linear and rotary dynamics, vibratory motion, elasticity, viscosity, thermometry, pyrometry, heat of combustion, thermal conductivity, and elementary thermodynamics are studied from the experimental viewpoint. Course 1b, 2b is prerequisite. *Four hours a week. Two credit hours.*

MR. LARSEN, MR. WILLIAM, MR. CROFUTT, MR. OLESON

23. Electrical Measurements.—A laboratory course covering 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, vacuum tube characterists, and frequency of alternating currents. Open to those who have completed Course 19. 20 or its equivalent. Laboratory *four hours a week. Two credit hours.* MR. CROFUTT

26. Physical Measurements.—An intermediate course, presented from the laboratory viewpoint, designed to meet the needs of students in Chemical Engineering. Although similar in scope to Course 21 (22), the experiments are not restricted to the fields of mechanics and heat. Course 1b, 2b is prerequisite. *Four hours a week. Two credit hours.* MR. LARSEN

32. Photography.—This course deals with fundamental theories and techniques and should be of practical value to those considering any line of activity which involves photography. It should also be of interest to those who pursue photography as a hobby or as a form of artistic expression. The work includes construction and use of various types of cameras; lenses; exposure and exposure meters; emulsions; filters; artificial lighting and copying; con-

tact and projection printing; dark-room practice. *Two lectures and one two-hour laboratory period a week. Three credit hours.* MR. CROFUTT

50. Problems in Physics.—An undergraduate investigation of an original nature. *Credits from one to three hours, arranged.*
MEMBERS OF THE DEPARTMENTAL STAFF

55. Electricity and Magnetism.—An advanced course covering the fundamental aspects of electrostatics, magnetism, electromagnetic phenomena, direct and alternating currents. Course 17, 18, or its equivalent and a working knowledge of mathematics through the calculus are required. *Three hours a week. Three credit hours.* MR. LARSEN

58. Mathematical Physics.—An advanced course in selected theoretical aspects of physics. Mathematical methods are applied to physical principles. Open to students who have completed Course 17, 18 or its equivalent and who have a working knowledge of the calculus. Not given every year. *Three hours a week. Three credit hours.* MR. WILLIAMS

59. Sound.—An advanced 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 17, 18 or its equivalent, and have a working knowledge of the calculus. Not given every year. *Three hours a week. Three credit hours.* MR. CROFUTT

62. Heat and Thermodynamics.—An advanced course dealing with the measurement of temperature, specific heat, thermal expansion, conduction, convection, radiation, change of state, and the laws of thermodynamics. Open to students who have completed Course 17, 18 or its equivalent and who have a working knowledge of the calculus. *Three hours a week. Three credit hours.* MR. CROFUTT

66. Vacuum Tubes and Thermionic Phenomena.—An advanced course covering thermionic emission and electronic phenomena in vacuum. In addition to a theoretical treatment of the subject, the physics of vacuum tubes as rectifiers, amplifiers, modulators, and detectors is treated in a practical manner. Open to advanced students who are familiar with the calculus and who have completed Course 17, 18 or its equivalent. Not given every year. *Three hours a week. Three credit hours.* MR. LARSEN

69. Modern Physics.—An advanced course embracing a study of relativity, spectra, X-rays, photo-electric effects, radioactivity, atomic structure, electrical phenomena in solids, and nuclear physics. Some attention is

given to quantum and wave mechanics. Open to students who have completed Course 17, 18 or its equivalent and can use the calculus. *Three hours a week. Three credit hours.* MR. WILLIAMS

72. Optics.—An advanced course in the study of light covering its velocity of propagation, reflection, refraction, diffraction, interference, and polarization. It also includes a study of optical instruments. Open to advanced students who can use the calculus and have credit for 17, 18 or its equivalent. *Three hours a week. Three credit hours.* MR. BENNETT

81. 82. Advanced Laboratory Physics.—In this course selected advanced experiments are performed by the student under the supervision of some member of the staff. Opportunity is also given to develop original ideas and to construct original apparatus as part of the work. Courses 19, 20, or 21, (22) and 24 are prerequisite. *Credits, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

97. 98. Physics Seminar.—Topics recently considered include Quantum Mechanics, Statistical Mechanics, Nuclear Physics, and Band Spectra. *Credit, arranged.* MEMBERS OF THE DEPARTMENTAL STAFF

101. 102. Special Laboratory.—An original investigation, open only to graduate students. It is not expected in this course that a student will confine his work to a minimum number of hours a week. *Credits, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

PSYCHOLOGY

PROFESSOR DICKINSON; ASSOCIATE PROFESSOR BRUSH;
DR. GLANVILLE; DR. GEBHARD; DR. WILLIAMS

Psychology includes a study of mind and 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 the student 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.

The Department of Psychology offers a counseling service for students in the College of Arts and Sciences; for others by special request.

Some of the occupations which courses offered in the department lead toward are advertising and selling, clinical psychology, personnel work in business and industry, psychiatric and general social work.

Students may combine a major in Psychology with any other of the social sciences; Economics, Government, History, Philosophy, Sociology, or with Education or Zoology.

Psychology 0. The Technique of Effective Reading.—An analysis of the individual student's reading habits is followed by an intensive program of training designed to increase efficiency in reading. Limited to twenty-five students. *Elective. No credit. Two laboratory periods a week.*

MR. WILLIAMS

1; 2. General Psychology.—A basic course designed to give a general introduction to the field of psychology and to relate its subject matter to everyday life. A systematic survey of such topics as learning and memory, thinking, imagination, intelligence, personality, motivation, observation, the development and the physiological basis of behavior; a brief discussion of some of the special fields of psychology, e.g., applied, child, social, abnormal. *A weekly laboratory period.* Classroom, *two hours a week;* laboratory, *two hours a week. Three credit hours.*

THE DEPARTMENTAL STAFF

3. Applied Psychology.—Psychology applied to industry, business, advertising, salesmanship, and other fields. The application of psychological methods and tests in the selection and training of workers. Open only to Technology students in Mechanical Engineering. *Three hours a week.*

MR. BRUSH

12. Advertising and Selling.—Psychological principles involved in advertising and selling and their application in rewriting advertisements appearing in periodicals and in the development of a campaign to advertise and sell an actual product. Lectures by visiting experts in this field in the practical application of effective technique. Prerequisite, Course 1, and enrollment in Course 2. Course 12 may not be substitutd for Course 2. *Three hours a week.*

MR. DICKINSON

53. Clinical Techniques in Reading.—A study of the reading process, and of the causes and the diagnosis of reading defects. Students will receive clinical experience through the application of remedial procedures to individuals with reading difficulties. Prerequisite, Course 1; 2. Classroom, *one hour a week;* laboratory, *two hours a week. Two credit hours.*

65. Psychology of Adolescence.—Adolescent growth and development in the physical, intellectual, emotional, and social spheres. Adolescent personality and problems of adjustment. The adolescent and his relation to the family, the school, the community, and the world of work. Delinquency and abnormality among adolescents. Alternates with Py 77, The Psychology of Personality. To be given in 1941-42. Prerequisite, Course 1; 2. *Two hours a week.* MR. BRUSH

66. Educational Psychology.—The application of psychological facts, principles, and points of view to education. Consideration of growth during the school years, with attention to social, emotional and intellectual development. Learning in school; its nature and control, its permanence and effects on attitudes, interests and appreciation; the problem of transfer of training. Prerequisite, Course 1; 2. *Three hours a week.* MR. WILLIAMS

67. Psychology of Childhood.—A study of the mental growth of the child to twelve 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

67a. Psychology of Childhood.—A course of study modified slightly from Py 67 for students enrolled in the curriculum for nurses. Prerequisite, Course 1; 2, with a grade of C or better. *Three hours a week.* MR. DICKINSON

69; 70. Experimental Approach to Psychological Problems.—The first semester acquaints the student with experimental techniques and orients him in the objective approach to problems. In the second semester these techniques are applied to the problems of reaction time, susceptibility to glare, night blindness, safety, etc., in automobile driving, and to other problems of a practical nature. Prerequisite, Course 1; 2. *Three hours a week.* MR. GLANVILLE

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 cooperation of Dr. C. J. Hedin, superintendent, five clinics are conducted at the Bangor State Hospital on the following Tuesday afternoons from two until four o'clock: October 21, November 4, 18, December 2, 9. Attendance at the clinics is required. Prerequisite, Course 1; 2, with a grade of C or better. *Three hours a week.* MR. DICKINSON

76. Social Psychology.—The development of social behavior in the individual; personality in its relation to the social environment; social attitudes; forms of social interaction; the psychological basis of propaganda, crowd behavior and other forms of group activity. Prerequisite, Course 1; 2. *Three hours a week.* MR. BRUSH

77. The Psychology of Personality.—A consideration of the various current approaches to the psychological study of personality. The development of personality and its relation to biological and social factors. The analysis of personality into constituent traits; the structure and organization of personality. Personality measurement. The understanding of personality. Alternates with Py 65 Psychology of Adolescence. Not given in 1941-42. Prerequisite, Course 1; 2. *Two 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, clinical psychology, or personnel work. Prerequisite, Course 1; 2. *Three hours a week.* MR. BRUSH, MR. GLANVILLE

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 benefits of criticism and suggestions from the instructor at stated intervals. Admission by consent of the instructor. *Hours arranged.*
MR. DICKINSON AND STAFF

93. 94. Seminar in Psychology.—Advanced work for graduate students, psychology majors, and other interested and qualified persons. 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. LEVINSON, MR. DICKINSON

RELIGION

MR. BEVERAGE

1. 2. A Survey of Old Testament History and Literature.—A course intended to enable students to understand the great moral, ethical, and religious heritage of ancient Hebrew civilization. Lectures, discussions,

and supplementary readings are designed to furnish a comprehensive view of the economic, geographic, historical, and sociological forces which produced the great achievements of the Old Testament records. *Three hours a week. Three credit hours.*

3. 4. Religion and Modern Life—A study of the essential nature and function of religion in contemporary society, based upon an historical survey of the origin and development of the religious consciousness. Assigned readings supplement lectures and discussions directed towards the development of students' ability and desire to evaluate for themselves both the theoretical and practical application of our great religious tradition. *Two hours a week. Two credit hours.*

ROMANCE LANGUAGES

Professor Peterson; Assistant Professors Arnold, Buzzell, and Vigneras; Dr. Starr

The Department of Romance Languages offers in its French courses the opportunity to perfect one's self in writing and speaking the language. The more elementary courses provide primarily practice in 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 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 Spanish and Italian, 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 a minimum of 20 hours in the junior and seniors years, which should include Courses 55, 56 and 63, 64. Courses 21, 22; 29, 30 may not ordinarily be included in this number, being intended primarily for sophomores. Twelve of the 20 hours must be in literature. Major students are advised to secure some familiarity with another modern language or to continue Latin. They are expected to take at least a year in European history, a requirement which may be met by History 5, 6 or the course on Western Civilization.

Students may also concentrate in the general field of Romance Languages, electing, in the junior and senior years, a total of 24 hours of suitable courses in French, Spanish, and Italian. Students whose main interest is Spanish should register for History 65, 66 (Latin American History).

Students not concentrating in Romance Languages but expecting to teach them will be recommended for the teacher's certificate if they elect one year-course in literature and two years-courses in oral French. This same basic program is recommended also for those who take French with a view to diplomatic and consular service or positions in the foreign department of city banks or foreign posts in other industries. The oral work especially is suggested for those interested in art and music, secretarial work, and department store buying.

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 writers of the modern period.

3; 4. Intermediate French.—Reading of narratives, with grammar review. Attention to pronunciation and exactness of translation. For students offering two units of French as an entrance requirement and for those offering three units whose preparation is inadequate for Course 5, 6. In the latter case only three hours of credit are allowed. *Four hours a week.*

MISS BUZZELL, MR. VIGNERAS

5. 6. Advanced French.—Reading of novels and short stories, some intensively, others more rapidly, to secure facility in the comprehension of present-day French prose. Study of idioms and word usage. Accuracy in translation is stressed. Open to students offering three units of French as an entrance requirement and to exceptional students offering two units. *Three hours a week.* MR. PETERSON, MR. VIGNERAS, MISS BUZZELL, MR. STARR

GENERAL LANGUAGE AND LITERATURE COURSES

7. 8. Elementary Conversation and Composition.—Grammar review and constant drill in spoken French to acquire a practical vocabulary and achieve correct speech. Open to students who have offered three units of French for entrance or who have completed Course 3, 4. *Two hours a week.*

MR. PETERSON, MISS BUZZELL

8a. Elementary Conversation and Composition.—An intensive second-semester course covering the same material as Course 7, 8. Open to students whose previous record in the subject is above the average. *Two hours a week.*

MR. PETERSON, MISS BUZZELL

9. 10. Advanced Conversation and Composition.—The aim of the course is to enable the student, through discussion of the customs and interests of every-day French life, to express himself readily in colloquial French. Required of all majors and students planning to teach French. *Two hours a week.* MR. VIGNERAS

9a. 10a. French Civilization.—A survey of French civilization designed for students taking concurrently Course 9, 10, and required of majors in French. *One hour a week.* MR. VIGNERAS

Course 5, 6 or the equivalent is a prerequisite for all courses listed below. Students who have not passed a reading test should register for Course 17, 18. Those who have passed a reading test may elect either Course 21, 22 or 29, 30, one of which is a prerequisite for courses in literature numbered above 50.

17. 18. Rapid Reading Course.—A continuation of Course 5, 6 designed to promote facility in reading for those who have not passed a reading test. *Three hours a week.* MISS BUZZELL

21. 22. The Novel in the Nineteenth Century.—A study of the development of the modern French novel through the romantic, realistic and naturalistic periods with emphasis upon the political, social and cultural backgrounds. Outstanding novels in each period are read and analyzed in detail. *Three hours a week.* MR. STARR

29. 30. Contemporary Literature.—A study of leading twentieth-century writers, with special attention to the novel and drama. A brief review of literary trends from 1880 to the World War, followed by an intensive study of the post-war period with emphasis upon economic, social, and political influences. *Three hours a week.* MR. VIGNERAS

MORE ADVANCED COURSES

The following courses are conducted mainly in French

55. 56. The Theatre in the Nineteenth Century.—A study of the great dramatists of modern France with lectures on the development of the theatre. Reading of plays of the Romantic and Realistic schools, and as an introduction four eighteenth-century plays. An effort is made to develop independent criticism of style and technique. Alternates with Course 63, 64; offered in 1941-42. *Three hours a week.* MR. PETERSON

57. 58. French for Prospective Teachers.—In the first semester, a review of French history in its relation to French literature, twice a week,

and a study of phonetics, once a week. Second semester, a critical study of textbooks, teaching aids (maps, posters, slides, films, charts), the organization and conduct of school French clubs, French customs, with attention to methods of teaching, twice a week; a review of grammar stressing the common difficulties confronting the teacher in the secondary school, once a week. *Three hours a week.* With the permission of the head of the Department, the course may be taken without phonetics or grammar review on a two-hour basis. MISS BUZZELL, MR. PETERSON, MR. VIGNERAS

63. 64. French Classical Literature.—A study of the leading characteristics of the seventeenth and eighteenth centuries. Reading of masterpieces of the novel and drama and selections from La Fontaine, Boileau, Voltaire, Montesquieu, Rousseau, and other writers. Alternates with Course 55, 56; not offered in 1941-42. *Three hours a week.* MR. PETERSON

67. 68. Survey of French Literature.—A summary of the growth of French literature from the Middle Ages to the present day, with emphasis upon the important literary movements. Reading of selections representing literary forms and periods not covered in other courses. Alternates with Course 57, 58; not offered in 1941-42. *Two hours a week.* MR. VIGNERAS

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. Reading is begun at an early date, and emphasis is laid upon the acquisition of an adequate vocabulary and facility in reading. Alternates with Course 3, 4; offered in 1941-42. *Three hours a week.* MR. STARR

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. Not offered in 1941-42. *Three hours a week.* MR. STARR

52. Dante and the Italian Renaissance.—This course may be offered in place of Italian 4 when there is sufficient demand. *Three hours a week.* MR. STARR

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. *Four hours a week.*
MISS ARNOLD, MR. PETERSON, MR. STARR

1a-2a; 2b. Elementary Spanish.—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.* MISS ARNOLD

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.* MISS ARNOLD

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

7. Commercial Spanish.—The object of this course is to acquaint the student with the forms of private and commercial correspondence and the vocabulary used in the business world. Reading of selections dealing with industrial and commercial life. Given occasionally. *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 largely of narratives, will be limited to the modern period. *Two hours a week.* MISS ARNOLD

26. Current Spanish Literature.—The reading of contemporary authors, especially in magazine articles. *Two hours a week.* MISS ARNOLD

57. 58. Survey of Spanish Literature.—A study of the development of the various literary forms in Spain and the reading of selections from representative authors of various periods. Some attention is given to Spanish-American writers. Given occasionally. *Two hours a week.*

SPEECH

PROFESSOR BAILEY; ASSOCIATE PROFESSOR RUNION; ASSISTANT PROFESSOR BRICKER; MR. DUSENBURY; MR. WETHERBEE

The primary function of the Department of Speech is to offer courses in all phases of speech education, including formal and informal speech, debate, radio, voice, speech correction, expression, and theatre.

Within the field of speech it is possible to plan either a Speech or a Drama major, emphasizing the phase of work of most interest to the student. The student is advised, however, to have a broad general background in speech, especially if he desires to teach speech in the high school.

For all majors in Speech both an oral and written comprehensive examination is required. The examination naturally varies according to the major curriculum followed by the student.

Students interested primarily in the theatre are required to give a recital of approved standard, or direct, or take part in a major role in a dramatic production. Major students other than those interested in the theatre are expected to present a forty-five minute address before some civic organization such as a service club, church organization, or similar group.

Basic courses in speech required of all majors are Sh 1 (2), Sh 3 (4), Sh 7, and Sh 15.

Division of Speech, Radio, Debate

0. Speech Correction.—Open to students with speech defects. The method of instruction is largely individual. *No credit.*

MR. RUNION, MR. DUSENBURY

1 (2). Public Speaking.—A basic course in public speaking. The student is taught to organize material and to deliver short extemporaneous speeches. Each student is required to have a recording made of his speech. *Two hours a week.* THE STAFF

3 (4). Debate.—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. (Open to freshmen with special permission of instructor.) *Two hours a week.* MR. RUNION

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.* THE STAFF

7. Interpretative Reading.—The oral presentation of selections from prose, poetry, and drama form the basis of this course. Choral Reading and Program Reading are likewise considered. This course is recommended especially to the teacher of English who may wish to improve his oral interpretation of literature. (Open to freshmen.) *Two hours a week.*
MR. DUSENBURY

8. Program Reading.—This course is a continuation of Course 7 with emphasis upon program building. Choral reading, plays, and longer readings are the material for the course. Outstanding textbooks in the field of Interpretation are discussed and reviewed. Prerequisite, Course 7 or permission of instructor. *Two hours a week.* MR. BAILEY

12. Parliamentary Law.—A course stressing principles of parliamentary procedure and methods of conducting a meeting. The class organizes as a parliamentary society, constructing and adopting a constitution and by-laws. Each student will have an opportunity to preside. No prerequisite. *One hour a week.* MR. RUNION

19. 20. Advanced Debate.—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 or permission of the instructor. *One hour a week.*
MR. RUNION

21 (22). Radio Speaking.—A semester course stressing the qualities necessary for effective radio speaking, with emphasis on voice, diction, enunciation, and pronunciation. Critical analysis of current radio programs; the writing of radio scripts, sports, news, and commercial copy. Students participate in radio programs broadcast from the studios on the campus. Prerequisite, Course 1, or permission of instructor. *Two hours a week.*
MR. DUSENBURY

42. Pre-Legal Speaking.—This course is primarily designed for those who plan to study law. Court room procedure is followed. Each student acts as prosecuting and defense attorney, judge and witness. Legal briefs are prepared. Trips will be made to a circuit court in Bangor. Prerequisite, Course 1 (2). Offered in 1941-42 and alternate years. *Three hours a week.*
MR. RUNION

43 (44). Advanced Radio Speaking (Techniques of Radio Broadcasting).—A continuation of 21 (22) with special emphasis on production, program planning, writing, advertising, drama, journalism, and education as applied to radio. Students will serve as directors of educational broadcasts originating on the campus. Recordings of radio programs are studied and analyzed. Prerequisite, Course 21 (22), or by permission of instructor. *Two hours a week.* MR. DUSENBURY

46. Advanced Public Speaking.—Practice in the presentation of several longer speeches leading to the making of a forty-five minute address. A review and study of contemporary speeches. Prerequisite, Course 1, 3, or 6. Offered in 1942-43 and alternate years. *Two hours a week.* MR. DUSENBURY

52. Vocal Development.—The aims of this course are to improve the voice and to give training in distinguishing correct and defective sounds. The phonetic symbols of the International Phonetic Association are used. Prerequisite, Course 1 (2) or 7. Offered in 1941-42 and alternate years. *Two hours a week.* MR. RUNION

54. Stage History.—History of the stage from the days of the Greeks to our own times, with special emphasis on the history of the English and American stage. Lectures, discussions, readings, and special reports. *Two hours a week.* MR. BAILEY

59. Theory of Speech Composition.—Historical and critical survey of rhetorical theory from Aristotle to the present time with particular attention to Aristotle, Cicero, and Quintilian. Open to juniors and seniors. Offered in 1940-41 and alternate years. *Three hours a week.* MR. RUNION

67. 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. Open to juniors and seniors. *Three hours a week.* MR. RUNION

70. Teaching of Speech.—Consideration of teaching problems and technique with special emphasis on the speech program in the secondary schools. Supervision of extracurricular activities in speech. Study of textbooks. Open to juniors and seniors or by permission of instructor. *Three hours a week.* MR. RUNION

Division of Theatre

The Maine Masque Theatre is affiliated with the Department of Speech. The Theatre presents four major productions each year. All drama majors are expected to participate in these productions using the Theatre as a practi-

cal training ground. This work is supplementary to the regular course requirements, and no credit is given. Each major is required to serve as an assistant stage manager and as a stage manager during his undergraduate course.

All undergraduate students in the University are eligible to read for plays to be produced and may participate in the other departments of the Theatre.

9 (10). Theatre Appreciation.—A lecture course for students wishing to cultivate an appreciation for the present-day theatre. Topics presented: dramatic theory and criticism, problems of our theatre today, drama books and magazines, actors, scene designers, directors, producers, playwrights, etc. Open to all university students. An elementary course for drama majors. *Two credit hours.* MR. BRICKER

15 (16). Elementary Acting.—A course designed to emphasize the fundamentals in theory and in practice. Lectures and classroom exercises. Public recitals for students who have attained a degree of technique. Open to freshmen. *Four hours a week. Three credit hours.* MR. BRICKER

17 (18). Stagecraft.—Practical experience in building and painting scenery, and in scene designing and lighting. Open to freshmen. *Four hours a week. Three credit hours.* MR. WETHERBEE

28. Scene Designing and Lighting.—The artistic principles of scene designing and lighting. Lectures and exercises. Prerequisite, Course 17. *Two credit hours.* MR. WETHERBEE

30. Advanced Acting.—A study of acting technique. An opportunity to study several roles during the year. Public recitals. Prerequisite, Course 15. *Four hours a week. Three credit hours.* MR. BRICKER

32. Costume.—Costume designing for definite play characters. Conference and laboratory. Prerequisite, Course 28. *Two credit hours.* MR. BRICKER

35. Make-up.—Practice in making up all types of characters. *Two hours a week. One credit hour.* MR. BRICKER

37. 38. a-f.—Theatre Projects.—Advanced work in one or more of the following divisions of the theatre: acting, designing, costuming, lighting, directing, and make-up. Admitted by permission. *Two credit hours.* MR. BRICKER, MR. WETHERBEE

37a. 38a. Acting.
37b. 38b. Designing.

37c. 38c. Costuming.
37d. 38d. Lighting.
37e. 38e. Directing.
37f. 38f. Make-up.

Students are not permitted to take more than six hours of work in this course.

39, 40. Stage Directing.—A course giving the student, both in theory and practice, the principles of stage directing. Admitted by permission. *Two credit hours.* MR. BRICKER

The following courses qualify toward drama major credit:

He 3. Design. (See page 146. Department of Home Economics.)

He 61. History of Costume. (See page 150. Department of Home Economics.)

Md 1. Fundamentals of Drafting. (See page 286. Department of Engineering Drafting.)

Md 2a. Drafting. (See Department of Engineering Drafting.)

Pe 1a. 2a. Modern Dance, Elementary. (See Department of Physical Education and Athletics.)

TYPEWRITING AND SHORTHAND

Gc 7 (8). Typewriting.—A beginning course in touch typewriting for personal use. Correct machine technique is stressed. Practice is given in the correct arrangement of business letters, use of carbon, addressing envelopes, tabulation, theme writing, cutting stencils, and in other business forms. Drills are given to acquire accuracy and speed. *No credit.* REGINA H. PREBLE

Gc 9; 10. Shorthand.—A beginning course offered two semesters and aimed to cover the principles of Gregg Shorthand. Considerable drill is given in the reading and writing of shorthand. Special attention is given to transcription and the attractive arrangment of a typewritten letter or manuscript. Membership is anticipated in the Order of Gregg Artists, Theory and the Transcription clubs through cooperation with the Gregg Publishing Company. *No credit.* REGINA H. PREBLE

WESTERN CIVILIZATION

For course descriptions, see page 209, under Modern Society.

ZOOLOGY

Professor Murray; Associate Professor Speicher; Assistant Professor Cooper; Dr. Fuller; Dr. Flynn; Mr. Topping; Mr. Cail; Mr. Walsh; Miss MacBride

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 natural environment, and serves as a basis for the study of the mental and social side of human behavior.

The Department offers curricula satisfying the requirements 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 natural science requirement in the College of Arts and Sciences. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* Mr. Murray and Assistants

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 natural 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. Speicher, and Assistants

7. Principles of Zoology.—A general course for the non-major student which emphasizes those fields of biology which directly affect man and his society. No formal laboratory work, but an opportunity is given for observation and study of selected biological material. Acceptable for the science requirement, but not for admission to advanced courses. Classroom, *two hours a week;* demonstration period, *two hours a week. Three credit hours.* Mr. Fuller

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.* Mr. Cooper

10. Ornithology.—A course which deals with the characteristics of birds, their life histories and economic importance. Lectures supplemented by laboratory study of skins and mounted specimens, and directed field observation. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.* MR. COOPER

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. FULLER

13. Mammalogy.—A course which deals with the characteristics of mammals, their life histories and economic importance. Lectures supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. MURRAY

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. MURRAY, MR. FLYNN

17. 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. FLYNN

18. Vertebrate Embryology.—A study of the development and formation of tissues, organs, and organ-systems in vertebrates. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.*

MR. FLYNN

19. Fish Management.—This course deals with modern methods of fish management including fish culture and distribution, fisheries legislation, lake and stream surveys, and environmental improvements. Prerequisites, Zoology 9 and Entomology 26. First nine weeks of the first semester. Lecture, *one hour a week;* laboratory, *three hours a week. One credit hour.*

MR. COOPER

20. Fish Management.—Continuation of 19. Lecture, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. COOPER

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. FULLER

41. Histology.—A study of animal tissues and of the methods of preparing microscopic slides. Admission by arrangement with the instructor. Classroom, *one hour a week;* laboratory, *six hours a week. Three credit hours.* MR. SPEICHER

44. History of Biology.—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. Prerequisite, Zoology 1, 3-4, or 7. Classroom, *two hours a week. Two credit hours.* THE STAFF

47. 48. Problems in Zoology.—Open to juniors and seniors who may have special interest and special qualification in some branch of zoology. The approval of the instructor concerned must be obtained before registering for this work. *Credit, arranged.* THE STAFF

55. 56. Zoological Seminar.—A consideration of the current literature which expresses the trend of thought in biological science. Required of all senior majors and graduates majoring in zoology. Classroom, *one hour a week. One credit hour.* THE STAFF

66s. Marine Invertebrate Zoology.—This course is given during the summer at the University of Maine Biological Laboratory at Lamoine. It is open to students of Zoology who wish to gain first-hand acquaintance with living forms. Lectures and readings cover the general field of invertebrate zoology from the systematic phylogenetic viewpoint. In the laboratory the anatomy of typical forms and problems discussed in the lectures are studied. Usual daily schedule consists of a morning lecture and a supervised morning and afternoon laboratory period. Field trips stressing the collecting, classification, and habitat of local forms of marine life are conducted two or three times a week. *Six hours credit.*

MR. REINHARD, MR. SPEICHER, AND ASSISTANTS

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 with credit arranged:

105. 106. Problems in Zoology.

111. 112. Problems in Physiology.

109. Ichthyology; 110. Ornithology; 113. Mammalogy; 114. Parasitology; 115-116. Anatomy; 118. Embryology; 119-120. Fish Management; 121-122. Animal Ecology; 137-138. Physiology; 141. Histology.

125. Graduate Thesis.

School of Education

GENERAL INFORMATION

The School of Education offers professional training to secondary teachers, superintendents, principals, and supervisors. Students will ordinarily 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

Students in the normal schools who wish to qualify for the Maine secondary-school teacher's certificate should plan to transfer to the University at the end of their second year at the normal. Such students who rank in the upper half of their class and are recommended by their principal may be ad-

mitted to the School of Education with full junior standing, and may graduate on the satisfactory completion of two years of work.

Graduates of the three-year courses in the normal schools, who rank in the upper half of their classes and are recommended by their principal, may be admitted to the School of Education with Senior standing and may graduate on the satisfactory completion of one year of work. This program will not, however, qualify one for the secondary-teacher's certificate because the latter now requires at least two years of college work.

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 filed 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 Director of Admissions 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.

Art Education

Students who complete an approved three-year curriculum in the Portland School of Fine and Applied Art and the Westbrook Junior College may transfer to the University with full credit and complete a curriculum which leads to the degree of Bachelor of Science in Fine Arts Education.

Music Education

Students who complete an approved two-year curriculum at the Northern Conservatory of Music in Bangor may transfer to the University with appropriate credit and complete in two years a curriculum which leads to the degree of Bachelor of Science in Music Education.

GRADUATION REQUIREMENTS

The equivalent of 125 hours of college work is required for graduation. Three-fourths of the work done while a student in the School of Education must be completed with grades of "C" or better.

It is expected that this proportion of "C" grades or better be maintained throughout the student's curriculum in the School of Education.

If, at the completion of 125 hours, the student has failed to maintain this proportion of "C" grades or better, the Dean shall determine whether and in what manner the deficiency may be made up. In no case may the student take more than six additional hours to satisfy the graduation requirement.

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.

Professional Subjects Required

Ed 29 (or 30)—Practice Teaching
Ed 49 (or 50)—Seminar in Education
Ed 51, 52, 53, or 54—History of Education
Ed 59 (or 60)—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)

Transfer students should plan to take a minimum of two courses in Education at the University regardless of the amount transferred.

Besides these specific requirements in strictly professional subjects, students will be strongly advised to take general courses in a number of sub-

jects 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. Those, however, 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 EXAMINATION

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 and summer session students will be expected to take the examination as well as regular resident students.

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. The amount permitted will be in proportion to the total amount of time spent at the University.

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.

(4) Bachelor of Science in Fine Arts Education. This degree is awarded to students who have completed the combined course of study at the Portland School of Fine and Applied Art and Westbrook Junior College and the final year of work as prescribed at the University of Maine.

(5) Bachelor of Science in Music Education. This degree is awarded those who have completed the combined curriculum at the Northern Conservatory of Music, in Bangor, and the University.

Courses of Instruction

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

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.

A period between the numbers designating a two-semester course indicates either semester may be taken for credit.

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.

For courses in Psychology, see Department of Psychology in the College of Arts and Sciences.

PROFESSORS LUTES, CHADBOURNE, AND SMITH; ASSOCIATE PROFESSORS JACKMAN AND CRAWFORD

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

29a. Supervised Teaching in English.—Supervised tutoring of small groups of freshmen deficient in the mechanics of composition. Actual tutoring is preceded by a period of study and discussion of methods of correcting poor habits of writing and of teaching composition. Each group is conducted as a clinic in writing. Open to seniors whose major subject is English. *Two hours weekly through December. One credit hour.*

MR. JACKMAN, MISS OLIVER

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. *Three hours a week.*

THE DEPARTMENTAL STAFF

51. History of Education in the United States.—A course which traces the 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 development 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

56. Maine School Law.—The purpose of this course is to present the present-day Maine school law and the steps by which it has been evolved. Primarily for seniors and graduate students. *Two 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 skill, 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

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, extracurricular activities, testing programs, and techniques of supervision will be emphasized. Primarily for seniors. Open to others by permission. *Three hours a week.*

MR. LUTES

63. Junior High School Education.—The course presents a theory of the junior high school based upon the psychology of adolescence, and shows the consequences of such theory in the formation and treatment of curriculum. Open to juniors and seniors. Given in 1941-42 and alternate years. *Two hours a week.* MR. JACKMAN

65 (66). Educational Measurements.—An introdution to educational measurements including principles of measurements, informal and standardized educational tests, group mental tests, and the uses of elementary statistics in educational measurements. Open to juniors and seniors. *Three hours a week.* MR. CRAWFORD

68. Educational and Vocational Guidance in Secondary Schools.—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. Extracurricular 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 1941-42 and alternate years. *Two hours a week.* MR. JACKMAN

75. Teaching the Social Studies 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. Not given in 1941-42. *Two hours a week.* MR. JACKMAN

77 (78). 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

80. Current Issues in American Education—This course considers public education in relation to present social, industrial, and economic backgrounds. It deals with certain internal educational issues that emerge from present changing conditions. *Two hours a week.* MR. SMITH

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. *Three 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. *Three hours a week.* MR. CRAWFORD

87. The Secondary School Curriculum.—An inquiry into current tendencies of secondary school curricular reorganization. Not given in 1941-42. *Two hours a week.* MR. JACKMAN

93. Remedial Reading.—A course designed to demonstrate methods of determining reading ability, and to present methods of preventing, analyzing and correcting reading difficulties. This course assumes a knowledge of either or both educational psychology and educational measurements. *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 coordination. *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

99. The Supervision of Schools.—This course is open only to experienced teachers or administrators, or to students who have had at least 12 hours of Education. *Two hours a week.* MR. SMITH

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

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, various branches of engineering, engineering physics, 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 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.

Students taking Mathematics 11 and 12 in the freshman year, and Mathematics 7a and 8a in the sophomore year, are selected (by the Department of Mathematics and the College of Technology) on the basis of proficiency in mathematics.

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
- Pulp and Paper Division
- Administrative Option

Chemistry Curriculum
Civil Engineering Curriculum
Electrical Engineering Curriculum
Engineering Physics Curriculum
General Engineering Curriculum
Mechanical Engineering Curriculum

For Agricultural Engineering Curriculum, see page 98.

The following requirements for graduation are common to all curricula

1. A total of 143 semester hours exclusive of Military Training 1, 2, 3, and 4, and Physical Training. Three of these hours may be for thesis. Eight credit hours may be allowed for advanced military. Of the courses required for graduation, in which letter grades are given, 105 hours must be passed with a grade of C or above; or, in the case of those students who are excused from Military or who enter with advanced standing from other institutions, 70 per cent of the credit hours offered for graduation, in which letter grades are given, must be passed with a grade of C or above. This ratio of hours should be maintained throughout the course from the beginning.

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.

7. Comprehensive Examinations:

   Qualifying examinations for sophomores are given at the end of the sophomore year and used as a guide, in conjunction with the actual student grades, to determine fitness to undertake the professional studies of the junior and senior years.

   A comprehensive examination, which is given to all seniors, must be passed to the satisfaction of the major department.

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.

Course Expenses

The following statement about the expenses incurred by students in the College is intended to supplement the material contained in the section on expenses, beginning on page 69.

For College of Technology students the minimum and maximum course expenses (includes required equipment, books, and supplies) are indicated in the following table:

	Fall Semester	Spring Semester
Freshmen	$70.00*, †	$7.00
Sophomores	40.00†-62.00†	11.00-20.00
Juniors	22.00 -43.00	10.00-23.00
Seniors	20.00 -39.00	10.00-28.00

* Includes $18.50 for drawing equipment, which is used in all drawing courses.

† Includes a military deposit ($20.00) for the entire year. Net cost of the course depends upon amount of equipment and clothing lost, destroyed, worn out, or held out by students, refund being made for that turned back in satisfactory condition to the Military Department.

Civil Engineering Summer Camp tuition for University of Maine students is $15.00. All other students are charged regular Summer Session tuition.

MAINE TECHNOLOGY EXPERIMENT STATION

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 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 Mechanical Engineering Laboratory is available for researches in the fields of hydraulics, steam-engineering, gas-engineering, metallography, and strength of materials. The electrical power laboratory in Lord Hall includes among its equipment a 150,000 volt testing transformer and standard instruments for calibration purposes. The communication laboratories in this building offer facilities for telephone transmission testing and radio research. The division 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 and the new soils mechanics laboratory in the basement of Lord Hall have been jointly equipped by the Civil Engineering Department, the Maine State Highway Department, and this Station.

Investigations

The principal line of research has been in the field of concrete and concrete materials. In this field, the Station, at the present time, is cooperating with the American Society for Testing Materials in the statistical analysis of data. As a result of the facilities offered by the new soil mechanics laboratory, research in soil mechanics has recently been undertaken. Researches are also being conducted in the electrical, mechanical, and chemical fields, as well as in the pulp and paper industry.

Publications

The Station issues two series of publications: Bulletins and Papers. It has issued thirty-six bulletins and thirty-eight 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. Eng., Electrical Engineering, Journal Me. Assn. of Engrs., Industrial and Engineering Chemistry, Tech. Assn. of Pulp and Paper Industry, Gen. Elec. Review, Trans. of the Newcomen Soc., Radio Engineering, Trans. of the Electrochemical Soc., Proc. of the I.R.E., N. E. Assn. of Chemistry Teachers, Am. Journal of Science, Journal of Chem. Educ., and Paper Trade Journal.

CURRICULA

Freshman Year

Common to all engineering courses and Chemistry

FALL SEMESTER

Subject			Hours Rec.	Lab.	Cr.
Ch	1	Gen. Chemistry	2	4	4
Eh	1	Freshman Comp.	3	0	3
Md	1	Funds. Draft.	0	4	2
Ms	1	Trigonometry	2	0	2
Ms	3	Algebra	2	0	2
Mt	1	Military	2	1	1½
Ps	1b	General Physics	4	2	5
Pt	1	Phy. Education	0	2	0
Gc	5	Orientation	1	0	½

SPRING SEMESTER

Subject			Hours Rec.	Lab.	Cr.
Ch	2	Gen. Chemistry	2	4	4
Eh	2	Freshman Comp.	3	0	3
Md	2	Ely. Mach. Draft	0	4	2
Ms	6	Anal. Geom.	4	0	4
Mt	2	Military	2	1	1½
Ps	2b	General Physics	4	2	5
Pt	2	Phy. Education	0	2	0
Gc	6	Orientation	1	0	½

Chemical Engineering Curriculum

This curriculum is designed to train students to become chemical engineers and leads to the Bachelor of Science degree in Chemical Engineering. See Pulp and Paper Division, page 252. See Administrative Option, page 254. The first two years are quite similar to those under the Chemistry curriculum, but in the junior and senior years the students enrolled take fundamental courses in chemical engineering, supported by related work in other engineering fields.

Graduates will be prepared to enter the profession of chemical engineering and to occupy positions as production foremen, plant directors, research and chemical engineers in industrial plants. Chemical engineering graduates from this Department are now holding responsible positions as consulting chemical engineer, industrial sales engineer, assistant plant super-

intendent, research chemical engineer, research engineer and plant director. Graduates from recent classes hold such positions as examiner in U. S. Patent Office, engineer, assistant traffic manager in a chemical company, and several positions designated as chemist. Superior students should give serious consideration to an additional year's study for the Master of Science degree in Chemical Engineering. See also statements on pages 246 and 247.

Freshman Year

Common to all engineering courses. See page 250.

Sophomore Year

FALL SEMESTER

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch 31a	Micro-Qualitative Anal.	2	3	3
Ch 51	Organic Chem.	3	4	5
ChE 33	Elementary Stoichiometry	3	0	3
Ee 31	Electrical Circuits	2	0	2
Ms 7	Diff. Calculus	5	0	5
Mt 3	Military	2	1	2
Pt 3	Phy. Education	0	2	0

SPRING SEMESTER

	Subject	Hours Rec.	Lab. or Comp.	Cr.
*Ch 22	Intro. Theoret. Chem.	3	0	3
Ch 40	Quantitative Anal.	1	8	4
Ch 52	Organic Chem.	3	4	5
Ee 32	Elect. Machinery	2	0	2
Ms 8	Int. Calculus	5	0	5
Mt 4	Military	2	1	2
Pt 4	Phy. Education	0	2	0

Junior Year

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch 61	Tech. Analysis	1	8	4
Ch 71	Phys. Chem.	2	6	5
ChE 75	Els. of Chem. Eng.	3	0	3
Eh 5	Tech. Comp.	2	0	2
Gm 19	German for Chemists	3	0	3

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch 72	Phys. Chem.	2	6	5
ChE 76	Els. of Chem. Eng.	3	0	3
*Eh 10	Modern Lit.	2	0	2
Gm 20	German for Chemists	3	0	3
Me 44	Heat Engineering	3	0	3
Ps 26	Physical Measurements	0	4	2

* Recommended Elective.

Senior Year

FALL SEMESTER					SPRING SEMESTER				
Subject		Hours			Subject		Hours		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ch 85	Journal Seminar	2	0	2	*ChE 50	Thesis	Arr		1-3
*ChE 49	Thesis	Arr		1-3	ChE 78	Organ. Tech.	3	0	3
ChE 77	Inorgan. Tech.	3	0	3	ChE 82	Chem. Eng. Lab.	1	4	3
ChE 81	Chem. Eng. Lab.	1	4	3	*ChE 88	Chem. Eng. Practice	0	9	3
Me 41	Mechanical Lab.	0	3	1½	Mn 54	Mechanics	3	0	3
Mn 53	Mechanics	3	0	3					
Sh 1	Public Speaking	2	0	2					

* Recommended Elective.

With the approval of the head of the department, Advanced Military may be substituted for Ch 22, Ps 26, and Me 41.

Pulp and Paper Division

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 chemical, electrical, and mechanical engineering, mechanics, and pulp and paper technology. Graduates in this Division, who receive the degree of Bachelor of Science in Chemical Engineering (Pulp and Paper Division), will be prepared to occupy positions as production foremen, salesmen, research chemists, and works-control chemists in pulp and paper plants and in chemical industries.

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 for each year. Non-elective courses *must be passed* before he is eligible for graduation.

All sophomore Pulp and Paper major students are required to take the Summer Mill Practice course or its equivalent.

Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

Same as Chemical Engineering. See page 251.

Summer

Subject		Hours. Cr.
Pa 40s	Summer Mill Practice	3

Junior Year

FALL SEMESTER

Subject		Hours Rec.	Lab. or Comp.	Cr.
Ch 71	Phys. Chem.	2	6	5
ChE 75	Els. of Chem. Eng.	3	0	3
Eh 5	Tech. Comp.	2	0	2
*Gm 19	German for Chemists	3	0	3
Pa 65	Pulp Tech.	3	0	3
Pa 67	Pulp Mfg	0	4	2
Sh 1	Public Speaking	2	0	2

SPRING SEMESTER

Subject		Hours Rec.	Lab. or Comp.	Cr.
Ch 72	Phys. Chem.	2	6	5
ChE 76	Els. of Chem. Eng.	3	0	3
*Eh 10	Modern Lit.	2	0	2
*Gm 20	German for Chemists	3	0	3
Me 44	Heat Engineering	3	0	3
Pa 66	Paper Tech.	3	0	3
Pa 68	Paper Mfg.	0	4	2

Senior Year

Subject		Hours Rec.	Lab. or Comp.	Cr.
*ChE 77	Inorg. Tech.	3	0	3
ChE 81	Chem. Eng. Lab.	1	4	3
Me 41	Mechanical Lab.	0	3	1½
Mn 53	Mechanics	3	0	3
*Pa 49	Thesis	Arr		1-3
Pa 83	Chem. Eng. of Pulp and Paper Mfg.	3	0	3
Pa 87	Paper Test. and Anal.	0	4	2
Pa 89	Pulp and Paper Practice	09		3

Subject		Hours Rec.	Lab. or Comp.	Cr.
*ChE 78	Organic Tech.	3	0	3
ChE 82	Chem. Eng. Lab.	1	4	3
ChE 84	Unit Processes	1	4	3
Mn 54	Mechanics	3	0	3
*Pa 50	Thesis	Arr		1-3
Pa 82	Pulp Coloring and Bleaching	0	4	2
Pa 86	Pulp Test. and Anal.	0	4	2

* Recommended Elective.

Administrative Option

An administrative option is available to a few students who desire to qualify for positions in the technical business and sales branches of chemical industries. Registration for this curriculum must be made before the second semester of the sophomore year. Substitution of other elective courses for those courses listed as recommended elective may be made with the approval of the head of the department. A superior scholastic record is required, and it is not possible to substitute for more than 17 nor less than 14 hours from the regular Chemical Engineering curriculum.

Chemistry Curriculum

The primary aim of the Chemistry curriculum is to present the principles and techniques of inorganic, analytical, organic, and physical chemistry. The training outlined in the Chemistry curriculum is designed to present to the student a very broad training in Chemistry and in related fields. In this way it is definitely contrasted with that training offered to the chemical engineer. Chemistry graduates will be prepared to undertake the great variety of problems which are the normal duties of a chemist.

The second aim is to develop a research attitude in the student as a preparation for graduate study and ultimately for research, industrial, and teaching positions in the chemical profession. Superior students should give serious consideration to the additional advantages offered by graduate study in chemistry.

Chemists who have graduated from this Department are now holding responsible positions as paint chemist, rubber chemist, consulting chemist, research chemist, university and secondary-school teachers of chemistry, development chemist, and chemist in United States and state experimental laboratories.

The student must register for all courses listed for each semester. Exceptional cases, the head of the department may approve substitution for a recommended elective. Non-elective courses *must be passed* before the student is eligible for graduation.

The student must elect eighteen additional credit hours in the humanities, which may be interpreted as non-specialized courses other than the physical sciences. From the electives the student must select ten credit hours in sciences, two in English, and two in Public Speaking.

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 continue with graduate work to be prepared in this respect.

Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

FALL SEMESTER

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch	31	Micro Qual. Anal.	2	8	5
Gm	19	German for Chemists	3	0	3
Ms	7	Diff. Calculus	5	0	5
Mt	3	Military	2	1	2
Sh	1	Public Speaking	2	0	2
*Ps	17	Intermediate Physics	3	0	3
Pt	3	Phy. Education	0	2	0

SPRING SEMESTER

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch	22	Intro. Theoret. Chem.	3	0	3
Ch	40	Quant. Anal.	1	8	4
Gm	20	German for Chemists	3	0	3
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
*Ps	18	Intermediate Physics	3	0	3
Pt	4	Phy. Education	0	2	0

Junior Year

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch	51	Organic Chem.	3	4	5
Ch	71	Phys. Chem.	2	6	5
*Eh	9	Modern Lit.	2	0	2
*Gm	21	German for Chemists	3	0	3
		Elective Humanities	—	—	—

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ch	52	Organic Chem.	3	4	5
Ch	64	Intermed. Quant. Anal.	1	8	4
Ch	72	Phys. Chem.	2	6	5
Eh	6	Technical Comp.	2	0	2
*Gm	22	German for Chemists	3	0	3
		Elective Humanities	—	—	—

* Recommended Elective.

Senior Year

FALL SEMESTER

Subject			Hours Rec.	Lab. or Comp.	Cr.
*Ch	49	Thesis	Arr		1-3
*Ch	73	Chem. Microscopy	0	6	2
Ch	85	Journal Seminar	2	0	2
Ch	89	Organic Prep.	0	6	2
Ch	91	Intermed. Org. Chem.	3	0	3
		Electives	—	—	4-6

SPRING SEMESTER

Subject			Hours Rec.	Lab. or Comp.	Cr.
*Ch	50	Thesis	Arr		1-3
*Ch	54	Adv. Inorg. Chem.†	2	0	2
Ch	84	Metallurgy	3	0	3
Ch	90	Organic Analysis	0	6	2
Ch	92	Intermed. Org. Chem.	3	0	3
		Electives	—	—	6-8

† Alternates with Ch 56.

* Recommended Elective.

Civil Engineering Curriculum

The object of the curriculum in Civil Engineering is to give the student a thorough knowledge of the principles underlying the profession.

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 endeavor is made to impress upon the mind of the student that he must obtain experience and judgment, without which he can never become a successful engineer. Besides giving the student a technical training, an opportunity is offered for every student to form the basis of a liberal education.

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.

Through the courtesy of the Bangor Hydro-Electric Company, their plant at Stillwater has been made available to the University for experimentation and research. Those students selecting Option 1 will determine the efficiency and cost of operation of the plant. A study will be made of its

hydraulic design and structural features with a view to recommending improvements.

The facilities of the Maine State Highway Testing Laboratory are available for experimentation and research by students in the Civil Engineering Department. All students electing Option 2 make a complete design and cost estimate of a section of highway surveyed during Summer Camp.

Those students electing Option 3 cooperate with the State Public Health Department in making a sanitary survey of a nearby watershed which is a present or prospective source of public water supply. They also make a survey of the sanitary conditions in a nearby town.

Each student is urged to select a thesis, the treatment of which helps to develop initiative and original thought, besides treating in a comprehensive manner some subject in which he is most interested.

All sophomore Civil Engineering students are required to attend Summer Camp from June 10 to July 19, 1941.

Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

FALL SEMESTER

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce	1	Plane Surveying	2	0	2
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
Sh	1	Public Speaking	2	0	2
Pt	3	Phy. Education	0	2	0
		Elective	—	—	—

SPRING SEMESTER

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce	10	Curves and Earthwork	3	0	3
Ce	16	Geology	2	1½	2½
Ms	8	Int. Calculus	5	0	5
Mt	4	Military	2	1	2
Sh	6	Persuasive Speech	2	0	2
Ps	22	Mechanics & Heat Lab.	0	4	2
Pt	4	Phy. Education	0	2	0
		Elective	—	—	—

Summer Camp

	Subject	Hours. Cr.
Ce 11s	Highway & Railroad Surveys	3
Ce 23s	Geodetic & Topographic Surveying	2
Ce 31s	Hydrographic Surveying	1

Junior Year

FALL SEMESTER

		Subject	Hours Rec.	Lab. or Comp.	Cr.
As	11	Pract. Astron.	2	1	2½
Ce	25	Eng. Geology	2	1½	2½
Ce	29	Highway Const.	2	0	2
Ce	33	San. Eng. & Water Supply	3	0	3
Eh	5	Tech. Comp.	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	—	—	—

Senior Year

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce	57	Conc. Structures & Foundations	5	0	5
Ce	59	Drafting	0	9	3
Ee	35	D. C. Machy.	2	0	2
Me	39	Mech. Lab.	0	3	1½
Me	43	Heat Eng.	3	0	3
		Highway Option			
Ce	53	Hyd. Eng.	0	2	1
Ce	63	Highway Econ.	3	0	3
		Hydraulic Option			
Ce	51	Hyd. Eng.	0	4	2
Ce	55	Hydrology	2	0	2
		Sanitary Option			
By	3	Bacteriology	2	0	2
Ce	71	Sanitary Eng.	2	0	2

		Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce	60	Drafting	0	6	2
Ee	36	Alt. Currents	2	0	2
Ee	38	Elec. Lab.	0	3	1½
Ba	16	Business Law	3	0	3
		Highway Option			
Ce	68	Highway Design	0	4	2
Ce	72	Highway Eng.	2	0	2
		Hydraulic Option			
Ce	56	Hyd. Eng.	0	4	2
Me	78	Hyd. Lab.	0	3	1½
		Sanitary Option			
By	2	Bacteriology	0	6	3
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 the 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 form an important division of the work offered by the Department. These courses 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, drawing, and allied engineering courses, together with the humanistic studies enumerated below.

Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

FALL SEMESTER						SPRING SEMESTER					
Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ee	1	Ele. Elec. Eng.	2	5	4	Ee	2	Ele. Elec. Eng.	2	5	4
Es	1b	Prin. of Econ.	2	0	2	Ce	2	Plane Surveying	1⅓	⅓	2
Md	3	Des. Geometry	0	6	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
Sh	1	Public Speaking	2	0	2	Sh	6	Persuasive Speech	2	0	2
Py	1	General Psychology	2	2	3	Py	2	General Psychology	2	2	3
Pt	3	Phy. Education	0	2	0	Pt	4	Phy. Education	0	2	0

Junior Year

FALL SEMESTER						SPRING SEMESTER					
Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ee	13	Electronics	2	3	3	Ee	16	El. Cir. & Mach.	3	3	4
Ee	15	El. Cir. & Mach.	3	0	3	Ee	18	Elec. Lab.	1	3	2½
Ee	17	Elec. Lab.	1	3	2½	Ee	22	Tel. Com.	3	0	3
Eh	5	Tech. Comp.	2	0	2	Ee	24	Tel. Lab.	0	3	1½
Me	27	Kinematics	3	0	3	Me	44	Heat Eng.	3	0	3
Mn	53	Mechanics	3	0	3	Mn	54	Mechanics	3	0	3
		Options (One subject required)						Options (One subject required)			
Ba	51	Corp. Finance	3	0	3	Ba	54	Investments	3	0	3
Ms	57	Eng. Math.	3	0	3	Ms	58	Eng. Math.	3	0	3

Senior Year

Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ee	51	Alt. Cur. Appar.	4	3	5			Options (Six subjects required)			
Ee	75	Elec. Lab.	1	3	2½	Ee	10	Radio Operating	0	1½	½
		Options (Two subjects required)				Ee	50	Thesis	Arr.		1-3
Ee	49	Thesis	Arr.		1-3	Ee	56	Elec. Power Plants	3	0	3
Ee	61	Illum. Eng.	3	0	3	Ee	60	Adv. Elec. Mach	3	0	3
Ee	57	Elec. Power Transm.	2	3	3	Ee	64	Elect. Motive Power	3	0	3
Ee	81	Comm. Eng.	0	4	2	Ee	76	Elec. Lab.	1	3	2½
Ee	83	Comm. Lab.	0	3	1½	Ee	82	Comm. Eng.	0	4	2
Ee	85	Radio Eng.	2	2	3	Ee	86	Radio Eng.	3	0	3
Ee	87	Eng. Acoustics	2	0	2	Ee	88	Radio Lab.	0	3	1½
Ba	53	Money & Banking	3	0	3	Ba	16	Business Law	3	0	3
Me	41	Mechanical Lab.	0	3	1½	Me	84	Ind. Management	2	0	2

Engineering Physics

The aim of this curriculum is to provide a fundamental background in science for those students who expect to enter the field of industrial physics and also for those who wish to prepare themselves for careers in research. There has been a growing demand on the part of industry for men trained primarily in physics in an engineering atmosphere. It is recognized that undergraduate specialization in one or more of the well-defined engineering

fields is not a rigid requirement for success in industrial work. Certain students not only have an aptitude for but profit by an undergraduate curriculum developed around basic courses in physics, chemistry, and mathematics beyond those required by engineering curricula generally. Physical engineering is a name sometimes used to characterize this field.

The work of the first year being the same for all engineering students, it is not until the fall of the second year that the added emphasis upon physics is realized. After this a sufficient amount of chemistry and mathematics is included in the curriculum along with courses in advanced physics to develop a sound scientific background. An opportunity is also provided through required or elective courses to gain an insight into several fields of engineering so that the student develops in an engineering atmosphere; there is more emphasis, however, on science than on engineering.

This course also prepares a student for graduate work in physics, if he is interested in further developing himself along research lines.

Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

FALL SEMESTER						SPRING SEMESTER					
Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
*Es	1b	Prin. of Econ.	2	0	2	Ch	40a	Quant. Anal.	1	6	3
*Gm	19	German for Chemists	3	0	3	*Es	2b	Prin. of Econ.	2	0	2
Me	9	Machine Tool Lab.	0	4½	1½	*Gm	20	German for Chemists	3	0	3
Ms	7	Diff. Calculus	5	0	5	Me	10	Machine Tool Lab.	0	4½	1½
Mt	3	Military	2	1	2	Ms	8	Int. Calculus	5	0	5
Ps	17	Intermed. Physics	3	0	3	Mt	4	Military	2	1	2
Ps	19	Int. Lab. Phys.	0	2	1	Ps	18	Intermed. Phys.	3	0	3
Pt	3	Phys. Educ.	0	2	0	Ps	20	Int. Lab. Phys.	0	2	1
Sh	1	Pub. Speaking	2	0	2	Pt	4	Phy. Education	0	2	0
		Electives						Electives			
ChE	33	Elem. Stoich.	3	0	3	Ps	10	Meteorology	3	0	3
Md	3	Des. Geometry	0	6	2						

Junior Year

FALL SEMESTER

Subject			Hours Rec.	Lab. or Comp.	Cr.
*Ch	71	Phys. Chem.	2	6	5
		or			
Ee	1p	Els. Elec. Eng.	2	3	3
Eh	5	Tech. Comp.	2	0	2
*Gm	21	German for Chemists	3	0	3
Mn	53	Mechanics	3	0	3
Ms	57	Eng. Math.	3	0	3
Ps	23	Elec. Meas.	0	4	2
Ps	55	Elec. and Mag.	3	0	3
		Electives			
Me	21	Mats. of Eng.	2	0	2
Pa	65	Pulp Tech.	3	0	3
Py	1	Gen. Psychology	2	2	3
Zo	3	Animal Biology	2	4	4

SPRING SEMESTER

Subject			Hours Rec.	Lab. or Comp.	Cr.
*Ch	72a	Phys. Chem.	2	2	3
		or			
Ee	2p	Els. Elec. Eng.	2	3	3
		and			
Ch	22	Intro. Theor. Chem.	3	0	3
Eh	10	Modern Lit.	2	0	2
*Gm	22	German for Chemists	3	0	3
Mn	54	Mechanics	3	0	3
Ms	58	Eng. Math.	3	0	3
Ps	72	Optics	3	0	3
		Electives			
Ce	2	Plane Surveying	1⅔	⅓	2
Ce	16	Geology	2	1½	2½
Me	22	Els. of Mech. Eng.	2	3	3½
Pa	66	Paper Tech.	3	0	3
Ps	32	Photography	2	2	3
Py	2	Gen. Psychology	2	2	3
Zo	4	Animal Biology	2	4	4

Senior Year

FALL SEMESTER					SPRING SEMESTER				
Subject		Hours			Subject		Hours		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
*Ch 51a	Organic Chem.	3	0	3	Ee 36	Alt. Cur.	2	0	2
Ee 35	D. C. Mach.	2	0	2	Ps 50	Problems	Arr		1-3
Ps 69	Mod. Physics	3	0	3	Ps 62	Heat and Thermodynamics	3	0	3
Ps 81	Adv. Lab. Phys.	Arr		1-6	Ps 82	Adv. Lab. Phys.	Arr		1-3
	Electives			6		Electives			9
	Electives (In addition to the preceding)					Electives (In addition to the preceding)			
ChE 75	Els. of Chem. Eng.	3	0	3	Ce 26	Hydraulics	3	0	3
ChE 81	Chem. Eng. Lab.	1	4	3	ChE 76	Els. of Chem. Eng.	3	0	3
Ee 13	Electronics	2	3	3	ChE 82	Chem. Eng. Lab.	1	4	3
Ee 15	Elec. Cir. & Mach.	3	0	3	Ee 16	Elec. Cir. & Mach.	3	3	4
Me 33	Heat Engineering	3	0	3	Ee 22	Tel. Com.	3	0	3
Ps 59	Sound	3	0	3	Ee 38	Electrical Lab.	0	3	1½
					Me 34	Heat Engineering	3	0	3
					Ms 56	Vector Anal.	3	0	3
					Ps 58	Math. Physics	3	0	3
					Ps 66	Vac. Tubes and Thermionic Phenomena	3	0	3

* Substitutions may be made for courses marked * or they may be postponed with the approval of the department head. The student who may continue with graduate work is strongly advised to take at least one year of German. If Ee 1p, 2p is elected, it should be followed by Ee 15, 16 instead of Ee 35, 36.

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 qualitative and quantitative analysis, physical chemistry, chemical engineering, 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.

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.

Arrangements have been completed with the Department of Economics and with the Department of History and Government so that a student starting with certain electives in these departments in the sophomore year would be able to obtain a degree of Master of Science in Economics or Master of Science in History and Government by an additional fifth year of study, after obtaining the B.S. in General Engineering at the end of four years.

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 250.

Sophomore Year

FALL SEMESTER						SPRING SEMESTER					
Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ch	31	Micro-Qual. Anal.	2	8	5	Ce	2	Plane Sur. or	1⅔	⅓	2
Ee	1	Els. Elec. Eng.	2	5	4	Ce	16	Geology	2	1½	2½
Es	1a	Prin. of Econ.	3	0	3	Ch	40	Quant. Anal.	1	8	4
Md	3	Des. Geometry	0	6	2	Ee	2	Els. Elec. Eng.	2	5	4
Ms	7	Diff. Calculus	5	0	5	Es	2a	Prin. of Econ.	3	0	3
Mt	3	Military	2	1	2	Ms	8	Int. Calculus	5	0	5
Sh	1	Public Speaking	2	0	2	Mt	4	Military	2	1	2

Junior Year

FALL SEMESTER						SPRING SEMESTER					
Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ba	9	Accounting	—	—	3	Ba	10	Accounting	—	—	3
Ch	71	Physical Chem.	2	6	5	Ce	26	Hydraulics	3	0	3
Ee	13	Electronics	2	3	3	Ch	72	Physical Chem.	2	6	5
Ee	15	El. Cir. & Mach.	3	0	3	Ee	16	El. Cir. & Mach.	3	3	4
Ee	17	Elec. Lab.	1	3	2½	Ee	18	Elec. Lab.	1	3	2½
Me	21	Mats. of Eng.	2	0	2	Mn	54	Mechanics	3	0	3
Mn	53	Mechanics	3	0	3						

Senior Year

Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Ba	51	Corporation Fin.	3	0	3	Ce	52	Theory & Des. of Steel Struc.	5	0	5
Eh	9	Mod. Lit.	2	0	2	Eh	6	Technical Comp.	2	0	2
Me	33	Heat Eng.	3	0	3	Me	34	Heat Eng.	3	0	3
Me	37	Mech. Lab.	0	3	1½	Me	38	Mech. Lab.	0	3	1½
		Electives			8½			Electives			6½

Mechanical Engineering Curriculum

The field of mechanical engineering embraces all work involving the design, construction, installation, and operation of machinery for manufacturing, transportation, power generation, heating and air conditioning, and refrigeration; the superintendence or management of factories, power plants, and motive power.

The Mechanical Engineering curriculum is arranged to provide a sufficient foundation of basic science applied to engineering methods and techniques to prepare the graduate as well as possible in four years' time to enter any of these lines of work.

Specialization in particular fields of mechanical engineering is not undertaken. 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, recitations, and computation periods. Numerous problems are assigned for work outside the classroom to make sure the student can apply the principles learned.

Laboratory courses illustrate the practical application of theory and subject matter learned in the recitation work and also develop initiative and resourcefulness as well as the technique of testing equipment. 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.

The engineer must acquire an understanding of the influences of his profession on social institutions and traditions. To this end the curriculum requires the student to register for courses in the College of Arts and Sciences as indicated below.

Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

FALL SEMESTER						SPRING SEMESTER					
		Subject	Hours					Subject	Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Es	1b	Prin. of Econ.	2	0	2	Es	2b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2	Md	4	Adv. Mach. Drafting	0	6	2
Me	1	Materials Lab.	0	6	2	Me	2	Pattern Work	0	6	2
Me	3	Pattern Work	0	6	2	Me	4	Materials Lab.	0	6	2
Me	21	Materials of Eng.	2	0	2	Me	22	Els. Mech. Eng.	2	3	3½
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
Sh	1	Public Speaking	2	0	2	Sh	6	Persuasive Speech	2	0	2
Ps	21	Mech. & Heat Lab.	0	4	2						
Pt	3	Phy. Education	0	2	0	Pt	4	Phy. Education	0	2	0

Junior Year

FALL SEMESTER

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Es 33	Labor Problems or Option	3	0	3
Me 7	Mach. Tool Lab.	0	6	2
Me 23	Kinematics	3	3	4
Me 33	Heat Eng.	3	0	3
Me 37	Mech. Lab.	0	3	1½
Mn 51	Mechanics	5	0	5

SPRING SEMESTER

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Eh 6	Tech. Comp.	2	0	2
Me 8	Mach. Tool. Lab.	0	6	2
Me 24	Machine Design	2	3	3
Me 34	Heat Eng	3	0	3
Me 38	Mech. Lab.	0	3	1½
Me 46	Heat Power	3	0	3
Mn 52	Mechanics	5	0	5

Senior Year

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce 35	Hydraulics	2	0	2
Ee 35	D. C. Machy.	2	0	2
Me 71	Mech. Lab.	0	3	1½
Me 81	Heat Eng.	2	3	3
Me 87	Machine Design	1	3	2
Me 91	Heat & Air Conditioning	3	0	3
Me 93	Gas Engines	3	0	3
Py 3	App. Psychol. (or Option)	3	0	3

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ee 36	Alt. Currents	2	0	2
Ee 38	Elec. Lab.	0	3	1½
Me 50	Thesis (or Option)	Arr		3
Me 72	Mech. Lab.	0	3	1½
Me 84	Ind. Managemnt	2	0	2
Me 86	Power Plants	3	0	3
Me 88	Dynamics of Machines	2	0	2
	Options			
Me 92	Aerodynamics	3	0	3
Me 94	Hydraulic Machinery	3	0	3
Me 96	Seminar	1	0	1

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.

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Laboratory courses illustrate the practical application of theory and subject matter learned in the recitation work and also develop initiative and resourcefulness as well as the technique of testing equipment. 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.

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Freshman Year

Common to all engineering courses and Chemistry. See page 250.

Sophomore Year

FALL SEMESTER						SPRING SEMESTER					
Subject			Hours			Subject			Hours		
			Rec.	Lab. or Comp.	Cr.				Rec.	Lab. or Comp.	Cr.
Es	1b	Prin. of Econ.	2	0	2	Es	2b	Prin. of Econ.	2	0	2
Md	3	Des. Geometry	0	6	2	Md	4	Adv. Mach. Drafting	0	6	2
Me	1	Materials Lab.	0	6	2	Me	2	Pattern Work	0	6	2
Me	3	Pattern Work	0	6	2	Me	4	Materials Lab.	0	6	2
Me	21	Materials of Eng.	2	0	2	Me	22	Els. Mech. Eng.	2	3	3½
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
Sh	1	Public Speaking	2	0	2	Sh	6	Persuasive Speech	2	0	2
Ps	21	Mech. & Heat Lab.	0	4	2						
Pt	3	Phy. Education	0	2	0	Pt	4	Phy. Education	0	2	0

Junior Year

FALL SEMESTER

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Es 33	Labor Problems or Option	3	0	3
Me 7	Mach. Tool Lab.	0	6	2
Me 23	Kinematics	3	3	4
Me 33	Heat Eng.	3	0	3
Me 37	Mech. Lab.	0	3	1½
Mn 51	Mechanics	5	0	5

SPRING SEMESTER

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Eh 6	Tech. Comp.	2	0	2
Me 8	Mach. Tool. Lab.	0	6	2
Me 34	Machine Design	2	3	3
Me 34	Heat Eng.	3	0	3
Me 38	Mech. Lab.	0	3	1½
Me 46	Heat Power	3	0	3
Mn 52	Mechanics	5	0	5

Senior Year

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ce 35	Hydraulics	2	0	2
Ee 35	D. C. Machy.	2	0	2
Me 71	Mech. Lab.	0	3	1½
Me 81	Heat Eng.	2	3	3
Me 87	Machine Design	1	3	2
Me 91	Heat & Air Conditioning	3	0	3
Me 93	Gas Engines	3	0	3
Py 3	App. Psychol. (or Option)	3	0	3

	Subject	Hours Rec.	Lab. or Comp.	Cr.
Ee 36	Alt. Currents	2	0	2
Ee 38	Elec. Lab.	0	3	1½
Me 50	Thesis (or Option)		Arr	3
Me 72	Mech. Lab.	0	3	1½
Me 84	Ind. Managemnt	2	0	2
Me 86	Power Plants	3	0	3
Me 88	Dynamics of Machines	2	0	2
	Options			
Me 92	Aerodynamics	3	0	3
Me 94	Hydraulic Machinery	3	0	3
Me 96	Seminar	1	0	1

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.

A course given in the first semester and duplicated in the second semester is designated by two numbers, the second of which is in parenthesis.

Two-semester courses which may be taken either semester are designated with a period between the two numbers (e.g., 1. 2); if the first semester must be taken before the second can be taken, a semicolon is used (e.g.,1; 2); if both semesters must be taken to obtain credit, a dash is used (e.g., 1-2).

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.

CHEMISTRY AND CHEMICAL ENGINEERING

PROFESSORS BRADT, BRANN, BRAUTLECHT, AND BRAY; ASSOCIATE PROFESSORS JENNESS, OTTO†, AND NOLAN; ASSISTANT PROFESSORS CAULFIELD, DOUGLASS; MR. BOGAN*; MR. TOMLIN; MR. MARTIN; MR. BREWER

Courses in Chemistry

1; 2. General Chemistry.—The general principles of the science and the elements of qualitative analysis. "C" grade is required of all major students. Classroom, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* MR. TOMLIN

3; 4. General Chemistry.—For Agriculture students only. The general principles of the science and elements of qualitative analysis. Classroom, *two hours a week;* laboratory, including recitations, *four hours a week.* One breakage card. *Four credit hours.* MR. MARTIN

5. Inorganic Chemistry.—For Home Economics students only. Inorganic principles. Classroom, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* MR. BOGAN

6. Descriptive Chemistry.—A non-professional course. Designed for Arts and Sciences students who will not continue in the field of chemis-

† On leave of absence 1940-1941,

* On leave of absence, Spring 1941

try. Not acceptable as prerequisite for any chemistry course. Lectures, *three hours a week* except that on alternate weeks one lecture is replaced by three hours of laboratory. One breakage card. *Three credit hours.*

MR. BOGAN

22. Introductory Theoretical Chemistry.—Introductory course in the fundamental principles of chemistry. Prerequisite, Course 1, 2. Classroom, *three hours a week. Three credit hours.* MR. BOGAN

31. Micro-Qualitative Analysis.—Fundamental principles of analysis as applied to the common cations and anions. Microtechnique. Prerequisite, Course 1, 2. (Chemical Engineering students may take this course under the heading of 31a with *three hours* laboratory for *three credit hours.*) Lectures and recitations, *two hours a week;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* MR. BREWER

40. Quantitative Analysis.—Fundamental principles of gravimetric, volumetric, and electrolytic methods. Prerequisite, Course 2. (Engineering Physics students may take this course under the heading of 40a, with *one* recitation and *six hours* of laboratory for *three credit hours.*) Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. BREWER

44. Organic Chemistry.—For Civil Engineering students taking the Sanitary Engineering option. Chemistry of the decomposition of starches, fats and proteins. Prerequisite, Course 1, 2. Lectures and recitations, *two hours a week. Two credit hours.* MR. DOUGLASS

46. Water Analysis.—Prerequisites, Course 1, 2 and parallel registration in Chemistry 44. Laboratory, *three hours a week.* One breakage card. *One credit hour.* MR. BOGAN

48. Mineralogy and Crystallography.—Given in 1941-42 and alternate years. Prerequisite, Chemistry 31. Classroom, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Three credit hours.*

MR. TREFETHEN

49, 50. Undergraduate Thesis.—Study of a special chemical problem in the laboratory. Original investigation. Open only to seniors. *Hours arranged. One to three credit hours.* THE CHEMICAL STAFF

51; 52. Organic Chemistry.—Introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 1, 2. Only suitable for graduate credit as a minor subject. (Engineering Physics students may take the fall semester course under the heading of 51a without laboratory

for *three credit hours.*) Classroom, *three hours a week;* laboratory, *four hours a week.* Two breakage cards. *Five credit hours.*

MR. BRAUTLECHT, MR. DOUGLASS

54. Advanced Inorganic Chemistry.—Prerequisite, Chemistry 71. Given in 1941-42 and alternate years. Lectures and recitations. *two hours a week. Two credit hours.* MR. BOGAN

55. Contemporary Chemistry.—Contemporary personalities and contributions in the field of chemistry. Prerequisite, Courses 52 and 72. Lecture, *one hour a week. One credit hour.* MR. BRANN

56. Structure of Matter.—Prerequisite, Course 71. Given in 1940-41 and alternate years. Lectures and recitations, *two hours a week. Two credit hours.* MR. BRANN

57 (58). Principles of Metallography.—Open only to exceptional students. Prerequisite, Course 72. Lectures and recitations, *two hours a week. Two credit hours.* MR. BRADT

61. Technical Analysis.—Analysis of technical products of interest to chemical engineers. Prerequisite, Course 40. Only suitable for graduate credit as a minor subject. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. BOGAN

64. Intermediate Quantitative Analysis.—Continuation of Course 40. For chemists. Prerequisite, Course 40. Only suitable for graduate credit as a minor subject. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. BOGAN

71; 72. Physical Chemistry.—Detailed study of fundamental principles of chemistry. Lecture, recitations, and laboratory. Prerequisites, Course 40 and Physics 1b, 2b. Calculus is very desirable. Only suitable for graduate credit as a minor subject. (Engineering Physics students may take the spring semester course under the heading of 72a with lecture and computation only for *three credit hours.*) Classroom, *two hours a week;* laboratory, *six hours a week.* One breakage card. *Five credit hours.*

MR. BRANN, MR. MARTIN

73; 74. Chemical Microscopy.—The technique of handling and analyzing samples of very small size. Prerequisite, Course 40. Laboratory (including recitations), *six hours a week.* One breakage card. *Two credit hours.* MR. BREWER

84. Metallurgy.—Ferrous and non-ferrous metals and alloys. Prerequisite, Course 71, 72. Classroom, *three hours a week. Three credit hours.* MR. MARTIN

85. Journal Seminar.—Study of chemical literature. Prerequisite, Course 52 and senior standing. Classroom, *two hours a week. Two credit hours.* MR. BRADT

89. Organic Preparations.—Prerequisite, Course 51 and 52. Only suitable for graduate credit as a minor subject. Laboratory, *six hours a week.* Two breakage cards. *Two credit hours.* MR. DOUGLASS

90. Organic Analysis.—Identification of pure organic compounds. Courses 40, 51, and 52 are prerequisites. Laboratory, *six hours a week.* Two breakage cards. *Two credit hours.* MR. DOUGLASS

91. 92. Intermediate Organic Chemistry.—Prerequisite, Course 51, 52. Recitation, *three hours a week. Three credit hours.* MR. BRAUTLECHT

95. Chemical Thermodynamics.—Prerequisite, Course 71, 72. Classroom, *three hours a week. Three credit hours.* MR. BRANN

96. Electrochemistry.—Theory and industrial applications. Prerequisite, Course 71, 72. Classroom, *three hours a week. Three credit hours.* MR. BRANN

97. 98. Methods of Teaching Chemistry.—For prospective teachers of chemistry. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or the equivalent. Classroom, *two hours a week. Two credit hours.* MR. BRAUTLECHT

101. 102. Investigations in Organic Chemistry.—*Time and credit, arranged.* THE CHEMISTRY STAFF

103. 104. Investigations in Physical Chemistry.—*Time and credit, arranged.* THE CHEMISTRY STAFF

105. 106. Investigations in Analytical Chemistry.—*Time and credit, arranged.* THE CHEMISTRY STAFF

107. 108. Investigations in Inorganic Chemistry.—*Time and credit, arranged.* THE CHEMISTRY STAFF

125. Graduate Thesis.—*Credit, arranged.* THE CHEMISTRY STAFF

151. 152. Advanced Organic Chemistry.—Special topics in organic chemistry including plastics. Prerequisite, Course 91, 92 or a B grade in Chemistry 51, 52. Lectures and recitations, *two hours a week. Two credit hours.* MR. DOUGLASS, MR. BRADT

174. Advanced Physical Chemistry.—Colloidal systems. Prerequisite, Course 71, 72. Given in 1940-41 and alternate years. Classroom, *two hours a week;* laboratory, *three hours a week.* One breakage card. *Three credit hours.* MR. MARTIN

193. Electrochemistry.—Advanced laboratory course. Prerequisite, Course 71, 72. Given in 1940-41 and alternate years. Laboratory, *six hours a week.* Two breakage cards. *Two credit hours.* MR. BRADT

Courses in Chemical Engineering

33. Elementary Stoichiometry.—Principles of heat and material balances. Prerequisites, Chemistry 1,2. Lecture and recitation, *three hours a week. Three credit hours.* MR. NOLAN

49. 50. Undergraduate Thesis.—Study of a special chemical engineering problem in the laboratory. Original investigation. Open only to seniors. *Time and credit, arranged.* THE CHEMICAL ENGINEERING STAFF

75; 76. Elements of Chemical Engineering.—Application of unit operations to engineering practice. Prerequisites, "C" grade in Course 33 for major students and simultaneous enrollment in Chemistry 71. Classroom, *three hours a week. Three credit hours.* MR. CAULFIELD

77. Inorganic Technology.—Quantitative application of principles of unit operations and physical chemistry to inorganic processes. Prerequisites, Course 76 and Chemistry 72. Lecture and recitation, *three hours a week. Three credit hours.* MR. JENNESS

78. Organic Technology.—Similar to Course 77. Prerequisites, Course 76, Chemistry 52 and 72. Lecture and recitation, *three hours a week. Three credit hours.* MR. BREWER

81. 82. Chemical Engineering Laboratory.—Practice in unit operations. Formal reports are required. Prerequisites, Course 76 and Chemistry 72. Classroom, *one hour a week;* laboratory, *four hours a week.* Two breakage cards. *Three credit hours.* MR. JENNESS

84. Unit Processes.—The quantitative application of unit operations as used in process work. Prerequisite, Course 81. Classroom, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Three credit hours.* MR. CAULFIELD AND STAFF

87. 88. Chemical Engineering Practice.—Group investigations of the operation of equipment in neighboring industrial plants. Open only to Chemical Engineering students in the senior and graduate years. *Time arranged.* One breakage card. *One to three credit hours.* MR. NOLAN

109. 110. Investigations and Thesis in Chemical Engineering.—Open only to graduate students. *Time and credit, arranged.*
THE CHEMICAL ENGINEERING STAFF

125. Graduate Thesis.—*Credit, arranged.*

THE CHEMICAL ENGINEERING STAFF

175. 176. Chemical Engineering Plant Design.—Design of a plant, including selection of equipment, plant layout and cost analysis. Prerequisite, Course 82. Classroom, *three hours a week. Three credit hours.*

MR. NOLAN

178. Chemical Engineering Thermodynamics.—Prerequisites, Course 76 and Chemistry 72. Classroom, *three hours a week. Three credit hours.*

MR. JENNESS

Courses in Pulp and Paper Technology

PROFESSOR BRAY; ASSISTANT PROFESSOR CAULFIELD

49. 50. Undergraduate Thesis.—Study of a special problem in the laboratory. Original investigations. Open only to seniors. *Time and credit, arranged.* MR. CAULFIELD AND STAFF

65. Pulp Technology.—Methods of manufacturing of wood pulps. Prerequisites, Chemistry 31a and 40 and simultaneous registration in Chemistry 71. Classroom, *three hours a week. Three credit hours.* MR. BRAY

66. Paper Technology.—Processes for the manufacture of paper. Prerequisite, Course 65. Classroom, *three hours a week. Three credit hours.* MR. BRAY

67. Pulp Manufacture.—Small scale production of wood pulps. Prerequisite, Course 65. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.* MR. BRAY, MR. CAULFIELD

68. Paper Manufacture.—Small scale production of papers. Prerequisite, Course 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.* MR. BRAY

82. Pulp Coloring and Bleaching.—Prerequisites, Courses 65 and 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.* MR. BRAY

83. Chemical Engineering of Pulp and Paper Manufacture.—Prerequisites, Chemistry 72 and Chemical Engineering 76. Recitation and lecture, *three hours a week. Three credit hours.* MR. CAULFIELD

86. Pulp Testing and Analysis.—Prerequisite, Course 65. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.*

MR. BRAY

87. Paper Testing and Analysis.—A laboratory course involving physical, microscopical and chemical testing of various kinds of papers. Prerequisites, Courses 65 and 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.* MR. BRAY

89. Pulp and Paper Practice.—Investigations of the operation of equipment of pulp and paper plants. Prerequisites, Course 65 and 66 and Chemical Engineering 75 and 76. *Time, arranged. Three credit hours.* MR. BRAY

105. 106. Investigations in Pulp and Paper Technology. MR. CAULFIELD AND STAFF

125. Graduate Thesis.—*Credit, arranged.* MR. CAULFIELD AND STAFF

Summer Mill Practice

40s. Summer Mill Practice.—Six weeks in paper-mill work is offered through the courtesy of the International Paper Company, which will coordinate the work of the various departments of the mill. Open only to students who have completed the sophomore year in Chemical Engineering, Pulp and Paper Division, and is required of them at that time. Prerequisites, Chemistry 31a, 40 and Chemical Engineering 33. *Time, arranged. Three credit hours.* MILL STAFF AND MR. BRAY

All Chemistry, Chemical Engineering, and Pulp and Paper Technology Curricula

Students desiring to elect any course may do so only with approval of the major instructor. Such free electives will be limited in number. The student must register for all courses listed for each semester, unless in exceptional circumstances he is permitted to substitute an approved elective for a course printed in bold face type. Courses in this group not in bold face type must be passed before he is eligible for graduation.

The student must elect sufficient hours to bring his total to that required by the College, namely, 143 exclusive of Military.

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.

It is expected that students majoring in the Department of Chemistry and Chemical Engineering will maintain work of "C" quality in all technical courses.

For Chemistry, Chemical Engineering, and Pulp and Paper Technology courses in the Summer Session, see the Summer Session Bulletin.

For courses in biochemistry, see the description of courses given by the Department of Bacteriology and Biochemistry.

For requirements leading to the degree of Bachelor of Arts in Chemistry, see section devoted to the College of Arts and Sciences.

CIVIL ENGINEERING

PROFESSORS EVANS AND LEAVITT; ASSOCIATE PROFESSOR LYON; ASSISTANT PROFESSORS TREFETHEN AND BENNETT; MR. RYCKMAN; MR. TAYLOR

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, *two hours a week. Two credit hours.* MR. TAYLOR

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. TAYLOR

3. Field Work and Plotting.—This course consists of practice in the use of the 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. TAYLOR, MR. RYCKMAN, MR. LYON

4. Surveying.—The historical background of surveying, the legal principles involved when surveys and resurveys are made, and the common methods employed will be emphasized. Not open to students who have had other surveying courses. Classroom, *two hours a week;* field and office, *three hours a week. Three credit hours.* MR. TAYLOR

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. TAYLOR

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 during first twelve weeks;* field work, *six hours a week during the last six weeks. Two credit hours.* MR. LYON

10. Curves and Earthwork.—A course of recitations and lectures investigating the geometry of simple, compound, and reverse circular curves, transition curves, vertical curves, and earthwork. Prerequisites, Courses 1 and 3. Classroom, *three hours a week. Three credit hours.* MR. LYON

12. Economic Geography.—Deals with the principles of geography, especially applied to the common economic products, treating their distribution, characteristics, and uses. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

13. Physical Geology.—Introduction to general dynamical geology; it covers the materials, agents, and processes of geology. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

14. Introduction to Regional Geography.—A survey course designed to give a general understanding of the natural and cultural aspects of the major geographical regions of the world. To be given in 1940-41 and alternate years. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

16. Geology.—Introduction to geological materials, agents, and processes of particular interest to the engineer. Classroom, *two hours a week;* laboratory, *three hours a week during last half semester. Two and one-half credit hours.* MR. TREFETHEN

17. Economic Geology.—Introduction to ore deposits; their characteristics, distribution, production, and uses of both metals and non-metals. Classroom, *two hours a week. Two credit hours.* MR. TREFETHEN

18. Historical Geology.—A review of the earth's history; its past land distribution, mountain revolutions, rock formations, climates and living forms. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

19. Advanced General Geology.—A study of the common rocks and minerals and geologic processes. Designed for students who are considering further work in geology and students who expect to teach science in the high schools. Prerequisite, Course 13 or Course 16. Classroom, *two hours a week;* laboratory, *two hours a week. Three credit hours.*

MR. TREFETHEN

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. RYCKMAN, MR. TAYLOR

25. Engineering Geology.—Characteristics of building stones and other earth features with which the civil engineer deals. Prerequisite, Course 16. Classroom, *two hours a week;* laboratory,*three hours a week during first half semester. Two and one-half credit hours.* MR. TREFETHEN

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

27. Soil Testing.—A laboratory course in soil testing as applied to soil mechanics. The principles of the tests and interpretation of test results are explained and discussed in the classroom. Prerequisite, Mechanics 51. Recitation, *one hour a week;* laboratory, *three hours a week. Two credit hours.*

MR. BENNETT

28. Soil Stabilization.—A study and practice of the common methods of soil stabilization. Prerequisite, Course 27. Lecture and laboratory, *four hours a week. Two credit hours.* MR. BENNETT

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 10. Recitation, *two hours a week. Two credit hours.*

MR. LEAVITT

33. Sanitary Engineering and Water Supply.—An introductory course outlining the engineering problems which are involved in designing and operating municipal water supply, and sewage disposal systems. Classroom, *three hours a week. Three credit hours.* MR. RYCKMAN

34. Sanitary Engineering.—Functional design and study of water purification plants in small communities; functional design of sewage treat-

ment plants; and a brief study of stream pollution. Laboratory, *six hours a week. Two credit hours.* MR. RYCKMAN

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.—The study of and report upon some original investigation or design. See regulations regarding degrees. *Time to be arranged. Two or three credit hours.* MR. EVANS AND STAFF

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 31s. 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. EVANS

60. Drafting.—The structures designed in Course 52 are detailed in this course. *Six hours a week. Two credit hours.* MR. EVANS

61. Foundations.—Recitations, lectures, problems, and outside readings dealing with ordinary and special foundation problems. Classroom, *two hours a week. Two credit hours.* MR. BENNETT

62. Soil Mechanics.—A study of the fundamental principles underlying Soil Mechanics with application to practical foundation problems. Prerequisite, Mechanics 51 or 53, also Course 27. Classroom, *three hours a week. Three 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

65. Advanced Soil Testing.—An advanced laboratory course in soil mechanics dealing with the structural properties of soils as applied to the design of foundations, earth dams, highways and soil stabilization. Prerequisites, Course Ce 20, also Mn 51 and 52. Laboratory, *nine hours a week. Three credit hours.* MR. BENNETT

68. Highway Design.—Drawing room study of highway location and relocation, including plans of proposed improvement and construction of about two 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. Sanitary Engineering.—The theory of design of water-treatment plants and sewage disposal works which was studied in previous courses is applied to practical municipal problems. Prerequisite, Course 33. Classroom, *two hours a week. Two credit hours.* MR. RYCKMAN

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 33. Classroom, *two hours a week. Two credit hours.* MR. RYCKMAN

79. Structural Geology.—Principles and characteristics of earth

structures. Prerequisite, Course 25. Given in 1941-42 and alternate years. Classroom, *two hours a week. Two credit hours.* MR. TREFETHEN

82. Advanced Engineering Geology.—Application of geology to engineering construction. Prerequisite, Course 25. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

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

125. Graduate Thesis.—The study of and report upon some original investigation or design. *Time to be arranged. Credit to be arranged.* MR. EVANS AND STAFF

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 calculation of earthwork. 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.*

23s. 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 old field observations. Prerequisites, Courses 1, 3, and 23. *Two credit hours.*

31s. 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 part of the 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

PROFESSORS BARROWS, HILL, CREAMER, AND CLOKE; ASSISTANT PROFESSORS CRABTREE AND BLISS; MR. WILSON

1; 2. Elements of Electrical Engineering.—Fundamental laws and principles of electricity; series and parallel circuits; the magnetic circuit; the dielectric circuit; conduction through electrolytes and gases; thermionics; instrument calibration; electrical measurements. Recitations and problems. Prerequisite, Physics 1, 2 and Mathematics 1, 3. Classroom, *two hours a week;* computation, *three hours a week;* laboratory, *two hours a week. Four credit hours.* MR. BARROWS, MR. CREAMER, MR. BLISS, MR. WILSON

1p; 2p. Elements of Electrical Engineering.—Same as Course 1, 2 except that laboratory is omitted. (For students majoring in Engineering Physics who do not wish to take laboratory.) Classroom, *two hours a week;* computation, *three hours a week. Three credit hours.*

5a (6a). Household Equipment.—Physical principle, 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 required of senior Home Economics students. Lecture, *one hour a week;* recitation, *one hour a week;* laboratory, *two hours a week. Three credit hours.* MR. BLISS

9 (10). Radio Operating.—Instruction and practice in transmission and reception of international code signals. Study of the regulations of the Federal Communications Commission. Operation of W1YA. Offered for credit to majors in Electrical Engineering only. Laboratory, *one and one-half hours a week. One-half credit hour.* 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 measurements; industrial applications. Prerequisite, Course 2. Course 15 is required concurrently. Classroom, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. BLISS

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. 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; carrier current systems; traffic studies; mathematics of the infinite line. 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

31. Electrical Circuits.—Direct current circuits; magnetic circuits; induced and generated electromotive force; elementary theory of electron tubes and circuits; alternating current circuits. Lectures, recitations, and problems. Classroom, *two hours a week. Two credit hours.*

MR. BARROWS, MR. CRABTREE

32. Electrical Machinery.—Study of principles and operating characteristics of direct current machines, transformers, alternators, induction and synchronous motors. Lectures, recitations, and problems. Prerequisite, Course 31. Classroom, *two hours a week. Two credit hours.*

MR. BARROWS, MR. CRABTREE

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. CRABTREE, MR. WILSON

36. Alternating Currents.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. Prerequisite, Course 35. Classroom, *two hours a week. Two credit hours.* MR. CRABTREE, MR. WILSON

38. Electrical Laboratory.—This course is based on Courses 35 and 36. Operations of direct-current and alternate-current generators and motors; electrical power measurements. Prerequisite, Course 32 or 35; Course 36 concurrent. Laboratory, *three hours a week. One and one-half credit hours.* MR. CRABTREE, MR. WILSON

49, 50. Thesis.—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. CLOKE, MR. HILL, MR. CREAMER

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

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, *four hours a week;* computation, *three 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

57. Electrical Power Transmission.—Theory, design, and calculation of power-transmission systems. Problems of inductive interference, insulation, protection, stability, and control. Lectures, recitations, and problems. Prerequisite, Course 16. Classroom, *two hours a week;* supervised computation, *three hours a week. Three credit hours.* MR. HILL

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 (62). 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

64. Electric Motive Power.—A study of the engineering and economic problems encountered in the adaptation of electric drive to present-day requirements in railroad, highway, and marine transportation, heavy-duty mill service, and other exacting motor applications. Lectures, recitations, and problems. Prerequisite, Course 51. 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. CRABTREE

81; 82. Communication Engineering.—Network theory; transformers; attenuators; filters; equalizers; transmission losses; application of hyperbolic functions to transmission line problems; cable and open wire lines; special transmission circuits. Lectures and problems. Prerequisite, Course 22. Computation, *four hours a week. Two credit hours each semester.* MR. CREAMER

83. Communication Laboratory.—Advanced measurements on communication apparatus; repeaters; carrier-current systems; audio-frequency amplifiers; filters; transformers; loud speakers and microphones. Prerequisite, Course 22. Course 81 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. BLISS

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; comparison of methods of transmission and reception; amplitude, frequency, and phase modulation; elements of television. Lectures, recitations, and design problems. Prerequisite, Course 22. Fall semester: classroom, *two hours a week;* computation, alternating with laboratory, *two hours a week. Three 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, sound recording, 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 radiophone 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

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 57. Classroom, *two or three hours a week. Two or three credit hours.* MR. HILL

165; 166. 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 or three hours a week. Two or three 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

186. High Frequency Phenomena.—Advanced analytical treatment of topics considered in Course 85, 86 including circuits, apparatus, and radiation phenomena. For graduate students having a knowledge of differen-

tial equations and of vector analysis. Prerequisite, Courses 85 and 86. Classroom, *two hours a week. Two credit hours.* MR. CREAMER

187. Radio Seminar.—A thorough, critical study of a limited number of important current developments in radio engineering. For graduate students who have specialized in electrical communication. Prerequisite, Course 85, 86. 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 week. One and one-half credit hours.* MR. CREAMER

191; 192. 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

ENGINEERING DRAFTING

PROFESSOR KENT; ASSISTANT PROFESSOR SAWYER; MR. MCNEARY

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. SAWYER, MR. MCNEARY

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, tracings, and blueprinting. Drawing room, *four hours a week. Two credit hours.* MR. KENT, MR. SAWYER, MR. MCNEARY

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. MCNEARY

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. SAWYER, MR. MCNEARY

4. Advanced Machine Drafting.—Instruction and practice in drafting room methods and procedure; continuing the study of technical sketching and of making working drawings of machine parts. Prerequisite, Course 2. Drawing room, *six hours a week. Two credit hours.*

MR. KENT, MR. SAWYER, MR. MCNEARY

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, *four hours a week. Two credit hours.* MR. KENT

54a. Shades and Shadows.—A study of the principles of the casting of shadows on and by architectural objects. A half-semester course. Prerequisite, Course 1. Drafting room, *four hours a week. One credit hour.*

MR. KENT

54b. Perspective.—A study of the principles of architectural perspective and the making of the same. A half-semester course. Prerequisite, Course 1. Drafting room, *four hours a week. One credit hour.* MR. KENT

ENGINEERING PHYSICS

See course descriptions under Physics Department, College of Arts and Sciences, page 214.

LECTURE COURSES

Ge 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 Monday morning at 11:00 throughout the first semester. *One-half credit hour.* MR. CLOKE

Ge 6. Orientation.—A general lecture course given Monday morning at 11:00 throughout the second semester, consisting of addresses by engineeds and business and professional men for Technology freshmen. Open to the public. *One-half credit hour.* MR. CLOKE

MECHANICAL ENGINEERING

PROFESSOR WATSON; ASSOCIATE PROFESSOR PRAGEMAN; ASSISTANT PROFESSORS SPARROW AND BROWN; MR. DAVEE;[1] MR. BRIDGES;[2] MR. VANNAH;[3] MR. PERKINS; MR. LEKBERG; MR. OSGOOD

1. 4. Materials Laboratory.—Practical foundry and metal work with hand and machine tools; welding, both electric and acetylene. Lectures and demonstrations covering basic foundry practice, including operation of cupolas, etc., basic fundamentals relative to drawing, upsetting, forming, welding, and tempering of various metals. Laboratory work, *six hours a week. Two credit hours.* MR. OSGOOD

2. 3. 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, which coordinates this course with foundry practice. Lectures and demonstration. Laboratory work, *six hours a week. Two credit hours.*

MR. BRIDGES, MR. VANNAH

7; 8. Machine Tool Laboratory.—A small piece of machinery 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. Stress is laid upon the selection of feeds, speeds, and depths of cut for various machine processes on ferrous and non-ferrous metals. Laboratory work, *six hours a week. Two credit hours.*

MR. PERKINS

9; 10. Machine Tool Laboratory.—A shorter course than 7, 8. Laboratory work, *four and one-half hours a week. One and one-half credit hours.* MR. PERKINS

21. Materials of Engineering.—Properties of the metals; production from ores; crystalline structure; heat treatment; methods of testing. Classroom, *two hours a week. Two credit hours.* MR. LEKBERG, MR. OSGOOD

22. 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 relative to heat, power, work, mechanical energy, and electrical energy as used by

[1] On leave of absence 1940-1941.

[2] Appointment for fall semester, 1940-1941.

[3] Appointment for spring semester, 1940-1941.

mechanical engineers. Laboratory covers elementary experimental work such as calibration of instruments, use of steam and gas engine indicators, use of prony brakes, mechanical efficiency tests, etc. Classroom, *two hours a week;* laboratory, *three hours a week. Three and one-half credit hours.*

MR. LEKBERG, MR. OSGOOD, MR. BROWN, MR. VANNAH

23. *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. LEKBERG

24. *Machine Design.*—A study of the design of machines; proportioning of parts for strength, rigidity, etc. Prerequisites, Course 23 and Mechanics 51. Classroom, *two hours a week.* Computation, *three hours a week. Three credit hours.* MR. PRAGEMAN, MR. LEKBERG

27. *Kinematics.*—A shorter course than 23, arranged for electrical engineers. Recitations, *three hours a week. Three credit hours.*

MR. LEKBERG

33. *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 1b, 2b. Recitation, *three hours a week. Three credit hours.* MR. BROWN

34. *Heat Engineering.*—Simple and compound steam engines, flow of steam, air compressors; flow of air; refrigeration. Prerequisite, Course 33. Recitation, *three hours a week. Three credit hours.*

MR. BROWN, MR. VANNAH

37, 38. *Mechanical Laboratory.*—Tests of materials, heating value of liquid and gaseous fuels, steam calorimetry, thermal efficiency, economy, and heat balance test of steam engines, steam turbines, and gas engines. Prerequisite, Course 36. Laboratory, *three hours a week. One and one-half credit hours.* MR. BROWN, MR. SPARROW

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, MR. LEKBERG

41. Mechanical Laboratory.—A course arranged for seniors in Chemical and 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 33, given to chemical and electrical engineers. Prerequisites, Mathematics 8 and Physics 2. Recitation, *three hours a week. Three credit hours.* MR. SPARROW

46. Heat Power.—Fuels and combustion, steam and gas power-plant equipment; arrangement, operation, and efficiencies of various types of apparatus. Prerequisite, Course 33. *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. WATSON AND STAFF

71; 72. Mechanical Laboratory.—Tests of condensers, boilers, air-compressors, pumps, fans, hydraulic testing. Prerequisite, Course 38. Laboratory, *three hours a week. One and one-half credit hours.* MR. BROWN, 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

81. Heat Engineering.—A continuation of Courses 33 and 34, dealing with steam turbines; considerations affecting the design and efficiency of operation of the various types. Recitation, *two hours a week;* computation, *three hours a week. Three credit hours.* MR. WATSON

84. 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. Prerequisite, Economics 2b. Classroom, *two hours a week. Two credit hours.* MR. PRAGEMAN

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. WATSON

87. Machine Design.—A continuation of Course 24, including the execution of the design of some typical machines. Prerequisites, Course 23 and 24. Recitation, *one hour a week.* Computation, *three hours a week. Two credit hours.* MR. PRAGEMAN, MR. LEKBERG

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 23, 24 and 87. Recitation, *two hours a week. Two credit hours.*
MR. PRAGEMAN

91. Heating and Air-Conditioning.—Heat resistance of building materials, calculation of heat losses through various types of walls, windows, etc., heating systems, ventilating systems, humidification. Prerequisite, Course 34. Recitation, *three hours a week. Three credit hours.*
MR. WATSON, MR. PRAGEMAN

92. Aerodynamics.—Flow of an ideal fluid; application of dimensional analysis to engineering problems; Prandtl's wing theory; properties of airfoils; engine and propellor characteristics; airplane performance calculations; propellor theory; Reynolds number and compressibility effects. Prerequisites, Course Mn 52, Course Ce 35. Classroom, *three hours a week. Three credit hours.* MR. BROWN

93. Gas Engines.—Types, operation, fuels and combustion, carburetion, ignition, valves, cooling, governing, determination of cylinder sizes for given fuel and horsepower. Prerequisites, Courses 24 and 33. Classroom, *three hours a week. Three credit hours.* MR. WATSON, MR. BROWN

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 23. Recitation, *three hours a week. Three credit hours.* MR. PRAGEMAN

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

101, 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. WATSON

103. 104. Advanced Fluid Mechanics.—A more theoretical study of flow of gases, vapors, and fluids than in undergraduate courses. Theoretical study of the flow of ideal fluids around streamlined bodies; development of airfoil sections by conformal transformations; discontinuous flow of fluids; application of dimensional analysis; flow of viscous fluids; boundary layer theory. Classroom, *three hours a week. Three credit hours.* Mr. Brown

105. 106. Mechanical Vibrations.—Single degree of freedom system; free and forced vibrations; application to measuring instruments; systems with more than one degree of freedom; calculation of natural frequency of various objects; torsional vibrations in internal combustion engines and their dampers; self-excited vibrations. Classroom, *three hours a week. Three credit hours.* Mr. Brown

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, hydro-mechanics, etc. Recitation, *two hours a week. Two credit hours.*

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. As a rule, only juniors or seniors who have attained the standard of the Dean's List may be admitted, although inclusion in that list is not strictly 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. (This course is to be distinguished from the Junior Honors course of the College of Arts and Sciences.)

Gc 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 Honors Work. *Two credit hours.*

MILITARY SCIENCE AND TACTICS

Colonel Alcott; Lieutenant Colonel Haw; Captain Ingraham; First Lieutenant Lask; Second Lieutenant Hodges, Second Lieutenant Healy; Sergeant Harabosky, Sergeant Rinkaus, Sergeant Roy

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 of 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 companies and coast artillery batteries, including a band. The whole is organized into a battalion 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 and leather waist belts), arms, and equipment 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, citizens of the United States, 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 monetary clothing and subsistence allowances at a rate fixed by the Secretary of War.

A certain 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 and to better qualify them for their duties as citizens.

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; military discipline, courtesy and customs of service; military sanitation and first aid; military organization (General); organization of infantry; 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; combat principles of rifle squad and platoon in attack defense and security; leadership (continuation of first semester's work).

Advanced Course, Infantry

Junior Year, Course 5, 6. *Five hours a week, two credit hours a semester in the College of Agriculture, one and one-half credit hours a semester in the College of Arts and Sciences*

First Semester—Aerial photograph reading; machine guns; howitzer company weapons; pistol; administration; leadership (principles of and instructional methods in, 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); care and operation of motor vehicles.

Second Semester—Review of rifle marksmanship; 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); defense against chemical warfare.

Senior Year, Course 7, 8. *Five hours a week, two credit hours a semester*

First Semester—Military history and policy; military law I; military law II; leadership (principles of and instructional methods in, being a review of first year advanced training from the point of view of the leader and instructor); 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.

Second Semester—Combat principles (continuation of first semester); property, emergency procurement and funds; regulations of officers' reserve corps; leadership (continuation of work of first semester); tanks and mechanization; anti-aircraft defense; anti-tank defense; infantry signal communications; combat intelligence.

Basic Course, Coast Artillery

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—National Defense Act and R.O.T.C.; military obligations of citizenship; military history and policy; military discipline; courtesies, and customs of the Service; military sanitation and first aid; organization of the Army; organization of the Coast Artillery Corps; Coast Artillery ammunition; rifle marksmanship; leadership, theory of close order drill to include the platoon; the practice of close-order drill to include the company and ceremonies.

Second Semester—Coast Artillery weapons and materials; seacoast artillery gun drill; map reading; leadership (continuation of the theory and practice of close order drill to include the company and ceremonies).

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Characteristics of naval targets; fire control and position finding for seacoast artillery; drill of seacoast artillery range sections; rigging; operation and maintenance of Coast Artillery motor transportation; leadership (review and continuation of first year's training, adding thereto training in the fundamentals of leadership).

Second Semester—Basic gunnery fire control and position finding for anti-aircraft artillery; drill of anti-aircraft artillery gun section and range

section; anti-aircraft artillery weapons and material; leadership (review and continuation of first-semester work in leadership).

Advanced Course, Coast Artillery

Junior Year, Course 5, 6. *Five hours a week, two credit hours a semester*

First Semester—Aerial photographic reading; administration; defense against chemical warfare; orientation; signal communications for Coast Artillery fire control and position finding for seacoast artillery; applied gunnery for seacoast artillery; leadership (review of basic training, primarily from the point of view of an instructor and leader).

Second Semester—Basic and applied gunnery, fire control and position finding for anti-aircraft artillery; rifle and pistol marksmanship; leadership (continuation of work of first semester in this subject).

Senior Year, Course 7, 8. *Five hours a week, two credit hours a semester*

First Semester—Property, emergency procurement and funds; military law; military history and policy; mechanization; orientation; field fortifications for seacoast artillery; leadership (to qualify students as instructors and platoon and battery commanders).

Second Semester—Combat orders and solution of problems (Coast Artillery); technique and elementary tactics for seacoast and for anti-aircraft artillery; Officers' Reserve Corps; leadership (continuation of work of first semester in this subject).

Band

Course 11, 12. *Three hours a week, one credit hour a semester*

The band consists of two classes of students: (1) those who register for band and receive one hour of academic credit; (2) those who do not register but who usually play with the band on public appearances, at military ceremonies, and on trips of the band as an undergraduate organization. Students who are registered for Band are required to practice two hours per week. For the equivalent of the third hour, they are required to attend such parades, ceremonies, and functions as designated by the Military Department and as requested by the Athletic Association.

PROFESSOR SPRAGUE, CAPTAIN INGRAHAM

PHYSICAL EDUCATION AND ATHLETICS

Men's Division

Professors Wallace, Curtis, Brice, and Jenkins;
Mr. Kenyon; Mr. Woodbury; Mr. Sezak

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 Atheltic 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 home 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 indoor and outdoor track, varsity and freshman baseball, varsity and freshman winter sports, varsity and freshman tennis, varsity and freshman basketball, and golf.

The organization of the Physical Education Department has been planned to give the student such experience and instruction as will enable them 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 eleven 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. It consists of outdoor and indoor mass games of all types; competitive individual sports, including boxing, wrestling, fencing, corrective exercises, winter sports, elementary apparatus work, and intramural sports. *Two hours a week, no credit.*

3. 4. Physical Education.—Required of all sophomores. Outdoor mass games and athletics, including touch football, volleyball, tennis, softball, horse shoes, winter sports, etc. Also indoor games of all types, corrective work, apparatus work. *Two hours a week, no credit.*

Teachers' Certificate Course in Physical Education for Men

The following courses are for men who wish to prepare themselves to teach Physical Education and obtain a State Teachers Certificate from the State Department of Education. The course is open to juniors and seniors.

A temporary certificate good for two years may be obtained by a graduate of Maine who has had a minimum of six hours in Physical Education plus six hours in the field of Biology or Physiology. Each six hours of additional credit increases the length of the certificate two years up to a total of twenty-four hours when a permanent certificate may be obtained.

Pe 7. 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.*

Pe 8. Physical Examination and Measurements.—This course covers the purposes, management, and techniques 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, 12. *Three hours a week and field work, two credit hours.*

Pe 10. 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.*

The following courses are taught by the varsity coach of the particular sport:

Junior Year

Pe 11. Methods of Teaching Football and Basketball.

Pe 12. Methods of Teaching Track and Baseball.

Senior Year

Pe 13. Methods of Teaching Football and Basketball.

Pe 14. Methods of Teaching Track and Baseball.

Pe 20. Teaching of Recreational Activities.—This course includes the study of the need, nature, and function of recreational programs and the conducting of festivals and pageants. Special consideration is given to the contribution of physical education to community recreation in the phases needed by social workers, 4-H Club leaders, directors, and teachers of physical education in organizing and administering recreational programs. Given alternate years in the spring semester. *Three hours a week, three credit hours.*

Pe 21. The Study of Games and Play Activity.—This course will cover play and games from a physical education standpoint. A program of games suitable for use in all grades and high school will be formulated; also, carry over games to be used in later life will be taught. A uniform suitable for field work is necessary. *Three hours a week, two credit hours.*

Pe 22. The Technique of Teaching Gymnastics.—A course in practical methods and actual teaching of formal work. Corrective work, calisthenics, and appartus will be taught. A gym suit including rubber-sole shoes is required. *Three hours a week, two credit hours.*

Pe 26. The Administration of Physical Education in Elementary and Secondary Schools.—The relationship of physical education to general education will be taken up. Organization of departments; classification of activities; classification of children; time schedules; organization of leaders among children and classroom teachers. Training of leaders. Cooperation with the home. *Two hours a week, two credit hours.*

Pe 28s. The Administration of High School Athletics.—A course dealing with all phases of administering high school athletics, including history, eligibility, policies, management of contests, equipment, budgets, safety, intramurals, and modern trends in high school athletics. *Two hours class, one hour arranged, two credit hours.*

Pe 31. Athletic Training.—This course is designed for acquainting trainers and coaches who do their own training with fundamental facts necessary to the proper conditioning of athletic teams. Applied anatomy, physical examination, diagnosis, prescription, diet, massage, taping, first aid, etc. Also the use of training equipment and buying of necessary supplies. *Three hours a week, two credit hours.*

Women's Division

ASSOCIATE PROFESSOR LENGYEL; ASSISTANT PROFESSOR ROGERS; MISS CASSIDY

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 physician 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, 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 subtsituted for Course 1. 2. Elements of the modern dance as introduced by Doris Humphrey and Charles Weidman. 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 and dance form. 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.*

21. Hygiene.—A one-semester course, required of all freshman girls in the College of Arts and Sciences. It is designed to give a mature and scientific understanding of the principles of health and to create an interest in their application to one's self, and one's social relationships. Classroom, *two hours a week. Two credit hours.*

MEMBERS OF THE DEPARTMENTAL STAFF AND OTHERS

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, *five 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, 12, and Pe 21. *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.*

18. Theory of Girls' 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.*

20. Teaching of Recreational Activities.—This course includes the study of the need, nature, and function of recreation programs and the conducting of festivals and pageants. Special consideration is given to the contribution of physical education to community recreation in the phases needed by social workers, 4-H Club leaders, directors, and teachers of physical education in organizing and administering recreational programs. Given alternate years, in the spring semester. *Three hours a week, three credit hours.*

24. First Aid.—Given alternate years 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 hours a week, two credit hours.*

It is recommended that students enrolling in the above courses should have at least six hours of each of the following subjects: Education, Psychology, Sociology, and Public Speaking.

Graduate Study

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, two members from the Agricultural 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 March 1.

TRUSTEE FELLOWSHIPS.—The Trustees of the University established in 1931 three graduate fellowships of the value of $500 each, to be assigned annually on a competitive basis by a committee of the Faculty of Graduate Study.

TRUSTEE GRADUATE SCHOLARSHIPS.—Eight scholarships, of the value of a year's tuition, have been established by the Board of Trustees. Two are assigned to each teaching division of the University or at large in any year when there are no suitable candidates for study in a particular college. In awarding the scholarships preference is given to graduates of the University of Maine or of one of the Maine colleges. 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, equivalent to a full year's tuition for a student residing without the State.

THE COE RESEARCH FUND

The Trustees of the University set aside the sum of $100,000 to form a permanent fund, the proceeds of which are 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, and Master of Education are granted to candidates who hold suitable bachelor's degrees and fulfill the requirement 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

General Requirements

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 fulfilling residence requirements, except that for candidates for the degree of Master of Education the requirement is five summers.

The amount of credit which may be transferred from another university is limited to six semester hours; the amount of work which may be done toward a degree in Extension classes, whether held on or off the campus, is ordinarily limited to six hours.

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.

Program of Studies

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, but may postpone until later the selection of a thesis subject. 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 candidates 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.

A thesis is required of all candidates for the degrees of Master of Arts and Master of Science; a paper, for which two semester hours of credit are allowed, is a requirement for the degree of Master of Education.

Each candidate for a degree is furnished with a registration book containing the names and numbers of the courses which have been approved for his degree.

Foreign Language Requirement

Certain departments have a foreign-language requirement as stated below:

Bacteriology and Biochemistry: a reading knowledge of German. In addition, a reading knowledge of French is recommended.

Botany and Entomology: a reading knowledge of German or French.

Chemistry: an ability to read chemical literature in German.

Plant Pathology: an ability to read the literature of this field in German. In case such an ability has not been previously acquired, approved courses in German should be taken in addition to the graduate work. A reading knowledge of French for literature in this subject is also recommended.

Zoology: a reading knowledge of French or German. An acquaintance with both languages is desirable.

For English majors at least an elementary knowledge of Latin, French, and German is recommended.

Theses

The candidate for the degree of Master of Arts or Master of Science 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.

For students carrying full registration during the regular sessions, the subject shall be submitted and approved by the end of the first semester. *The student is not formally admitted as a candidate for the master's degree until the thesis subject has been approved.* As the thesis forms a part of the thirty hours required for the above degrees, the student must register for it once, the same as for any course.

Detailed requirements for the form and arrangement of theses are found in a pamphlet with the title "Information Concerning the Preparation of Graduate Theses," which may be obtained at the office of the Dean of Graduate 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, or by a committee which shall be appointed by the Dean of Graduate Study for that purpose. The thesis shall be read and approved by no fewer than three persons.

Degree of Master of Education

The degree of Master of Education is intended for persons with teaching or administrative experience who desire to improve their professional efficiency but who have no intention of doing extended research or of pursuing graduate work beyond the master's degree. Students are not eligible to receive this degree until they have had at least three years of teaching or administrative experience.

The program for this degree, totalling thirty hours of credit, shall contain at least two graduate seminar courses amounting to four credits to be taken during the last three summers of work, and a paper for which two credits are given.

The paper may be of the following types: a critical exposition, a digest and analysis of the literature on a topic or problem, a report of a project undertaken and carried on under competent direction, or the statistical analysis of data on a problem. The subject and plan for this paper must be approved by the end of the fourth summer of work for the degree. The oral examination covers this paper as well as the courses taken.

Examinations and Awarding of Degrees

Near the end of the course of study for the master's degree, and after the thesis has been approved, if this is a requirement forr his degree, the candidate will be required to pass an oral examination covering the work done, including the thesis or paper. On request of the major instructor, the time for such examination will be arranged by the Dean of Graduate Study to accord so far as possible with the convenience of all concerned. Oral examinations will ordinarily be held in the months of May and August, but at the discretion of the Executive Committee they may be held at other times. Oral examinations are conducted by a committee composed of those instructors from whom courses have been taken, and are open to all voting members of the University faculty. Any member of the faculty 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. Students completing their requirements in the summer, however, may have their degrees awarded in the early fall.

PROFESSIONAL DEGREES

The professional degrees of Chemical Engineer (Ch.E.), Civil Engineer (C.E.), Electrical Engineer (E.E.), and Mechanical Engineer (M.E.) may be conferred upon graduates in the curricula 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 are eligible to receive, upon the completion of the requirements listed below, 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 degree of Forest Engineer (F.E.) has likewise been authorized to recognize professional advancement in Forestry.

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 regis-

tration. 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

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 Livestock Breeders' 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 are in Holmes Hall, described in the section on University buildings. Agricultural Economics is located in Winslow Hall and Home Economics in Merrill Hall. There are laboratories also in The Maples and in Aubert Hall. The Station is equipped with laboratories and apparatus for the conduct of research in the following lines: animal breeding and nutrition, plant breeding and nutrition, chemistry related to agriculture, entomology, plant pathology, agricultural economics, and home economics. Equipment and facilities for dairy husbandry research are available at Highmoor Farm. The Station has extensive collections illustrating the botany and entomology of the State. It has a library of nearly 7,000 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 2,500 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 7,500 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 one-third 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.

The U. S. Department of Agriculture, Bureau of Plant Industry, cooperates with the Station on some of the research. The Department has erected a small laboratory building, a potato storage house, and a greenhouse on the farm as aids in facilitating the research work.

In 1939 the University purchased, for the use of the Station, an additional one hundred acres of land abutting Aroostook Farm on the north. The new area, known as the Annis Farm, has about 55 acres now in cultivation. About 40 acres additional, now in woods, will be suitable for cultivation when the land is cleared. The farmhouse is being renovated to provide two apartments to be used as quarters for staff members located at Presque Isle during the summer season.

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, home economics research, soil survey, and land use inventory.

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. The Station is required by law, also, to make analyses of samples of gasoline and lubricating oils as requested by the State Tax Assessor.

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.

The results of the work of inspection are printed in pamphlet form and are termed *Official Inspections.*

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.

Brief summary reports are announced at least once a year of all bulletins published during the year. The reports are sent to all residents of the State whose names are on the Station's mailing list.

On request, the name of any resident of Maine will be placed on the permanent mailing list to receive notices of the Bulletins and Offical 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. About 135 courses in twenty subjects are offered. Instruction is given in most of the subjects taught in the College of Arts and Sciences as well as in Chemistry, Chemical Engineering, Pulp and Paper Technology, Physical Education, Home Economics, and Nursing Education. 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 admisson 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. For the degree of Master of Education the residence requirement may be met by attending five sessions; for other master's degrees the minimum residence requirement is four sessions.

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 $10 is paid by all students. An additional fee is charged for tuition amounting to $5.00 for each semester hour of work. This means a total of $40 for a maximum program of six credits.

The opening and closing dates for 1941 are Monday, July 7, and Friday, August 15. The Summer Session Bulletin, giving a list of the courses offered and detailed information, is published annually about March 15. For copies and other information address Dr. Roy M. Peterson, Director, Orono, Maine.

Extension Courses

The University offers a limited amount of work each year through extension courses given by various departments. These courses are handled by the office of the School of Education. Courses are offered by departments in all the colleges of the University according to the demand for such work. The list is revised and distributed in mimeographed form each year in September.

Three general types of courses are offered as follows: (1) Correspondence courses, which are handled entirely by mail on an indivdual basis; (2) extension classes, which may be organized in any community where sufficient demand exists, provided an instructor is available for the course desired; (3) Saturday class extension courses which are offered on the campus on Saturday mornings.

College credit toward a degree may be earned by all types of extension courses, subject to the regulations of the department and college in which the student is registered, the approval of which should always be secured in advance is such credit is desired.

Alumni Associations

OFFICERS

President, George D. Bearce '11, Bucksport
Vice President, Robert F. Thurrell '15, East Wolfeboro, N. H.
Clerk, Maurice D. Jones '12, Winslow Hall, U. of M., Orono
Treasurer, Winthrop C. Libby '32, Agri. Eng. Bldg., U. of M., Orono
Executive Secretary, Charles E. Crossland '17, Orono
Assistant Secretary, Philip J. Brockway '31, Orono

ALUMNI COUNCIL MEMBERS

Members at Large

	Term expires
Mrs. Estelle S. Robbins '19, R.D. #1, Scarboro	1941
Mrs. Merrill Bowles '21, 176 Nowell Rd., Bangor	1941
Richard E. McKown '17, Bar Harbor	1941
Alfred B. Lingley '20, 44 Warren St., Providence, R. I.	1941
Harold Cooper '15, 77 Davis Ave., Auburn	1941
Earle R. Gowell '30, Central Maine Power Co., Rockland	1942
F. Drummond Freese '15, 144 Broadway, Bangor	1942
Andrew J. Beck '13, State House, Augusta	1942
Miss M. June Kelley '12, 27 Florence Ave., Norwood, Mass.	1942
Harold J. Shaw '14, Sanford	1942
Fred D. Knight '09, 39 Boylston St., Boston, Mass.	1943
Norman H. Mayo '09, 329 Commercial St., Portland	1943
George S. Williams '05, 9 Green St., Augusta	1943

College of Agriculture

Frank W. Hussey '25, Presque Isle	1941

College of Arts and Sciences

Hazen H. Ayer '24, 50 Congress St., Boston, Mass.	1942

College of Technology

Walter H. Burke '06, 2 Rector St., New York, N. Y. 1941

College of Law

Thomas N. Weeks '16, 110 Main St., Waterville 1943

Alumni Representative on Board of Trustees

Harold M. Pierce '19, P. O. Box 58, Bangor 1942

LOCAL ALUMNI ASSOCIATION OFFICERS

MAINE

Androscoggin Valley Alumni—President, Henry W. Turgeon '20, 10 Avon St., Lewiston; Secretary, Mrs. Robert Pendleton '33, 500 Main St., Lewiston.

Central Maine Alumni—President, Wallace E. Parsons '11, Keyes Fibre Co., Waterville; Secretary, Mrs. John Turbyne '34, 60 Pleasant St., Waterville.

Cumberland County Alumni—President, Harland Knight '30, 125 South St., Gorham; Secretary, Albert Verrill, Jr., '36, 40 Waltham St., Cumberland Mills.

Franklin County—President, Errol Dearborn '22, Farmington; Secretary, J. Winston Hoyt '35, Farmington.

Hancock County—President, Maurice Burr '26, Northeast Harbor; Secretary, Gardner Tibbetts '22, 17 Pleasant St., Ellsworth.

Knox County—President, Carlton Wood '20, 90 Elm St., Camden; Secretary, Miss Lucinda Rich '37, Farm Bureau Office, Rockland.

Lincoln County—President, Harvey R. Pease '14L, Wiscasset; Secretary, Miss Selma Gregory '34, Boothbay Harbor.

The Maine Club—President, Ross H. Varney '15, 171 College St., Lewiston; Secretary, John L. McCobb '25, 62 Winter St., Auburn.

Merrymeeting Bay—President, George Crimmins '30, 25 Spring St., Brunswick; Secretary, Mrs. Scott Davis '34, 1037 Washington St., Bath.

North Aroostook—Vice President, Donald Atwater '16, Limestone.

Oxford County—President, Richard Blanchard '31, South Paris; Secretary, Mrs. Albert McCready, 2 Tucker St., Norway.

Penobscot County Alumni—President, Samuel H. Calderwood '33, 31 Central St., Bangor; Secretary, Earle R. Webster '27, 93 Norway Rd., Bangor.

Penobscot County Alumnae—President, Mrs. Merrill Bowles '21, 176 Nowell Rd., Bangor; Secretary, Miss Jessie L. Fraser '31, R.F.D. #7, Bangor.

Piscataquis County—President, Matthew Williams '28, Dover-Foxcroft; Secretary, Mrs. Hugo Cross '20, Guilford.

Portland Alumnae—President, Mrs. Margaret M. Pratt '32, Hermit Thrush Rd., Cape Elizabeth; Secretary (Rec.), Mrs. Kenneth Prouty '29, 430 Woodford St., Portland; Secretary (Corr.), Mrs. Louise Roberts '28, 872 Riverside St., Portland.

Somerset County—President, Hayden S. Rogers '34, Bingham; Secretary, Wilford J. Merrill '38, Solon.

South Aroostook—President, Harold H. Inman '30, 7 Charles St., Houlton; Secretary, Mrs. Margaret Webber '31, 30 Highland Ave., Houlton.

South Kennebec—President, Lowell N. Weston '36, 7 South Chestnut St., Augusta; Secretary, Miss Dorothy E. Mossler '25, 2a Maple St., Augusta.

Waldo County—President, Spurgeon K. Benjamin '35, 11 Grove St., Belfast; Secretary, Miss Barbara Higgins '30, Belfast.

Washington County—President, Mrs. Frances S. Worcester '27, Jonesport; Secretary, Mrs. Ruth L. Higgins '35, Machias.

York County—President, Earle T. Blodgett '27, Alfred; Secretary, Stacy F. Billings '31, North Berwick.

CALIFORNIA

Southern—President, George E. Springer '10, 1128 West 50th St., Los Angeles; Secretary, E. Leith Chase '26, 3178 Maple St., San Diego.

CONNECTICUT

Hartford—President, Norman L. French '32, 24 Scarsdale Rd., West Hartford; Secretary, Donald Henderson '31, 540 Windsor Ave., Windsor.

DISTRICT OF COLUMBIA

Washington—President, Artemus E. Weatherbee '39, 17 E. Parkway, Greenbelt, Maryland; Secretary, Mrs. Thompson Berdeen '34, 309 North Piedmont St., Arlington, Virginia.

ILLINOIS

Chicago—President, Philip T. Oak '24, 1946 Davis Ave., Whiting, Indiana; Secretary, Mellen C. Wiley '03, 544 Michigan Ave., Evanston, Illinois.

MARYLAND

Baltimore—President, Clarence Springer '18, 3506 Dennlyn Rd., Baltimore; Secretary, Omar Tarr '16, 907 Old Oak Rd., Baltimore.

MASSACHUSETTS

Boston Alumnae—President, Miss Marian Hawkes '29, 11 Linnaean St., Cambridge; Secretary, Miss Elizabeth Livingstone '31, Lasall Junior College, Auburndale.

Boston Alumni—President, Warren H. Preble '21, 31 Milk St., Boston; Secretary, Duncan Cotting '38, 45 Garden St., Beacon Hill, Boston.

Western Massachusetts—President, Paul Langlois, Sunrise Terrace, Agawam; Secretary, Frederick M. Lindahl '24, 28 Worthy Ave., West Springfield.

Worcester County—President, Asher Sylvester '36, 564 Chandler St., Worcester; Secretary, Mrs. Asher Sylvester, 564 Chandler St., Worcester.

MICHIGAN

Detroit—President, Perley F. Goodridge '97, 4416 Lakewood, Detroit; Secretary, Mrs. Bessie M. Hovey '24, 231 Oakland Ave., Birmingham.

MINNESOTA

Chairman, James H. Davidson '21, 1100 Builders Exchange, Minneapolis.

MISSOURI

St. Louis—President, Clifford L. Draper '08, 4882 Farlin Ave., St. Louis; Secretary, Mrs. F. H. Derby, 129 South Elm Ave., Webster Groves.

NEW HAMPSHIRE

Southern—President, Peter Tsiales '30, 235 Bell St., Manchester; Secretary, Miss Elizabeth Mason '30, 671 Chestnut St., Manchester.

White Mountain—President, J. Murray Hamilton '26, 100 Main St., Berlin; Secretary, Robert Rich '18, 173 Main St., Berlin.

NEW YORK

Central—President, Prof. C. Earl Libby, Dept. of Pulp & Paper, New York State College of Forestry, Syracuse.

New York Alumnae—President, Miss Sarah Jane Thompson, 21 Overlook St., Mt. Vernon; Secretary, Mrs. Pauline D. Hitchings '39, 141-37 Union Turnpike, Kew Gardens, L. I.

New York Alumni—President, Chester W. Cambell '25, Dept. of Housing & Bldgs., Municipal Bldg., New York City; Secretary, Clarence E. Bassett '29, c/o American Can Company, 230 Park Ave., New York City.

Northern New Jersey Alumni—Chairman, Randall A. Harrington '19, North Oak Court, Convent Station; Secretary, Sidney B. Coleman '26, Lake Road, Basking Ridge.

Northeastern New York—President, Everett G. Ham '16, 2 Seymour Court, Troy; Secretary, Henry W. Chadbourne '02, c/o General Electric, 1 River Road, Schenectady.

Western New York—President, Roland L. Turner '04, 66 West Winspear, Buffalo; Secretary, Merrill Eldridge '38, 4822 Penn St., Niagara Falls.

OHIO

President, Herbert Knowlton '07, 17513 Delaware Ave., Lakewood; Secretary, Miss Margaret Hall '36, 2056 Warren Rd., Lakewood.

PENNSYLVANIA

Lehigh Valley—President, Arthur C. Wescott '99, 236 South 15th St., Allentown; Secretary, Paul S. Robinson '27, 124 South 7th St., Allentown.

Philadelphia—President, Dr. Edward G. Kelley '29, 10 South Hillcrest Rd., Springfield; Secretary, Dean Gertrude Peabody, Temple University, Philadelphia.

Western Pennsylvania—President, Ralph Parkman '26, 1434 Justine St., Pittsburgh; Secretary, Harry A. Randall '15, Duquesne Power & Light Co., 435 Sixth Ave., Pittsburgh.

RHODE ISLAND

Providence—President, J. Wesley Ames '24, 167 Read St., Somerset Center, Mass.; Secretary, Clarence Bradbury '33, Western Union Tel. Co., Providence.

VERMONT

President—Walter Emerson '16, 47 Central St., Northfield; Secretary, Mrs. Raymond Thompson '24, 197 Main St., Montpelier.

SPECIAL ASSOCIATIONS

UNIVERSITY OF MAINE ALUMNI TEACHERS—President, Joseph B. Chaplin '21, Bangor High School, Bangor.

PULP AND PAPER ALUMNI—Olin W. Callighan '24, 117 East Belmont Ave., Kalamazoo, Michigan.

CLASS OFFICERS

SENIOR ALUMNI (Fifty Year and Older Alumni)—President, John S. Williams '87, Guilford; Secretary, Dean James N. Hart '85, Orono, (winter—Winter Park, Florida).

1891—President, William N. Patten, 49 Federal St., Boston, Mass.
Secretary, William M. Bailey, 88 Broad St., Boston, Mass.
1892—Secretary, Warren E. Healey, 27 Partridge Hill Rd., Weston, Mass.
1893—Secretary, Harry Smith, 51 Hammond St., Bangor
1894—Secretary, Wallace H. Jose, 38 Bemis St., Newtonville, Mass.
1895—Secretary, Dr. Harold S. Boardman, 172 Main St., Orono
1896—President, Paul D. Sargent, Eastland Hotel, Portland, (winter—Box 1301, St. Petersburg, Florida)
Secretary, Joseph W. Randlette, Richmond
1897—Secretary, William L. Holyoke, 1422 Watauga St., Kingsport, Tenn.
1898—Secretary, C. Parker Crowell, 6 State St., Bangor
1899—President, Oliver O. Stover, Freeport
Secretary, Allen W. Stephens, Grafton Hotel, Washington, D. C.
1900—President, Guy A. Hersey, 18 Plaisted Ave., Bangor
Secretary, Henry F. Drummond, 91 West Broadway, Bangor
1901—Secretary, Fred L. Martin, 44 Wentworth St., Bridgeport, Conn.
1902—Secretary, Arthur E. Silver, 2 Rector St., N. Y. C.
1903—President, John H. McCready, 87 Hillside Rd., Newton Highlands, Mass.
Secretary, Edward G. Hartford, 22 Trapelo St., Brighton, Mass.
1904—President, Clifford G. Chase, Baring
Secretary, Leslie E. Little, 73 Court St., Augusta
1905—President, Horace A. Hilton, 385 Union St., Bangor
Secretary, J. Harvey McClure, 49 Hammond St., Bangor
1906—President, A. Guy Bennett, 5 Summerhill Gardens, Toronto, Ontario
Secretary, Henry W. Bearce, 6308 Ridgewood Ave., Chevy Chase, Md.
1907—Secretary, Carl H. Lekberg, 110 Foster St., Worcester, Mass.
1908—President, Raymond Fellows, 395 Union St., Bangor
Secretary, James A. Gannett, Alumni Hall, U. of M., Orono
1909—President, Fred D. Knight, 39 Boylston St., Boston, Mass.
Secretary, Harold A. Rich, 78 Adella Ave., West Newton, Mass.
1910—President, Ernest Lamb, 35 Congress St., Boston, Mass.
Secretary, Grover T. Corning, 30 Federal St., Boston, Mass.
1911—President, Ernest T. Walker, Walker-Turner Co., Plainfield, N. J.
Secretary, Avery C. Hammond, 61 Coe Block, Bangor
1912—President, Karl D. Woodward, 259 Broadway, Lachine, Quebec
Secretary, William E. Schrumpf, Winslow Hall, U. of M., Orono
1913—Secretary, James E. Church, 192 Northern Ave., Gardiner
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Secretary, Richard F. Crocker, Fort Kent

1915—President, Raymond H. Fogler, W. T. Grant Co., 1441 Broadway, N. Y. C.
Secretary, Robert F. Thurrell, East Wolfeboro, N. H.
1916—President, Lewis O. Barrows, Newport
Secretary, Walter W. Webber, Bucksport
1917—President, Joseph A. McCusker, 80 Dunster Rd., Jamaica Plain, Mass.
Secretary, Frank O. Stephens, 21 Academy St., Auburn
1918—President, Prof. Harry D. Watson, Lord Hall, U. of M., Orono
Secretary, Prof. Walter J. Creamer, Lord Hall, U. of M., Orono
1919—President, Prof. Dwight B. Demeritt, Winslow Hall, U. of M., Orono
Secretary, Harold M. Pierce, P. O. Box 58, Bangor
1920—
1921—Secretary, Miss Katherine D. Stewart, 21 Ohio St., Bangor
1922—President, Osgood A. Nickerson, R.F.D. #7, Bangor
Secretary, Ulmer Davis, Machias
1923—President, Henry L. Doten, Alumni Hall, U. of M., Orono
Secretary, Mrs. Mary P. Crandon, Stevens Hall, U. of M., Orono
1924—President, Earl Dunham, 490 State St., Bangor
Secretary, J. Wesley Ames, 167 Read St., Somerset Center, Mass.
1925—President, Frank W. Hussey, Presque Isle
Secretary, Mrs. Louise Lord, 38 Forest Ave., Orono
1926—President, Oren F. Fraser, Leavitt Institute, Turner
Secretary, Miss Cora Emery, 331 Concord Ave., Lexington, Mass.
1927—President, Paul D. Lamoreau, Presque Isle
Secretary, Mrs. Earle R. Webster, 93 Norway Road, Bangor
1928—President, David Fuller, 414 Eastern Trust Bldg., Bangor
Secretary, Mrs. Thelma Dudley, 34 Cottage Farm Rd., Cape Elizabeth
1929—President, Robert Parks, Waldorf System, 28 Euclid St., Rochester, N. Y.
Secretary, Mrs. Caroline C. Lowell, 20 Highland Ave., Bangor
1930—President, William H. Daley, 415 Congress St., Portland
Secretary, Kenneth Haskell, 22 Brewer St., Portland
1931—President, Clifton E. Curtis, 775 Union St., Bangor
Secretary, Miss Doris Gross, Stonington
1932—President, Prof. Winthrop C. Libby, Agri. Eng. Bldg., U. of M., Orono
Secretary, Miss Mary G. Bean, 2 Madison St., Bangor
1933—President, Russell Shaw, 186 Middle St., Portland
Secretary, Mrs. Dorothy F. Carnochan, 39 Falmouth St., Portland
1934—President, Philip S. Parsons, Extension Agent, Belfast
Secretary, Mrs. Madelene B. Russ, 417 High St., Lowell, Mass.

1935—President, George L. Cobb, Montgomery Ward Co., Watertown, N. Y.
Secretary, Miss Agnes Crowley, 59 Western Ave., Biddeford
1936—President, John Sealey, Central Maine Power Co., Augusta
Secretary, Mrs. Phyllis Webster, 338 Pine St., Lewiston
1937—President, Leslie M. Hutchings, 141½ Haslett St., East Lansing, Michigan
Secretary, Mrs. Harold Woodbury, 7 Park Lane, Orono
1938—President, John R. Gowell, Old Mill Place, Trumbull, Conn.
Secretary, Miss Mary Deering, Court House, Binghamton, N. Y.
1939—President, Dana Drew, 258 Center St., Old Town
Secretary, Mrs. Donald Huff, Courtmore Apts., 117 Summer St., Malden, Mass.
1940—President, Harold Gerrish, Aberdeen Proving Ground, Maryland
Secretary, Miss Alice Ann Donovan, 121 Main St., Houlton

Honors and Prizes Awarded

Members of Honor Societies arranged in order of their establishment at the University of Maine.

Members of Phi Kappa Phi

1940

Richard Warren Akeley, Presque Isle; Myer Alpert, Bangor; Ervin Alexander Arbo, Brownville; Wallace Ames Beardsell, Weston, Mass.; Robert Harlan Bonney, Portland; Leon Joseph Breton, Rumford; William Heywood Chandler, Portland; Eldon Ralph Clark, Dennysville; William Sherwood Cook, Tenants Harbor; Helma Katrina Ebbeson, Bangor; Myron Stewart Gartley, Presque Isle; Harold Aldrich Gerrish, Lisbon Falls; Patricia Kathryn Gogan, Orono; Stephen Keith Gross, Camden; Walter Edward Hanley, Orono; Joseph Leonard Harrington, Patten; Margaret Ernestine Hauck, Orono; Philip Allen Hutchinson, West Buxton; Joseph Myron Johnson, Harrison; Chester Morris Ladd, Waterville; Wiljo Maurice Lindell, Warren; Richard Gwynne Morton, Farmington; Everett Herrick Nason, Brunswick; Alvalene May Pierson, Tenants Harbor; Annette Youngs Redman, Bangor; Edwin Stanton Rich, Charleston; Eugene Osborne Russell, Yarmouth; Elnora Louise Savage, Bangor; Richard Miles Sawyer, Portland; Ralph Getchell Smith, Exeter; Edward Waldron Stanley, Farmington; Guy Susi, Pittsfield; Roger Boardman Trask, Bangor; Marion Rhoda Tufts, South Berwick; Virginia Margaret Tuttle, East Corinth; Linnea Beatrice Westin, Bangor; Norman Eveleth Whitney, West Newton, Mass.; Evelyn Ruth Woods, Gorham.

Members of Alpha Zeta

1940

Richard Warren Akeley, Presque Isle; William Dwight Barrell, Turner; Kenneth Joseph Bouchard, Caribou; Edward Jay Cook, Jr., Rutland, Vt.; Philip Edward Curtis, Caribou; Myron Stewart Gartley, Presque Isle; Walter Edward Hanley, Orono; Joseph Leonard Harrington, Patten; Orman Pearl Hunt, Clinton; Joseph Myron Johnson, Harrison; Alvah Edward Pangburn, Caribou; Walter Edwin Potter, Sabattus; Donald Calvin Smith, Easton; Ralph Getchell Smith, Exeter; Norman Eveleth Whitney, West Newton, Mass.

1941

Roy Laurel Anderson, Newport; Rockwood Norton Berry, Livermore Falls; Frederick Marshall Crouse, Kents Hill; Donald B. Holyoke, Brewer; Cecil Edgar Howes, Patten; Winston Eugene Pullen, Monson; Irving Kitchen Smith, Presque Isle; Owen Halbert Smith, Presque Isle; Myron John Towle, Fort Fairfield; Neal Harvey Walker, Wiscasset; Maurice Harvard Whitten, Fort Kent.

1942

McClure Day, Damariscotta; Irwin Raymond Higgins, Mapleton; Donald Murray Kilpatrick, Caribou; Alvah Lionel Perry, Sherman Mills; Frank Elwood Potter, Sabattus.

Members of Tau Beta Pi

1940

Harlow Dailey Adkins, Norway; Wallace Ames Beardsell, Weston, Mass.; Robert Harlan Bonney, Portland; William Sumner Bower, Auburn; Leon Joseph Breton, Rumford; Clark Wainwright Browne, North Abington, Mass.; Douglas Harold Carr, Dexter; William Heywood Chandler, Portland; William Sherwood Cook, Tenants Harbor; Stephen Keith Gross, Camden; Stanley Robert Holland, Portland; Philip Allen Hutchinson, West Buxton; Wiljo Maurice Lindell, Warren; Richard Gwynne Morton, Farmington; Edwin Stanton Rich, Charleston; Eugene Osborne Russell, Yarmouth; Richard Miles Sawyer, Portland; Edward Waldron Stanley, Farmington; Guy Susi, Pittsfield.

1941

Wilson Merriman Alford, Windsor, Conn.; Carl Raymond Brown, Levant; Richard Raymond Chase, Portland; Lester Duran Chipman, Mechanic Falls; George Benjamin Cotton, Auburn; David Sutton Greenlaw, Norway; Robert Skillings McDonald, Portland; Alfred Alroy Mann, Raymond; John Kew O'Donoghue, Lowell, Mass.; William Frazier Parsons, Skowhegan; John Dunning Pennell, Jr., Portland; Francis Adams Wheeler, Auburn; James Oliver Williams, Ogunquit.

Members of Xi Sigma Pi

1940

John Chase Alley, Portland; Earle Dutton Bessey, Jr., Brooks; Eldon Ralph Clark, Dennysville; Carleton Paul Duby, Bradley; Francis Patrick Golden, Hampden Highlands; William George Goodrich, Morrisville, Vt.; William Henry Hatch, Dark Harbor; Fred Edward Holt, Oxford; Chester Morris Ladd, Waterville; Warren Rupert McNeil, Bath; John Thornton Maines, Hartford, Conn.; Eugene Lincoln Moore, Houlton; John Harold Pratt, Oxford; Roger Boardman Trask, Bangor.

1941

Everett Bacon Chamberlain, Belgrade Lakes; Howard Lincoln Ehrlenbach, North Tonawanda, N. Y.; Stephen Hamilton Jackson, Union, N. J.; Jacob Serota, Portland; Ormond Adolph Staples, Camden; Benjamin Sabin Troop, Hartford, Conn.; Angelo Salvatore Zieno, Norwich, N. Y.

Members of Phi Beta Kappa

1940

Myer Alpert, Bangor; Loren Woodbury Dow, Bangor; Helma Katrina Ebbeson, Bangor; Harold Aldrich Gerrish, Lisbon Falls; Patricia Kathryn Gogan, Orono; Margaret Ernestine Hauck, Orono; Pauline Winifred Jellison, Bangor; Alvalene May Pierson, Tenants Harbor; Elnora Louise Savage, Bangor; Walter Melvin Schultz, Portland; Virginia Margaret Tuttle, East Corinth; Linnea Beatrice Westin, Bangor.

1941

Charles Alfred Hall, Castine; Marjorie Marion Whitehouse, Augusta.

Members of Omicron Nu

1940

Mary Ellen Buck, Monticello; Marguarite Lucile Hall, Orono; Mary Elizabeth Jones, Sumner; Annette Youngs Redman, Bangor; Eleanor Maxine Robertson, Portland; Margaret Claire Sawyer, Gray; Margaret Olive Steinmetz, Orono; Marion Rhoda Tufts, South Berwick.

1941

Eva Adeline Clark, Orono; Elizabeth Payson Grant, Portland; Dorothy Hopkins Wing, Bath.

Members of Kappa Delta Pi

1940

Ervin Alexander Arbo, Brownville; James Arnold Harmon, Presque Isle; Wayne Victor Hoy, Sherman Mills; Hope Adelaide Jackman, Orono; Stanley Morse Libby, Chebeague Island; Everett Herrick Nason, Brunswick; Amorette Bryer Nickerson, Winterport; Clarence Henry Merrill Perry, Wayne; Evelyn Ruth Woods, Gorham; Hugh Edwin Young, Aurora.

1941

Albert Edwin Hill, Warren; Phyllis Lillian Smart, LaGrange.

Scholarships and Prizes

The Merritt Caldwell Fernald Scholarship—Charles Alfred Hall, Castine.

The James Stacy Stevens Scholarship—Marjorie Marion Whitehouse, Augusta.

The Harold Sherburne Boardman Scholarship—Robert Skillings McDonald, Portland.

The Leon Stephen Merrill Scholarship—Winston Eugene Pullen, Monson.

The Charles Davidson Scholarship—Phyllis Lillian Smart, LaGrange.

The University Scholarships—Lester Duran Chipman, Mechanic Falls; Eva Adeline Clark, Orono; Ruth Jeannette Garrison, Madison; Lloyd Wilfred Griffin, Bradford, Mass.; Rudolph Eric Haffner, Portland; Albert Edwin Hill, Warren; Frederick John Kelso, Portland; Edward Louis Kozicky, Eatontown, N. J.; Roger Daniels Moulton, York Village; Ernestine King Pinkham, Portland; Betty Catherine Price, Washburn; James William Russell, Gray; Catherine Margaret Ward, Portland; Eleanor Louise Ward, Fitchburg, Mass.; Arthur Roscoe Worster, Madison.

Trustee Graduate Scholarships—John Norman Harris, Anson; Laurice Ervin Lewis, Vassalboro; Clifton Eugene Whitney, Winn.

Maritime Provinces Scholarship—Enid Elva Rice, Petitcodiac, New Brunswick, Canada.

Trustee Graduate Fellowships—Joseph Myron Johnson, Harrison; Elnora Louise Savage, Bangor; Hugh Edwin Young, Aurora.

Secondary School Contest Scholarships, awarded June, 1940:

Four-Year Scholarship—Jack Hershel Lepoff, Portland.

Three-Year Scholarship—Harry Sanborn Thomas, Jr., Farmington.

Two-Year Scholarship—Albert Day Crockett, Jr., Auburn.

One-Year Scholarships—Richard Burgess Innes, South Portland; Carroll Lyndell Knapp, Jr., Kingfield; George Robert Leavitt, Bangor; Jean Olive Simpson, Eastport; Mahlon Dorrance Smith, Yarmouth.

The Hovey Memorial Scholarships—Richard Raymond Chase, Portland; James Stevens Condon, South Brooksville; Philip Allen Hutchinson, West Buxton; Edward Waldron Stanley, Farmington.

The Charles H. Hood Fund Scholarships—Roy Laurel Anderson, Newport; Leroy Clark Brown, Farmington; Frederick Marshall Crouse, Crouseville; Earl Berfield Langley, Mars Hill; Malcolm Curtis Peckham, Taunton, Mass.; Frank Elwood Potter, Sabattus; Gordon Estey Ramsdell, Ellsworth.

The W. H. Bowker Scholarships—Clifford Harmon Keirstead, Mapleton; Everett Robert Stevens, Fryeburg.

The Maine Normal School Scholarships—Vincent John LaFlamme, Great Works; Maria Camilla Phillips, Portland.

The William Emery Parker Scholarship—Herbert Harrison Johnson, Onawa.

The Charles H. Payson Scholarships—Sylvia Janet Belden, Prentiss; Leroy Clark Brown, Farmington; James Stevens Condon, South Brooksville; Mary Emily Fielder, Orono; Clare Kendall Fulton, Bath; Alma Mabel Hansen, South Portland; Ruth Howe Linnell, Pembroke; Clarence Edwin McIntire, Portland; Ruth Louise Tuttle, Portland.

The Bertha Joy Thompson Scholarships—Ruth Ellen Benson, Kennebunkport; Eleanor Blanche Dennis, Passadumkeag; Virginia Rae Lombard, Meddybemps; Frederick Arthur Mitchell, Kingfield; Morris Reynolds Wing, Bingham.

The Philip R. Hathorne Scholarships—Wilson Merriman Alford, Windsor, Conn.; Edward Anson Henderson, Houlton; Grant Dockendorff Staples, Whitefield; Gordon Henry Winters, Waterville.

The James Norris Hart Scholarships—Robert Dustin Larsson, Gloucester, Mass.; Frances Ann Sheehy, Lewiston.

The Hosea B. Buck Memorial Scholarship—Martha Elizabeth Hutchins, Kingfield.

The Charles F. Woodman Scholarships—Dana Coolidge Dingley, Farmington; Frances Taylor Horne, Portland; Hazel Thelma King, Saco;

Edgar Thurlow Pitts, Stonington; Frank O'Neil Robertson, Jr., Bethel; Donald Vardy Taverner, Augusta.

The Sears-Roebuck Agricultural Foundation Scholarships—Raymond Emery Amsden, Detroit; Paul Jean Eastman, Smyrna Mills; Arthur Lee Gilpatrick, Whiting; Herbert Vinal Hardy, Hope; Albion Seth Hayman, Brookton; Stanley Clair Junkins, Oxbow; Theodore Alton Kerr, Waterville; Merton Stacy Meloon, Kezar Falls; Philip Sheridan Parker, Addison; Carroll Barton Richardson, Oakland; Dwight Holden Sawin, Jr., Harrison; Philip Sturdivant Sweetser, Cumberland Center; Roger William Thurlow, Lee; John Putnam Wescott, Patten.

The Women's Student Government Association Scholarships—Anna Elizabeth Verrill, Westbrook; Marjorie Rebecca Verrill, Winterport.

The New York Alumni Association Scholarship No. 2—Divided between Philip Allen Hutchinson, West Buxton, and Harold John Jordan, Augusta.

The Kidder Scholarship—Divided among Corinne Louella Comstock, Millinocket, Ernestine King Pinkham, Portland, and Catherine Margaret Ward, Portland.

The Chicago Alumni Association Scholarship—Hyman Nathan Schneider, Mattapan, Mass.

The Western Pennsylvania Alumni Association Scholarship—Blendin LeRoy Burton, Bangor.

The Joseph Rider Farrington Scholarship—Donald Brooks Holyoke, Brewer.

The Stanley Plummer Scholarship—Gerard Alphonse Goulette, Dexter.

The Elizabeth Abbott Balentine Scholarship—Barbara Savage, Bangor.

The Class of 1905 Scholarship—Robert Dunlap Jenkins, Orono.

The Carrol C. Jones Scholarship—Edgar Morse Potter, Kittery.

The Ohio Alumni Association Scholarship—Robert Burrill Goodwin, Brewer.

The Lincoln County Alumni Association Scholarship—James Alden Reed, Boothbay.

The Northern Aroostook Alumni Association Scholarship—Harold Falle Rheinlander, Van Buren.

The Philadelphia Alumni Association Scholarship—Albert Ernest Hall, Jr., Merchantville, N. J.

The Southern California Alumni Association Scholarship—Elizabeth Jane Barker, Bangor.

The York County Alumni Association Scholarship—James Oliver Williams, Ogunquit.

The Connecticut Alumni Association Scholarship—Radford Weston Luther, Hartford, Conn.

The Somerset County Alumni Association Scholarship—Kenneth Willis Hodgdon, Anson.

The Piscataquis County Alumni Association Scholarship—Elizabeth Gould Rowe, Milo.

The Hancock County Alumni Association Scholarship—Margaret Goldie Phillips, Ellsworth.

The John M. Oak Scholarship Awards—George Hathaway Ellis, Orono; Robert Arthur Elwell, Gorham; John Dudley Utterback, Bangor.

The Class of 1911 Scholarship—Raymond Wilbur Buck, Jr., Monticello.

The Agricultural Club Scholarship—Rockwood Norton Berry, Livermore Falls.

The Maine Farm Bureau Fund Scholarship—Julia Alice Smith, Limerick.

The Class of 1909 Fund Scholarship—Harlan Orrington Rowe, East Stoneham.

The State of Maine Pi Beta Phi Alumnae Club Scholarship—Virginia Rae Lombard, Meddybemps.

Sophomore Owls Scholarships—Dana Coolidge Dingley, Farmington; John Robert Radley, Attleboro, Mass.

The Chi Omega Sociology Prize—Frances Taylor Horne, Portland.

The Prize of the Class of 1873—Gordon Chapman Blanchard, Swampscott, Mass.

The Alpha Omicron Pi Alumnae Prize—Priscilla Loring, Freeport.

The Sigma Mu Sigma Award—Elizabeth Jane Barker, Bangor.

The Pale Blue Key Award—Walter Hugh Brady, Dorchester, Mass.

The Henry L. Griffin Prize in English Composition—Thomas William Easton, Bridgton.

The Franklin Danforth Prize—Norman Eveleth Whitney, West Newton, Mass.

The Greek Culture Prize—Kenneth Llewellyn Thomas, Portland.

The Spanish Club Prize—Paul Smith, Bangor.

The Claude Dewing Graton Prize—Borris Kleiner, Bangor.

The Alpha Zeta Senior Award—Joseph Leonard Harrington, Patten.

The Senior English Essay Prize—Elnora Louise Savage, Bangor.

The Maine Hardwood Association Fund Prize—William George Goodrich, Morrisville, Vt.

The Class of 1908 Commencement Cup—Class of 1890.

The Twentieth Century Cup—Class of 1915.

The Fraternity Scholarship Cup—Alpha Gamma Rho.

The Freshman Scholarship Cup—Gardiner High School.

The Charles Rice Cup—Kappa Sigma.

The Washington Alumni Association Watch—Harold Aldrich Gerrish, Lisbon Falls.

The Portland Alumnae Association Watch—Alice Ann Donovan, Houlton.

Commencement 1940

Thursday, June 6

8:00 P.M.	Commencement Ball—Alumni Memorial

Friday, June 7

11:00 A.M.	Senior Class Meeting—Little Theatre
1:45 P.M.	Class Day Exercises—The Oval
2:00	Alumni Council Annual Meeting
3:30	Pageant—given by All-Maine Women—Coburn Green
4:30-6:00	President and Mrs. Hauck—"At Home"

Saturday, June 8

7:45 A.M.	Class Breakfasts
8:45	Reunion Class Meetings in headquarters rooms
9:00	Board of Trustees Meeting
10:00	General Alumni Association Annual Meeting—Alumni Hall
12:30 P.M.	Alumni Luncheon—in honor of Fifty-Year Class, 1890—Alumni Memorial
2:00	University of Maine Foundation Annual Meeting
2:00-2:30	Band Concert—The Oval
2:30-3:30	Frolics—The Oval
3:30-5:00	Alumnae Tea—Merrill Hall
3:45	Baseball Game—Alumni *vs.* Seniors— Baseball Field
5:30	Alumni Parade
6:00	Alumni Banquet—Alumni Memorial
9:30	Alumni Hop—Alumni Memorial

Sunday, June 9

10:30 A.M.	Baccalaureate Service—Alumni Memorial
6:45 P.M.	Senior-Alumni Sing—The Oval

Monday, June 10

9:30 A.M.	Commencement Exercises—Alumni Memorial

Degrees Conferred, 1940

COLLEGE OF AGRICULTURE

Bachelor of Science

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Richard Warren Akeley, *With Distinction* ..... Presque Isle
James Hanlon Ashby ..... Caribou
William Dwight Barrell ..... Turner
Woodbury Lee Berce, Jr. ..... Washburn
Kenneth Joseph Bouchard ..... Caribou
Philip Edward Curtis ..... Caribou
Walter Edward Hanley, *With Highest Distinction* ..... Orono
Louis Tolman Harris ..... Milo
Clayton Wendall Howard ..... North Monmouth
Joseph Myron Johnson, *With High Distinction* ..... Harrison
Paul Leslie Johnson ..... Brooks
Arnold Clifford Lane ..... Brewer
Malcolm Stevens Loring ..... Portland
Eugene Lawrence McLaughlin ..... Limestone
Wendall Seavey Milliken ..... Portland
Herbert Stanley Peabody ..... Houlton
Earle Sidney Pierce ..... Old Town
Malcolm Woodbury Roberts ..... Alfred
Frank Eric Upton ..... Monticello
Clifton Eugene Whitney, *With Distinction* ..... Winn
Gleason Woodrow Wilson ..... Jonesboro

IN AGRICULTURAL EDUCATION

Oscar Romuald Martin ..... Frenchville

IN AGRONOMY

Albert James Bouchard ..... Caribou
Alton George Bridges ..... Mars Hill
Robert Elmer Craig ..... Westfield
Lawrence Nathaniel Eveleth, *With Distinction* ..... Auburn
Myron Stewart Gartley, *With High Distinction* ..... Presque Isle

Ralph Tozier Grant ..... Presque Isle
Joseph Leonard Harrington, *With High Distinction* ..... Patten
Erwin Lovett Heald ..... Lincolnville
Adrian Lucien Morneault ..... Lille
Alvah Edward Pangburn ..... Caribou
Blake Harmon Smith ..... Exeter
Donald Calvin Smith, *With Distinction* ..... Easton
Ralph Getchell Smith, *With High Distinction* ..... Exeter

IN ANIMAL HUSBANDRY

Edward Jay Cook, Jr. ..... Rutland, Vt.
Stanley Richard Gates ..... South Paris

IN BIOCHEMISTRY

Paul Aurele Albert, *With Distinction* ..... Presque Isle
Bernard Clarence Robbins ..... Gardiner
George Gerald Schmidt ..... Forest Hills, L. I., N. Y.
Ralph Francis Whicher ..... Springvale

IN DAIRY TECHNOLOGY

Orman Pearl Hunt ..... Clinton
Fred Holway Schoppee, Jr. ..... Machias
Frederick Wayne Turner ..... Stetson
Norman Eveleth Whitney, *With Highest Distinction* ..... West Newton, Mass.

IN FORESTRY

John Chase Alley, *With Distinction* ..... Portland
Earle Dutton Bessey, Jr. ..... Brooks
Edward Kenneth Brann ..... Plainfield, N. J.
Harold Clark Bronsdon ..... Newton Centre, Mass.
Gerard James Burke ..... Concord, Mass.
Francis Joseph Buss ..... Central Falls, R. I.
Eldon Ralph Clark, *With High Distinction* ..... Dennysville
Stuart Lavers Currier ..... Sandwich, Mass.
George Tabor Digby ..... Hallandale, Fla.
Carleton Paul Duby ..... Bradley
Francis Patrick Golden ..... Hampden Highlands
William George Goodrich, Jr. ..... Morrisville, Vt.

Douglas Elliot Gray ..... Warren
Harry Horn Halliday ..... Newtonville, Mass.
William Henry Hatch ..... Dark Harbor
Richard Holmes ..... Northeast Harbor
Fred Edward Holt, *With Distinction* ..... Oxford
Chester Morris Lado, *With Highest Distinction* ..... Waterville
Warren Rupert McNeil ..... Bath
John Thornton Maines ..... Hartford, Conn.
John Ambrose Marsh ..... Bridgeport, Conn.
Eugene Lincoln Moore ..... Houlton
Orie Osman O'Brien ..... Brooks
Paul Keith Patterson ..... Willimantic
John Harold Pratt ..... Oxford
Linwood Browne Ridlout ..... Bowdoinham
Arlo Norman Spencer ..... Bradley
Harold Yager Stockholm ..... Poughkeepsie, N. Y.
Roger Boardman Trask, *With Distinction* ..... Bangor

IN HOME ECONOMICS

Ruth Desjardins Arbo ..... Old Town
Elizabeth Rae Armstrong ..... Vanceboro
Janet Emily Blake ..... LaGrange
Mary Ellen Buck, *With Distinction* ..... Monticello
Carolyn Frances Calderwood ..... Vinalhaven
Marjorie Eleanor Copper ..... Clayville, N. Y.
Mary France Cooper ..... Beverly Farms, Mass.
Mary Cecilia Curran ..... Lewiston
Marjorie Bowman Deering ..... Orono
Dorrice Helen Dow ..... Bangor
Marcia Jannette Finks ..... Portland
Eileen Mary Flanagan ..... Bangor
Marguarite Lucile Hall, *With Distinction* ..... Orono
Ann Arlene Hart ..... South Hope
Mary Sylvia Jackman ..... Mount Vernon
Elspeth Burnett Johnson ..... Gloucester, Mass.
Mary Elizabeth Jones ..... Sumner
Mary Charlotte Kennedy ..... Monmouth
Rachel Woodman Kent ..... Bangor
Elizabeth Marie Kruse ..... Bangor
Catherine Scribner Lappin ..... Ellsworth
Helengrace Lancaster ..... Old Town

Estelle Merrill Lawrence ..... Gray
Elizabeth Libbey ..... Milford, Mass.
Ruth Winifred McClelland ..... Clinton, Conn.
Muriel Margaret Murphy ..... Fort Fairfield
Margaret Hall Peaslee ..... Concord, N. H.
Dorothy Elizabeth Phair ..... Limestone
Annette Youngs Redman, *With Distinction* ..... Bangor
Frances Eleanor Rhoda ..... Milo
Eleanor Maxine Robertson, *With Distinction* ..... Portland
Dorothy Helene Rubinoff ..... Portland
Margaret Claire Sawyer ..... Gray
Anna Margaretha Simpson ..... South Gray
Margaret Olive Steinmetz, *With Distinction* ..... Orono
Doreen Mildred Trask ..... Farmington
Marion Rhoda Tufts, *With Highest Distinction* ..... South Berwick
Helen Althea Warner ..... Bangor
Edith Irene Whitman ..... Stonington
Ruth Mabel Worcester ..... Newtonville, Mass.
Constance Young ..... Norway

IN HORTICULTURE

William King Brooks ..... Portland
Kenneth George Burr ..... Kennebunk
Raymond John Calvo ..... New York, N. Y.
John Preston Reed ..... South Brewer
Wayne Fonda Shipman, Jr. ..... Worcester, Mass.
Richard Marvard Smith. *With Distinction* ..... Orono

IN POULTRY HUSBANDRY

John Wesley Burns ..... Union
Walter Edwin Potter ..... Sabattus
John Albert Rand ..... North Anson

IN WILDLIFE CONSERVATION

Fred Robert Bucklin ..... South Warren
John Frederick Dequine ..... Long Branch, N. J.
William Carl Dimick ..... New Haven, Conn.
Harold Jacobson Dyer ..... Gorham
Stanley Paul Linscott ..... Cornish

Robert Stanton Merrill ..... Gray
Donald Horatio Moore ..... Beverly, Mass.
Gerald Ellsworth Spofford, *With Distinction* ..... Kennebunk
Jerome Irving Steeves ..... Lincoln
Gauthier Abel Thibodeau ..... Orono

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

IN BUSINESS ADMINISTRATION

John Everett Bolan ..... Winterport
Charles Henry Clough, Jr. ..... Blue Hill
Wilbur Leonard Cuzner ..... Belfast
Norman Frederick Fay ..... Needham, Mass.
James Joseph FitzPatrick, Jr. ..... Marblehead, Mass.
Richard Goldsmith ..... Salem, Mass.
Stewart William Grimmer ..... Portland
Frederick John Johnston ..... Bangor
Raymond Randall Johnston, Jr. ..... Fort Fairfield
Andrew Gowen Lindsay ..... North Monmouth
James Stanley McCain ..... Houlton
Walter Melvin Schultz ..... Portland
Atwood Oba Smart ..... Houlton

IN CHEMISTRY

Josephine Anne Freeman ..... Portland

IN DRAMA

Ruth Elizabeth Trickey ..... Pittsfield

IN ECONOMICS

Norris Stanwood Adams ..... Portland
Frank Maurice Beckerman ..... Brookline, Mass.
Carl Johansen Blom ..... Portland
John Davis Carlisle ..... Bangor
Vincent Victor Checchi ..... Calais
Robert Tristram Coffin ..... Brunswick

Roger Cotting ..... Newton, Mass.
Allan Frederick Goud ..... Augusta
Edwin James Lanigan ..... Belmont, Mass.
John Richmond Sheedy ..... Portland
James Cople Shiro ..... Old Town
Marthon Gregory Tolman ..... Portland

IN ECONOMICS AND BUSINESS ADMINISTRATION

Edward Chesseldon Bullard ..... Glens Falls, N. Y.
James Joseph Connolly ..... Portland
William Joseph Finnigan ..... Portland
Joseph Herman Glasser ..... Roxbury, Mass.
Robert Canfield Knowlton ..... Westbrook
Paul Eugene Morin ..... Cranston, R. I.
Kenneth Llewellyn Thomas ..... Portland

IN ENGLISH

Marguerite Connor Bannigan ..... Waterville
Virginia Lucille Barstow, *With Honors* ..... Brewer
Marion Hannah FitzGerald ..... Newburgh, N. Y.
Margaret Ernestine Hauck, *With Distinction* ..... Orono
Pauline Winifred Jellison, *With Honors* ..... Bangor
Louise Ohnesorge Leafe ..... Kennebunkport
Conrad Wayman McDowell ..... Portland
Phyllis Ruth Marks ..... Brookline, Mass.
Elizabeth Catherine Mulholland ..... Lubec
Raymond Jordan Palmer ..... West Roxbury, Mass.
Ada Edythe Saltzman ..... Bangor
Elnora Louise Savage, *With High Honors* ..... Bangor
Dorothy Elizabeth Shiro ..... Bar Harbor
Basil Lougee Smith ..... Winterport
Frances Priscilla Thomas ..... Houlton
Frederick Clark Thurston ..... Bangor

IN FRENCH

Jeanette Louise Bonville ..... Presque Isle
Kathleen Esther Duplisse ..... Old Town
Norma Leone Sylvester ..... Deer Isle
Louis Henri Thibodeau ..... Rumford

Marie Gertrude Bernadette Tondreau ..... Brunswick
Mary Adelaide Upham ..... Biddeford

IN GOVERNMENT AND ECONOMICS

Clarence LeRoy Pratt ..... Bangor
William Wardwell Treat ..... Winterport

IN HISTORY

Sumner Starrett Clark ..... Cape Elizabeth
Dorothy Day ..... Orono
Helma Katrina Ebbeson, *With High Honors* ..... Bangor
Ernest Ellis ..... Orono

IN HISTORY AND GOVERNMENT

Myer Alpert, *With High Honors* ..... Bangor
Daniel Joseph Caouette ..... Skowhegan
Fred Melville Cogswell, Jr. ..... Danvers, Mass.
Peter Gotlieb ..... Bangor
Virginia Frances Pease ..... Wiscasset
Charles Albert Peirce, Jr. ..... Bangor
Donald Tennyson Sparks ..... Phillips
Linnea Beatrice Westin, *With High Honors* ..... Bangor
Joyce Clara Woodward ..... Auburn

IN MATHEMATICS

Edith Mae Hurley ..... Skowhegan
Clyde Percival Jones ..... Bangor
Boynton Locke, Jr. ..... Boothbay Harbor
Anne Elizabeth Perry ..... Bangor
Gridley Weatherbee Tarbell ..... Bangor
Virginia Margaret Tuttle, *With Distinction* ..... East Corinth

IN PHILOSOPHY

William Ellis Davies ..... Wollaston, Mass.
Charlotte Elizabeth Olson ..... Orono

IN PHYSICS

Harold Aldrich Gerrish, *With Distinction* ..... Lisbon Falls

IN PSYCHOLOGY

Irvia Hinckley Crabtree ..... Blue Hill
Jane Dyer ..... Framingham, Mass.
Ruth Madeline Leavitt ..... Old Town
Francis Ward Lovering ..... Tyngsboro, Mass.
Helen Louisa Maling ..... Kennebunkport
Mary Pond Phelps ..... Foxboro, Mass.
Robert Wentworth Samuelson ..... Waban, Mass.
Neil Gould Sawyer ..... Easton
Mary Scribner ..... Topsham
Irene Burr Spruce ..... Orono
Julia Winifred Warren ..... Lubec
Geraldine Eames Watson ..... Bangor
William Francis West, Jr. ..... Bangor
Marion Louise White ..... Bangor

IN ROMANCE LANGUAGES

Patricia Kathryn Gogan, *With Distinction* ..... Orono

IN SOCIOLOGY

Priscilla Hope Bickford ..... Portland
Loren Woodbury Dow ..... Bangor
Miriam Natalie Golden ..... Bangor
Charles Wentworth Knowlton ..... Carmel
Donald Alexander Scanlin ..... Newport

IN SOCIOLOGY AND PSYCHOLOGY

Phyllis Esther Brown ..... Ocean Park
Ruth Natalie Fessenden ..... Portland

IN SPANISH

Margaret Maxwell ..... Bangor

IN ZOOLOGY

James Donald Clement, Jr. ..... Bangor
Robert Vincent Cullinan ..... South Portland
Alice Ann Donovan ..... Houlton

Raymond Dyer Higgins ..... Dennysville
Jane Holmes ..... West Winfield, N. Y.
Thomas Franklin Kane, Jr. ..... Portland
Edwin Moor Lord ..... Skowhegan
Robert Elwood Murphy ..... Oakfield
Alvalene May Pierson, *With High Distinction* ..... Tenants Harbor
Ralph Lawrence Pipes ..... Houlton
Lucie Adelaide Pray ..... Melrose, Mass.
Robert Brewer Robertson ..... Presque Isle
Paul Joseph Roche ..... Eastport
Marianne Louise Russell ..... Phillips
Theodore Mordecai Stone ..... Dorchester, Mass.
Maynard Erwin Swartz ..... Roxbury, Mass.

SCHOOL OF EDUCATION

Bachelor of Arts in Education

Hope Adelaide Jackman ..... Orono

Bachelor of Science in Education

Ervin Alexander Arbo, *With Distinction* ..... Brownville
Dorothy Eleanor Babcock ..... Bangor
Charles Donald Brown ..... Eastport
Frederick Beach Crane ..... Afton, N. Y.
Barbara Ellen Crocker ..... Fort Kent
Wendell Gordon Eaton ..... Dexter
Ella Mabel Glines ..... Unity
Felix Anthony Gloden ..... Mexico
James Arnold Harmon ..... Presque Isle
Arthur Alexander Henderson ..... Anson
Wayne Victor Hoy ..... Sherman Mills
Benjamin Shattuck Humphries ..... Perry
Howard Lozier Jellison ..... Surry
Daniel Lenhart Kelley ..... Eastport
Stanley Morse Libby ..... Chebeague Island
Mildred Eddy McGuire ..... Bangor
Asenath Lucille Maddocks ..... Brewer
Anne McManus Martin ..... Eagle Lake
Everett Herrick Nason ..... Brunswick

Amorette Bryer Nickerson ..... Winterport
Clarence Henry Merrill Perry ..... Wayne
John Wallace Pillsbury ..... Benton Station
Glenn Meredith Robinson ..... Bangor
Alice Patricia Roth ..... Stratford, Conn.
Lena Muriel Tripp ..... Salisbury Cove
Philmore Burlon Wass ..... Machias
Barbara Louise Welch ..... Bangor
Evelyn Ruth Woods ..... Gorham
Hugh Edwin Young ..... Aurora

Bachelor of Science in Commercial Education

Russell Edward Crockett ..... Houlton
Ivie Wendell Mann ..... South Brewer
Anthony Joseph Rogers ..... Bangor
Lois Elizabeth Stinson ..... Stonington

Bachelor of Science in Fine Arts Education

Ruth Frances Erlick ..... Portland
Marion Elizabeth Fairchild ..... Portland
Ellen Heath Stevens ..... Bath

COLLEGE OF TECHNOLOGY

Bachelor of Science

IN CHEMICAL ENGINEERING

Wallace Ames Beardsell, *With Distinction* ..... Weston, Mass.
Leon Joseph Breton, *With Highest Distinction* ..... Rumford
Lyle Alton Butler, Jr. ..... Gardiner
Gordon Palmer Carter ..... Brewer
John Harry Derry ..... Rumford
Benjamin Walter Ela, Jr. ..... North Anson
Hazen Betford Hannan ..... Liberty
Louis Daniel Hennessy ..... Brewer
Philip Joseph Hinkley ..... Cumberland Mills
Allston Prentice Keyes ..... Washington, D. C.
Wiljo Maurice Lindell, *With Highest Distinction* ..... Warren
Beverly Ross Nason ..... Old Town

Harley Cummings Nelson ..... Reading, Mass.
Henry Paul Pryor ..... Union City, Conn.
Eugene Osborne Russell, *With Highest Distinction* ..... Yarmouth
Robert Frank Stewart ..... Winthrop
Linwood Gerald Willins ..... Bucksport

IN CHEMICAL ENGINEERING—PULP AND PAPER DIVISION

Theodore Pinkham Chandler ..... South Paris
Abraham Knobler ..... Jamaica, N. Y.
Charles Wilson ..... Eastport

IN CIVIL ENGINEERING

Donald Elmer Bither ..... Linneus
John Robert Cameron ..... Broadalbin, N. Y.
Francis Leroy Cramer ..... Bristol
Edward Everett Davis ..... Burnham
Clarence Elmer Dennis ..... Rumford
Lawrence John Gleason ..... Bangor
John Norman Harris ..... Anson
Emil Franklin Hawes ..... Bangor
Richard Edwin Hebel ..... Brewer
Harold Donham Higgins ..... Lewiston
Vernon Lord Kimball ..... Sangerville
Carl Alexander McEachern ..... Greenville Junction
Fred Patterson Merrill ..... Bangor
William August Rader ..... Westfield, N. J.
Ralph Milton Reynolds ..... Orono
Octave Francis Richard ..... Bangor
Parker Osborne Stuart ..... Bridgton
Guy Susi, *With Distinction* ..... Pittsfield
George Merrill Thomas ..... Rumford
Charles Lancaster Weaver ..... Presque Isle

IN ELECTRICAL ENGINEERING

Clark Wainwright Browne ..... North Abington, Mass.
Harry Melcher Byram ..... Freeport
Norman Lewis Danforth, Jr. ..... Bucksport
Herbert Wendell Farrar ..... Hingham, Mass.
Howard Marshall Kenney ..... Millinocket

Raymond Lee Morong ..... Madison
Edwin Stanton Rich, *With Highest Distinction* ..... Charleston
Winfield Clinton Smith ..... Richmond, Va.
Louis Striar ..... Bangor
Richard Leighton Tremaine ..... Bangor

IN GENERAL ENGINEERING

Albert Edgar Bahrt ..... North Islesboro
Robert Harlan Bonney, *With Highest Distinction* ..... Portland
William Heywood Chandler, *With Highest Distinction* ..... Portland
Robert Harry Levis, II ..... Alton, Ill.

IN MECHANICAL ENGINEERING

Harlow Dailey Adkins ..... Norway
Burton Hathaway Albee ..... West Roxbury, Mass.
Earl Grant Bacon ..... Oakland
Howard Francis Blake ..... Portland
William Sumner Bower, *With Distinction* ..... Auburn
Robert Wentworth Burleigh ..... Boothbay Harbor
Douglas Harold Carr ..... Dexter
Bernard Cohen ..... Biddeford
William Sherwood Cook, *With Distinction* ..... Tenants Harbor
Ronald Arno Dyke ..... Livermore Falls
Arlo Eugene Gilpatrick ..... Mars Hill
Gooden Gray ..... South Brooksville
Stephen Keith Gross, *With Distinction* ..... Camden
Robert John Hamilton ..... Madison
Stanley Robert Holland, *With Distinction* ..... Portland
Preston Oliver Howard, Jr. ..... Rumford
James Harold Hunter ..... West Roxbury, Mass.
Philip Allen Hutchinson, *With High Distinction* ..... West Buxton
Russell Paul Leafe ..... Kennebunkport
Robert William MacDonald ..... York Village
Lawrence Louis McPhee ..... Old Town
Leonard Lamont McPheters ..... Bangor
Linwood Snider McPheters ..... Bangor
Donald McCutcheon Marshall ..... Bath
Frank Samuel Martin ..... Bath
Richard Gwynne Morton, *With Highest Distinction* ..... Farmington
Harry Servatus Nelson, Jr. ..... North Vassalboro

Roy Claude Raymond ..... Mars Hill
Cecil Edward Reed ..... Southwest Harbor
Nathan Harold Rich ..... Charleston
Arthur William Richardson ..... Poland
Frederick Wilbur Robie ..... Auburn
Richard Miles Sawyer, *With Distinction* ..... Portland
Edward Waldron Stanley, *With Highest Distinction* ..... Farmington
Merrill Gene Thompson ..... Southport
Rees Coffin Williams ..... Westwood, Mass.

ADVANCED DEGREES

Master of Arts

IN ECONOMICS AND SOCIOLOGY

Charles Chester Hicks (B.A., Colby, 1931) ..... Beals
Title of Thesis: The Bangor and Aroostook Railroad and the Development of Northern Maine

IN EDUCATION

Cecil Jewett Cutts (B.A., Maine, 1925) ..... Hartland
Title of Thesis: Tenure of Principals in the Class A Secondary Schools of Maine from 1929 to 1938

Raymond Stevens Finley (B.A., Maine, 1925) ..... Skowhegan
Title of Thesis: The History of Secondary Education in Kennebec County in Maine

George Francis Guyette (Ph.B., Brown, 1928) ..... Woonsocket, R. I.
Title of Thesis: A Study of the Survival of Certain Neologisms and 17th Century French Words and Expressions among Pupils of French-Canadian Descent in the Woonsocket High School, Rhode Island, with a View to Determining Whether or Not this Survival Warrants Remedial Teaching

Ellen Mary Mullaney (B.A., Maine, 1930) ..... Bangor
Title of Thesis: The Relationship between Silent Reading Ability and Arithmetic Ability in the Seventh Grade

Hilda Schwenk Reary (Ph.B., Muhlenberg, 1934) ..... Boyertown, Pa.
Title of Thesis: A Study of the Speech Needs of High-school Students in a Pennsylvania German Community

CATHERINE PAULINE ROGAN (A.B., B.E., College of St. Elizabeth, 1935, 1938) ..... Bangor
Title of Thesis: An Analysis of Certain Experimental Literature on the Theory of Mental Discipline

RALPH ROCHEFORT WHITE (B.A., Wesleyan University, 1932) ..... New Haven, Conn.
Title of Thesis: The Use of Projected Visual Aids in the Secondary Schools of Maine with Particular Emphasis on the Use of Motion Pictures

IN ENGLISH

PHILIP JUDD BROCKWAY (B.A., Maine, 1931) ..... Orono
Title of Thesis: Sylvester Judd (1813-1853), Novelist of Transcendentalism

KATHERINE AMANDA CONLEY (A.B., Beaver, 1925) ..... Bath
Title of Thesis: James Athearn Jones (1791-1854): A Critical Biography

WINIFRED LOESCH DUSENBURY (B.S., Wisconsin, 1937) ..... Orono
Title of Thesis: A Study of the Sources of Thomas Godfrey's *The Prince of Parthia*

HENRIETTA ELIZABETH FORDE (A.B., Mount Allison, 1939) ..... Cookshire, Quebec, Canada
Title of Thesis: The Character of Cressida from Benoît to Dryden

CLARA VIRGINIA TEWKSBURY (B.S. in R.E., Boston University, 1931) ..... North Brooksville
Title of Thesis: Romantic Elements in Contemporary Maine Novelists

IN FRENCH

BERNARD JEROME MANN (B.A., Maine, 1933) ..... Bangor
Title of Thesis: An Investigation of Boy Scouting in the French-Speaking Associations of France, Belgium, and Canada

IN HISTORY AND GOVERNMENT

IRENE COUSINS (B.A., Maine, 1911) ..... Brewer
Title of Thesis: General Henry Knox, the Country Gentleman

Rosella Adeline Loveitt (B.A., Maine, 1930) ..... South Portland
Title of Thesis: The Social History of Portland, Maine, from 1840 to 1860

Maple Ismay Percival (B.A., Maine, 1929) ..... Dexter
Title of Thesis: An Investigation of the Mill Development of Aroostook County

Margaret Fowles Wilde (B.A., Maine, 1932) ..... Lisbon Falls
Title of Thesis: History of the Public Land Policy of Maine, 1620-1820

IN LATIN

Bertha Violet Canon (B.A., Smith, 1912) ..... Rockaway, N. J.
Title of Thesis: The Religious Vocabulary of the Corpus Tibullianum

IN MATHEMATICS

Alfred Parker Mallet (B.A., Maine, 1939) ..... South Portland
Title of Thesis: Technique Procedure-Patterns in Social Statistics

Ross Patterson Spear (B.A., Maine, 1930) ..... East Corinth
Title of Thesis: The Determination of the Latitude of the Observatory at Orono (New Location)

Beryl Elisabeth Warner (B.A., Maine, 1935) ..... Bangor
Title of Thesis: A Reorganization in the Continuity of Subject Matter in Mathematics

IN ZOOLOGY

Rosemary Beatrice Durick (B.A., New Brunswick, 1938)
..... Newcastle, N. B., Canada
Title of Thesis: The Effect of Theelin Injections on the Incidence of Spontaneous Mammary Tumors in Mice

Henry Michael Kroll (A.B., Clark, 1938) ..... New York, N. Y.
Title of Thesis: Interrelationships between Potassium and Acetylcholine in their Action on Intestinal Muscle

Agnes Lucy Mansfield (A.B., Smith, 1938) ..... New Haven, Conn.
Title of Thesis: A Study of Parasitic Ciliates of the Genus *Trichodina*

Master of Science

IN AGRONOMY

RONALD EUGENE BARNES (B.S., Maine, 1938) ..... Fort Fairfield
Title of Thesis: An Evaluation of Soil Conservation Practices under Aroostook Conditions

IN BACTERIOLOGY

JOHN ORVIN MUNDT (B.S., Wisconsin, 1938) ..... Watertown, Wis.
Title of thesis; Some Factors Influencing the Lactose Metabolism of Atypical Coliform Organisms

IN BIOCHEMISTRY

JAMES HOWARD FRY (B.S., Pennsylvania State, 1938) ..... Harrisburg, Pa.
Title of Thesis: Chemical and Antigenic Studies of Certain Fractions of *Salmonella pullorum*

IN BOTANY

PAUL RAYMOND GORHAM (B.A., New Brunswick, 1938)
..... Fredericton, N. B., Canada
Title of Thesis: The Effects of Certain Environmental Factors on the Growth and Reproduction of *Lemna minor* L.

EDITH BOLAN OGDEN (B.A., Maine, 1933) ..... Orono
Title of Thesis: The Ferns of Maine

IN CHEMISTRY

NELSON BRADFORD CARTER (B.S., Maine, 1938) ..... Brewer
Title of Thesis: The Catalytic Reduction of the Organic Nitro-Compound—2, 4 - Dinitroanisole

HARRY DREW CRANDON (B.S., Maine, 1929) ..... Stillwater
Title of Thesis: Chemical Investigation of the Products Obtained from Maine Balsam Fir Needles

AMASA STANLEY GETCHELL (B.S., Maine, 1938) ..... Bangor
Title of Thesis: The Chemical Composition of White Potatoes

DONALD HOYT KELLY (B.S., New Hampshire, 1938) ..... Newton, N. H.
Title of Thesis: An Investigation of the Interference of the Arsenous Ion in the Determination of the Other Cations

ALAN FRED KIRKPATRICK (B.S., Maine, 1939) ..... Old Orchard Beach
Title of Thesis: A Study of Ring Closure in Small Carbon Rings

GEORGE EDWIN PHILBROOK (B.S., Maine, 1938) ..... Tenafly, N. J.
Title of Thesis: The Synthesis of Some Organo-Selenium Compounds

CHARLES WALTER ZIEMER (B.S., Utah State Agricultural College, 1938) ..... Ogden, Utah
Title of Thesis: An Investigation of the Electrochemical Properties of Lignin Sulfonates

IN CHEMICAL ENGINEERING

FRANK ABEL ANDERSON (A.A., Junior College of Connecticut, 1934; B.S., Southern California, 1936) ..... Bridgeport, Conn.
Title of Thesis: A Correlation of Drying Rate Curves of Cylinder Dried Paper with Variable Sheet Characteristics

IN DAIRY INDUSTRY

DONALD BARTLETT POPE (B.S., University of Illinois, 1938) ..... Peoria, Ill.
Title of Thesis: An Investigation of Factors Causing Difficult Churning

IN PHYSICS

FREDERICK BARBOUR OLESON (A.B., Colby, 1938) ..... Orono
Title of Thesis: An Investigation of the Variation of Dispersion and Refractive Index of Carbon Dioxide with Density

Master of Science in Education

EMMA BARBARA GARDY (B.S. in Ed., University of Pennsylvania, 1926) ..... Pottsville, Pa.
Title of Thesis: A Critical Review of Literature on Extracurricular Finances

VIOLA IYDELLE MUNYAN (B.S. in Ed., Framingham State Teachers, 1930) ..... Salem, Mass.
Title of Thesis: The Development of a Course of Study in Homemaking for Fifth, Sixth, Seventh, and Eighth Grade Girls

Master of Education

Lindon Edwin Christie (B.S., Colby, 1930) ..... Monson
Title of Paper: Meeting Individual Differences in a Small Maine Secondary School

William Meloy Farris (B.S. in Ed., Boston University, 1935) ..... Stockton Springs
Title of Paper: Curriculum Building by Teachers in Service

William Henry Jenkins (B.S. in Ed., Maine, 1935) ..... Fort Fairfield
Title of Paper: The Teaching of Phonics

Serena Frances Jones (B.R.E., Boston University, 1925; M.A., 1928) ..... Woonsocket, R. I.
Title of Paper: An Investigation of the Problems Connected with the Migratory Student

Mildred Harriet Lowell (A.B., Lebanon Valley, 1929) ..... Lodi, N. J.
Title of Paper: A Study of Experimental Remedial Groups at the Ninth-Grade Level

Perry Foster Shibles (B.S., Colby, 1927) ..... Dover-Foxcroft
Title of Paper: A Proposed Administrative Program of Preventive Primary Reading

William Glen Springer (B.S., Colby, 1927) ..... Pittsfield
Title of Paper: A Study of the Six-year High School Program and Its Adaptability to Clinton High School

CERTIFICATE

IN THE TWO-YEAR COURSE IN AGRICULTURE

Edward Anthony Bessom ..... South Orleans, Mass.
Judson Bradford Cunningham ..... Patten
Amos Harold Fletcher ..... Caribou
William Robert Hardy ..... Hope
Arlie Bucknam Holman ..... Mexico
Richard Goodwin Mayo ..... Brewer
Maurice Allen Pottle ..... Lincolnville
Halston Blackstone Randall ..... Caribou
Earle Alfred Rankin ..... Melrose, Mass.
James Herbert Spalding, Jr. ..... Laconia, N. H.
Alan Fairbank Woods ..... West Hartford, Conn.
Donald Colby York ..... Windsorville

GENERAL HONORS

Myer Alpert	*High Honors*
Virginia Lucille Barstow	*Honors*
Helma Katrina Ebbeson	*High Honors*
Pauline Winifred Jellison	*Honors*
Elnora Louise Savage	*High Honors*
Linnea Beatrice Westin	*High Honors*

DEPARTMENTAL HONORS

College of Technology

IN CHEMICAL ENGINEERING

Wiljo Maurice Lindell
Eugene Osborne Russell

IN CIVIL ENGINEERING

Harold Donham Higgins

IN ELECTRICAL ENGINEERING

Edwin Stanton Rich
Winfield Clinton Smith
Richard Leighton Tremaine

IN MECHANICAL ENGINEERING

Stephen Keith Gross
Stanley Robert Holland
Philip Allen Hutchinson
Richard Gwynne Morton
Richard Miles Sawyer
Edward Waldron Stanley

The following received commissions as Second Lieutenant Officers' Reserve Corps

INFANTRY

Roger Stover Andrews
William Dwight Barrell
Harold Clark Bronsdon
Gerard James Burke
Francis Joseph Buss
Roger Cotting
Philip Edward Curtis
Carleton Paul Duby
Maynard Whitney Files
James Joseph FitzPatrick, Jr.
Harold Aldrich Gerrish
Stewart William Grimmer
Emil Franklin Hawes
Malcolm Stevens Loring
James Stanley McCain
Conrad Wayman McDowell
John Henry Maasen, Jr.
Paul Eugene Morin
Robert Elwood Murphy
Ralph Lawrence Pipes
George Gerald Schmidt
Norman Eveleth Whitney

COAST ARTILLERY

Harlow Dailey Adkins
Earl Grant Bacon
Albert Edgar Bahrt
Wallace Ames Beardsell
Leon Joseph Breton
Allyn Eugene Charpentier
James Gordon Cooper, III
Richard Edwin Hebel
Harold Donham Higgins
Stanley Robert Holland
Philip Allen Hutchinson
Allston Prentice Keyes
Joseph Rackliff Littlefield

HONORARY DEGREES

Frank Arthur Banks, Doctor of Engineering
Fred Engelhardt, Doctor of Laws
Frederick Hale, Doctor of Laws
Richard Matthews Hallet, Doctor of Letters
Will Russell Howard, Master of Arts
Anne Carroll Moore, Doctor of Humane Letters
Arthur Herbert Norton, Master of Science
William Hutchinson Rowe, Master of Arts

Catalog of Students

Major subjects are indicated as follows: Ae. Agricultural Education, Ag. Agronomy, Agr. Agriculture, Agr. Eng. Agricultural Engineering, Al. American Literature, An. Animal Husbandry, At. Art History, Ba. Business Administration, Bc. Biological Chemistry, Bl. Biology, 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), Eng. Ps. Engineering Physics, Es. Economics, Fm. Agricultural Economics and Farm Management, Fn. Foods and Nutrition, Fr. French, Fy. Forestry, Ge. General Engineering, Gm. German, Gt. Government, Hy. History, He. Home Economics, Ht. Horticulture, Jn. Journalism, Lt. Latin, L.A. & N. Liberal Arts and Nursing, Mc. Music, Me. Mechanical Engineering, Ms. Mathematics, Pa. Chemical Engineering—Pulp and Paper Division, Pc. Physiological Chemistry, Pg. Physiology, Ph. Poultry Husbandry, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Py. Psychology, Rl. Romance Languages, Sy. Sociology, Sp. Spanish, Sh. Speech, Wc. Wildlife Conservation, Zo. Zoology. Chemistry in the College of Arts and Sciences is indicated by Ch.A.

GRADUATE STUDENTS

Borden, Ruby Anne, B.Sc., Fn. Acadia University, 1940	*Wolfville, N. S., Canada*	3 Riverdale
Bowler, Charlotte Crosby, B.A., Eh. Wheaton College, 1926	*Bangor*	224 Nowell Road, Bangor
Browning, Neva Lenore, B.A., Ed. Maine, 1915	*Orono*	18 Myrtle Street
Cail, Robert Small, B.A., Zo. Maine, 1939	*Portland*	7 Park Street, Rear
Chaplin, Joseph Benjamin, B.S., Ed. Maine, 1921	*Bangor*	188 Fountain Street, Bangor
Clark, Eldon Ralph, B.S., Wc. Maine, 1940	*St. Johnsbury, Vt.*	Φ M Δ House

Clough, Eleanor Maxine, B.A., M.A., Ed. Mount Holyoke, 1937; University of North Carolina, 1938	*Bangor*	209 State Street, Bangor
Cooper, James, Jr., B.Ch.E., Ch.Eng. Pratt Institute, 1940	*Orono*	11 Beech Street
Dennett, Madeleine Annette, B.A., Ed. Trinity, 1940	*Bangor*	38 Elizabeth Avenue, Bangor
Drisko, Clarence Holmes, B.S., Ed. Maine, 1921	*Bangor*	64 West Street, Bangor
Dyer, Harold Jacobsen, B.S., Wc. Maine, 1940	*Gorham*	Σ A E House
Ela, Benjamin Walter, Jr., B.S., Ch.Eng. Maine, 1940	*North Anson*	83 Park Street
Ela, Jeanette Lamoreau, B.A., Ms. Maine, 1939	*North Anson*	83 Park Street
Ellis, Reed Hobart, Jr., A.B., Ps. Bowdoin, 1939	*Rangeley*	11 South Brunswick Old Town
Ennis, William Brice, Jr., B.S., Bl. Tennessee, 1939	*Martin, Tenn.*	25 Myrtle Street
Gillett, Gordon Edward, A.B., Hy. Bowdoin, 1934	*Old Town*	11 South Brunswick Old Town
Goodwin, Harry Allan, B.A., Wc. St. Anselm's, 1939	*Manchester, N. H.*	23 Park Street
Grady, Walter Thomas, B.S., Ce. Northeastern, 1940	*Roslindale, Mass.*	52 North Main Street
Guthrie, Robert, B.A., By. Minnesota, 1941	*Minneapolis, Minn.*	20 Grove Street
Harriman, Helen Louise, A.B., Ed. College of St. Elizabeth, 1936	*Cherryfield*	23 Myrtle Street
Harris, John Norman, B.S., Ce. Maine, 1940	*Anson*	6 Mill Street
Healy, Richard Wyman, B.A,, Ed. Maine, 1938	*Orono*	52 Park Street
Hendrickson, Karl Newcomb, B.S., Ce. Maine, 1938	*Brewer*	80 Pine Street

Johnson, Joseph Myron, B.S., Fm. Maine, 1940	*Harrison*	227 Main Street
Kandel, Herbert Jay, B.S., Ch.Eng. Virginia Military Institute, 1939	*Norfolk, Va.*	25 Myrtle Street
Kent, Frank Holmes, B.S. in Ed., Ed. Maine, 1939	*Milford*	Milford
Kittams, Walter Howeth, B.S., Wc. Utah State Agricultural College, 1939	*Great Falls, Mont.*	23 Park Street
Kyer, Marguerite Edith, B.A., Py. Maine, 1939	*Brewer*	236 Wilson Street, Brewer
Landon, Melvin Voorhees, A.B., Ps.* Williams, 1938	*Orono*	60 Park Street
Lekberg, Howard Parker, B.S., Me. Worcester Polytechnic Institute, 1932	*Orono*	43 Pine Street
Lewis, Laurice Ervin, B.S. in Ed., Ed. Maine, 1939	*Vassalboro*	59 Park Street
MacBride, Dorothy Helena, B.A., Zo. New Brunswick, 1940	*St. Stephen, N. B., Canada*	164 College Road
Maass, Herman Martin, B.S., Ch.Eng. State College of Washington, 1939	*Spokane, Wash.*	43 Peters Street
Maguire, Marie Louise, A.B., Es. & Sy. Bennington College, 1937	*Orono*	37 Pine Street
Marston, Merwin Abbott, B.S., Wc. Maine, 1939	*East Waterford*	Φ M Δ House
Merrill, Edward Osgood, B.S., Bc. Maine, 1938	*Orono*	178 Main Street
Merrill, Virginia Tuttle, B.A., Ms. Maine, 1940	*Kenduskeag*	38 Penobscot Street
Miller, Louise Brookes, B.A., Ed. Bethany College, 1931	*Orono*	66 College Road
Osborne, John Clark, B.S., An. Virginia Polytechnic Institute, 1939	*Independence, Va.*	25 Myrtle Street
Osgood, Carl Chapin, B.S., Me. Maine, 1938	*Ellsworth*	54 Hill Street
Peacock, Norman Morrow, B.Sc., Ch. New Brunswick, 1939	*St. John, N. B., Canada*	430 College Road

Perry, Mary Katherine, B.A., Ed. Maine, 1936	*Orono*	39 Pine Street
Reed, John Preston, B.S., En. Maine, 1940	*South Brewer*	R.F.D. 8, South Brewer
Rice, Enid Elva, B.A., Eh. Acadia University, 1940	*Petitcodiac, N. B., Canada*	36 College Road
Rogers, John Clinton, B.S., Di. Vermont, 1940	*Enosbury Falls, Vt.*	40 College Road
Savage, Elnora Louise, B.A., Eh. Maine, 1940	*Bangor*	127 Maple Street, Bangor
Sawyer, Clayton Leonard, B.A., Ch. Maine, 1938	*Orono*	Park Street
Shigley, James William, B.S., Bc. Pennsylvania State College, 1940	*State College, Pa.*	38 Oak Street
Simmons, Dana Maxwell, B.S., Hy. Colby, 1931	*Orono*	34 Forest Avenue
Simpson, Verne Gerald, B.S., Ch. South Dakota State College, 1940	*Brookings, S. D.*	430 College Road
Smith, David Patterson, B.S., Ch.Eng. Virginia Military Institute, 1940	*Shreveport, La.*	43 Peters Street
Steenstra, Edward Fitzgerald, B.S. in Ed., Ed. Maine, 1934	*Bar Harbor*	8 Brookside Avenue, Bar Harbor
Stinchfield, Roger Maxim, B.S., Ch.Eng. Maine, 1939	*Wayne*	52 Park Street
Storer, Clayton Alton, B.S., Ed. Maine, 1918	*Orono*	32 College Road
Takos, Michael James, B.S., Wc. Pennsylvania State College, 1940	*Pittsburgh, Pa.*	4 Myrtle Street
Tarbell, Jennie Elizabeth, B.A., Eh. Colby, 1937	*Smyrna Mills*	24 North Park Street, Bangor
Taylor, Frank Melroy, B.S., C.E., Ce. Lafayette, 1928, 1937	*Orono*	80 Forest Avenue
Thurston, Frederick Clark, B.A., Eh. Maine, 1940	*Bangor*	183 Hammond Street, Bangor
Topping, Francis Lawrence, B.A., Zo. Maine, 1935	*Milbridge*	45 Peters Street

Wakefield, Vachel Lindsay, A.B., Ed. Hiram College, 1930	*Bangor*	84 College Road
Walsh, John Henry, B.S., Pg. University of Scranton, 1940	*Scranton, Pa.*	38 Pierce Street
White, Marion Louise, B.A., Py. Maine, 1940	*Bangor*	359 Hammond Street, Bangor
Whitney, Clifton Eugene, B.S., Fm. Maine, 1940	*Winn*	14 Kell Street
Woodbury, Harold Mace, B.S., Ed. Maine, 1937	*Orono*	7 Park Lane
Wright, Charles Milton, B.S., Bt. University of Illinois, 1940	*Orono*	43 Main Street
Young, Hugh Edwin, B.S. in Ed., Es. Maine, 1940	*Aurora*	60 Forest Avenue

SENIORS

Adams, Albert Hayden, Pa.	*Canton*	Commons
Adams, Charles Edward, Me.	*Madison*	Σ A E House
Adams, Clarence Kempton, Fm.	*Easton*	A T Ω House
Alford, Wilson Merriman, Ce.	*Windsor, Conn.*	112 Oak Hall
Allen, Dorothy Irene, Hy.	*Bucksport*	Bucksport
Allen, Elwood Arthur, Ed.	*Livermore Falls*	59 Park Street
Alpert, Sidney Morris, Hy.	*Bangor*	455 Main Street, Bangor
Anderson, Frank Ernest, Ed.	*Richmond*	25 Grove Street
Anderson, Roy Laurel, Dt.	*Newport*	15 Park Street
Arbor, Charles Joseph, Es.	*Rumford*	102 Oak Hall
Arthur, Garfield Manning, Ee.	*Fitchburg, Mass.*	B Θ Π House
Ashworth, Barbara Rose, Eh.	*Orono*	88 North Main Street
Astor, David, Sh.	*Portland*	T E Φ House
Austin, Henrietta Isabelle, Ed.	*Fort Kent*	The Elms
Babel, William Keith, Bt.	*North Tonawanda, N. Y.*	35 Grove Street
Backer, Albert David, Dt.	*Brooklyn, N. Y.*	60 Park Street
Baker, Charles Leo, Me.	*Bucksport*	14 Island Avenue
Banton, Hartley Lanpher, Me.	*Newport*	A T Ω House
Barrett, Barbara, He.	*Orono*	11 Pierce Street
Bartley, Henry Havelock, Ag.	*Orono*	26 Island Avenue

Bates, Mary Lena, He.	*Bath*	Estabrooke Hall, North
Belknap, Russell Eliot, Me.	*Norfolk, Mass.*	B Θ Π House
Bell, Kenneth Dean, Me.	*Orono*	188 Main Street
Benjamin, Roger Olney, Pa.	*New York, N. Y.*	69 Forest Avenue
Berry, Rockwood Norton, Ht.	*Livermore Falls*	Men's Infirmary
Berry, Walter Edwin, Ed.	*Machiasport*	32 College Road
Besse, Beatrice Austin, Ed.	*Brooks*	23 Bennoch Street
Beverage, Ray Jasper, Me.	*North Haven*	104 Main Street
Billings, Paul Clayton, Ch.Eng.	*Stonington*	A T Ω House
Blaisdell, Donald, Ee.	*Reading, Mass.*	Φ K Σ House
Blaisdell, Kenneth Wilbur, Es.	*Ellsworth*	Φ K Σ House
Bond, Avery Lindley, Me.	*Jefferson*	50 Pine Street
Boone, Mary Elizabeth, He.	*Presque Isle*	Estabrooke Hall, South
Booth, William Roberts, An.	*Cumberland Center*	A Γ P House
Boyle, Harry Louis, Jr., Ee.	*Bangor*	Φ Γ Δ House
Boyle, Jean Elisabeth, Dr.	*Madison*	The Elms
Boyle, Kathleen Mary, Eh.	*Madison*	The Elms
Bracy, Horace Gordon, Ba.	*Ogunquit*	Λ X A House
Bradbury, Dorothy Marie, Ed.	*Fort Kent*	Estabrooke Hall, South
Bramhall, Richard Arthur, Me.	*Quincy, Mass.*	B Θ Π House
Brawn, William Sylvanus, Ed.	*Islesboro*	38 Grove Street
Bridges, June Hanson, Zo.	*Calais*	Estabrooke Hall, South
Briggs, Frederick Olson, Ed.	*Augusta*	25 Grove Street
Briggs, Ruth Cloudman, Eh.	*Augusta*	Estabrooke Hall, North
Brody, Sidney Saul, Me.	*East Dedham, Mass.*	31 Hill Street
Brown, Brooks, Jr., Sh.	*Augusta*	Λ X A House
Brown, Carl Raymond, Ee.	*Levant*	Φ K Σ House
Brown, Leroy Clark, Dt.	*Farmington*	Kell Street
Brown, Miriam Agnes, He.	*Norway*	Estabrooke Hall, North
Brown, Priscilla Evelyn, He.	*Milford*	Milford
Brownell, Arnold Buffum, Fy.	*Cape Elizabeth*	Φ Γ Δ House
Brundage, Alfred Griswold, Fm.	*Danbury, Conn.*	Φ H K House
Buck, Raymond Wilbur, Jr., Ag.	*Monticello*	A Γ P House
Burden, Frederick Ernest, Gt.	*Orono*	38 Pine Street
Burney, Lawrence Edward, Fy.	*South Portland*	Λ X A House
Burpee, Howard Lemuel, Ht.	*Orono*	Bennoch Road
Burton, Blendin LeRoy, Eng.Ps.	*Bangor*	77 Webster Avenue, Bangor
Butterworth, Dale Jared, An.	*Franklin, Mass.*	Σ X House
Buzzell, Calista Louise, Dr.	*Milford*	Milford

Byer, David Louis, Ee.	*Bangor*	36 Essex Street, Bangor
Byrne, John Francis, Me.	*Marlboro, Mass.*	K Σ House
Cahill, Anna Robena, Ba. & Es.	*Bangor*	529 Main Street, Bangor
Candage, Byron Whitefield, Ce.	*Seal Harbor*	12 Park Street
Carlisle, Robert, Es.	*Bangor*	Φ Γ Δ House
Carr, George Raymond, Ms.	*Plattsburg, N. Y.*	18 Oak Street
Carter, Elton Stewart, Sh.	*Mapleton*	343 South Main Street, Old Town
Carver, Clara Ernestine, He.	*Vinalhaven*	Estabrooke Hall, North
Catir, Mary Evelyn, Ed.	*Portland*	Estabrooke Hall, South
Chamberlain, Everett Bacon, Fy.	*Belgrade Lakes*	University Cabin
Chapman, Mary Joan, He.	*Orono*	13 Park Street
Chapman, Mildred Lombard, He.	*Orono*	13 Park Street
Chase, Faulkner Earlmont, Es.	*Bryant Pond*	B Θ Π House
Chase, Gordon Elms, Ba.	*Bryant Pond*	B Θ Π House
Chase, Richard Holden, Ce.	*Sharon, Mass.*	B Θ Π House
Chase, Richard Raymond, Pa.	*Portland*	60 Forest Avenue
Chick, Olive Marguerite, Ed.	*Steep Falls*	The Elms
Chipman, Lester Duran, Ee.	*Mechanic Falls*	27 Wiley Street, Bangor
Christie, Alice Elizabeth, Hy.	*Grand Lake Stream*	Estabrooke Hall, South
Clark, Arnold Hinckley, Eng.Ps.	*Liberty*	18 Oak Street
Clement, John Caldwell, Es.	*Belfast*	Φ Γ Δ House
Colbath, Burton Monroe, Ag.	*Mars Hill*	25 Grove Street
Colby, John Seagrave, Hy. & Gt.	*South Paris*	Σ X House
Colley, Chester Arthur, Ba.	*Newton Centre, Mass.*	Φ K Σ House
Comstock, Corinne Louella, Hy. & Gt.	*Millinocket*	Balentine Hall
Condon, James Stevens, Me.	*South Brooksville*	12 Park Street
Conlan, Mabelle Blanche, Ms.	*Biddeford*	Estabrooke Hall, South
Cooper, Laurence Arthur, Jr., Ch.Eng.	*Auburn*	Λ X A House
Cote, Hermenegilde Paul, Es.	*Lewiston*	Θ X House
Cotton, George Benjamin, Ch.Eng.	*Auburn*	72 Main Street
Cowan, Frederick Walter, Fy.	*Portland*	Λ X A House
Craft, Laura Ursula, He.	*Bath*	Estabrooke Hall, North
Crandall, Quenton Kenwood, Sh.	*Presque Isle*	343 South Main Street, Old Town
Crane, Judson Burleigh, Me.	*Whiting*	Σ X House
Crosby, Isabella, Eh.	*Dexter*	Estabrooke Hall, North

Crouse, Frederick Marshall, Dh.	*Kents Hill*	Φ H K House
Culberson, Sara Louise, He.	*Easton*	Estabrooke Hall, North
Cummings, Robert Ambrose, Ms.	*Bryant Pond*	Σ N House
Cushing, Pauline Florence, Fr.	*Portland*	Estabrooke Hall, North
Dalrymple, Stewart Willard, Me.	*Newton Centre, Mass*	Λ X A House
Darveau, George Francis, Gt.	*Orono*	38 Middle Street
Day, Linwood McGuire, Eh.	*Westbrook*	34 Forest Avenue
Dearborn, John Bartholomew, Me.	*Ansonia, Conn.*	Φ Γ Δ House
Dearborn, Russ Parker, Me.	*Melrose, Mass.*	B Θ Π House
Delano, Raymond Frederick, Ph.	*East Corinth*	88 Park Street
Demant, William Hans, Fy.	*East Orange, N. J.*	Φ Γ Δ House
Devoe, Donald Brown, Ps.	*Bangor*	221 Elm Street, Bangor
DeWitt, Frank William, An.	*Sherman Mills*	25 Grove Street
Dexter, Franklin Dunbar, Eng.Ps.	*Martinsville, N. J.*	72 Main Street
Dinsmore, Joseph Smart, Jr., Ms.	*Bangor*	Θ X House
DiPersio, Robert, Ms.	*Meriden, Conn.*	85 Main Street
Doak, Camilla, He.	*Belfast*	Estabrooke Hall, North
Dole, Francis Henry, Ch.	*Bangor*	R. #2, Bangor
Dondis, Meredith Philip, Ba.	*Rockland*	T E Φ House
Douglas, Earl Graeme, Me.	*Hull, Mass.*	Σ N House
Drummond, Esther Hinckley, Eh.	*Arrowsic*	Estabrooke Hall, South
Duffey, Richard Vincent, Fy.	*East Orange, N. J.*	Λ X A House
Dumas, Paul Raymond, Fy.	*Rumford*	85 Main Street
Dunning, Clement Stevens, Dh.	*Brunswick*	Farm Boarding House
Duplissa, George Allan, Jr., Ba.	*Old Town*	90 Veazie Street, Old Town
Dyer, John Reed, Me.	*Augusta*	12 Park Street
Dyer, Wesley James, Ph.	*Norway*	A Γ P House
Earnshaw, John, Ee.	*Fall River, Mass.*	Σ N House
Edgecomb, Raymond Henry, Ch.Eng.	*Sebago Lake*	60 Forest Avenue
Edmunds, John Joseph, Ee.	*Mars Hill*	343 South Main Street, Old Town
Ehrlenbach, Howard Lincoln, Fy.	*North Tonawanda, N. Y.*	Φ H K House
Ellis, George Hathaway, Es.	*Orono*	29 Park Street
Emery, Clarence Eugene, Jr., Ag.	*Westbrook*	A Γ P House
Emery, Elizabeth Mason, He.	*Bucksport*	Estabrooke Hall, North
Ernst, Morris Alonzo, Ce.	*York Village*	A T Ω House
Evans, Joanna Holmes, He.	*Wiscasset*	Estabrooke Hall, North

Fairchild, Thomas Leonard, Fm.	*Jay*	Φ K Σ House
Farnham, Florence Julia, He.	*Lynn, Mass.*	Estabrooke Hall, South
Fenderson, Willard Edward, Zo.	*Calais*	102 H. H. Hall
Fifield, Alma Marguerite, Hy. & Gt.	*Brewer*	71 Parker Street, Brewer
Fisher, George Norton, Me.	*Wakefield, Mass,*	80 North Main Street
Friday, John Alexander, Fy.	*Schenectady, N. Y.*	B Θ Π House
Frost, Albert Hyldon, Ba.	*Dexter*	Φ M Δ House
Frost, Howard Robinson, Zo.	*Westfield, Mass.*	Φ Γ Δ House
Gallagher, Keith Navarre, Agr. Eng.	*Limestone*	395 College Road
Gammons, Elizabeth, Mc.	*East Greenwich, R. I.*	Estabrooke Hall, North
Gardner, Charles Sherer, Fy.	*Orono*	B Θ Π House
Gardner, Horace Leonard, Me.	*Freeport, L. I., N. Y.*	Φ M Δ House
Gardner, Moffat Alexander Cowan, Ed.	*Orono*	64 Hill Street
Garrison, Ruth Jeannette, Fr.	*Madison*	Estabrooke Hall, South
Garvin, Isabelle Baldwin, He.	*Alfred*	Estabrooke Hall, North
Genge, Clarence Kitchener, Me.	*Dexter*	27 Pierce Street
Gilman, Arnold Robert, An.	*Forest Hills, N. Y.*	14 Park Street
Gilman, George Dudley, Fy.	*North Abington, Mass.*	395 College Road
Gleason, Beatrice Helen, Eh.	*South Portland*	Estabrooke Hall, South
Godwin, Halsted Buel, Dr.	*Orono*	Ledge Hill Road
Goodchild, Donald Wood, Ch.Eng.	*Saco*	Φ K Σ House
Goodrich, Sidney Joseph, Me.	*Gorham*	A X A House
Goodwin, Miriam, Ed.	*North Anson*	Balentine Hall
Goodwin, Robert Burrill, Ee.	*Brewer*	119 Parker Street, Brewer
Goos, Phillip, Ms.	*Bangor*	94 Court Street, Bangor
Gosline, Walter Wadsworth, Ba.	*Gardiner*	40 Penobscot Street
Grant, Elizabeth Payson, He.	*Portland*	Estabrooke Hall, North
Grant, George Crandlemire, Py.	*Waterville*	North Hall
Gray, Margaret Alma, Hy.	*Sandy Point*	20 Forest Avenue
Greenlaw, David Sutton, Ch.Eng.	*Norway*	Σ X House
Greenlaw, Donald Olive, Ms.	*Jay*	Φ M Δ House
Greenwood, David Carroll, Me.	*Gardner, Mass.*	Σ N House
Griffin, Lloyd Wilfred, Eh.	*Bradford, Mass.*	University Cabin

Hagensen, Carl Philip, Ce.	*Bangor*	305 Essex Street, Bangor
Hall, Albert Ernest, Jr., Wc.	*Merchantville, N. J.*	University Cabin
Haley, James Henry, Ed.	*Whitneyville*	36 Grove Street
Hall, Charles Alfred, Zo.	*Castine*	Σ A E House
Hamilton, James Oliver, Me.	*Waterboro*	Φ M Δ House
Hamm, Harold Isaiah, Ba.	*Bangor*	Φ Γ Δ House
Hansen, Alma Mabel, Eh.	*South Portland*	Estabrooke Hall, South
Hanson, Fred Crowell, Me.	*Bangor*	Φ Γ Δ House
Harlow, Laurence Joseph, Pa.	*Barre Plains, Mass.*	85 Main Street
Harris, James William, Ba.	*Winchester, Mass.*	106 H. H. Hall
Hartwell, Henry Lloyd, An.	*Stetson*	88 Park Street
Hartwell, James Haywood, Ce.	*Trenton, N. J.*	7 Summer Street
Haskell, Stuart Phelps, Ed.	*Lee*	Stillwater
Hatchard, Donald Gordon, Ee.	*Tenafly, N. J.*	A T Ω House
Hawkins, Ada Towle	*Newfield*	17 Oak Street
Higgins, Foster L., Jr., Ed.	*Bangor*	202 Union Street, Bangor
Higgins, Ralph M., Ed.	*Bangor*	202 Union Street, Bangor
Hill, Albert Edwin, Ed.	*Warren*	University Cabin
Hiller, Robert Frederick, Fy.	*Foxboro, Mass.*	25 Myrtle Street
Hillson, Thelma Louise, Ed.	*Old Orchard Beach*	The Elms
Hodgdon, Kenneth Willis, Wc.	*Anson*	University Cabin
Holden, Miriam Elizabeth, He.	*Portland*	The Elms
Holmes, Allan Bragdon, Ee.	*Guilford*	Σ X House
Holyoke, Donald Brooks, Ag.	*Brewer*	Eastern Avenue, Brewer
Hook, Walter Allan, Ce.	*Portland*	Σ X House
Hopkins, Elizabeth Marian, Zo.	*Lexington, Mass.*	Estabrooke Hall, South
Hopkins, Emily Marjorie, Eh.	*Waterville*	Estabrooke Hall, North
Hopkins, Richard Samuel, Me.	*Bucksport*	Bucksport
Horne, Frances Taylor, Py.	*Portland*	Estabrooke Hall, North
Howe, Charles Leonard, An.	*Kingfield*	25 Grove Street
Howe, Robert Frank, Ag.	*Framingham, Mass.*	Φ Γ Δ House
Howe, Virginia Mae, Dr.	*Union*	20 Forest Avenue
Howes, Cecil Edgar, Ph.	*Patten*	Stockton Springs
Hoyt, John Folsom, Ce.	*Fort Fairfield*	Φ H K House
Humphries, Angus Edward, Fy.	*Perry*	Φ M Δ House
Hunt, Norman Earl, Fm.	*Clinton*	A Γ P House
Hutcheon, James Lewis, Ag.	*Presque Isle*	A T Ω House
Hutchins, Martha Elizabeth, Sh.	*Kingfield*	Estabrooke Hall, South

Ingalls, Earle Lewis, Fm.	*Portland*	Σ Α Ε House
Ingalls, Katherine Virginia, Ed.	*Ellsworth*	Estabrooke Hall, South
Ingham, Joseph Morton, Jn.	*Concord, N. H.*	Β Θ Π House
Irvine, Robert Mayes, Fy.	*Framingham, Mass.*	Φ Γ Δ House
Jackson, Floyd Frederick, Fm.	*Rumford*	Φ Κ Σ House
Jackson, Robert Allan, Ba.	*New Bedford, Mass.*	7 Gilbert Street
Jackson, Stephen Hamilton, Fy.	*Union, N. J.*	27 Myrtle Street
Jewell, Duncan Henry, Fm.	*Orono*	10 Main Street
Jewett, George Herbert, II, Fm.	*Bucksport*	Φ Γ Δ House
Jewett, Virginia Choate, He.	*Westport*	Estabrooke Hall, South
Johnson, Glenna Mae, He.	*Ashville*	Estabrooke Hall, North
Johnson, Stanley Fairfield, Fm.	*Brunswick*	395 College Road
Johnson, Vernon Elbert, Fy.	*Milford*	Main Street, Milford
Jones, Margaret Louise, He.	*Orono*	164 College Road
Judkins, Albert Edwards, Ph.	*Upton*	Α Γ Ρ House
Kelley, Arthur Louis, Ed.	*Fort Kent*	Σ Ν House
Kelley, Lawrence Babbitt, Pa.	*Bellows Falls, Vt.*	Φ Μ Δ House
Kennedy, Clair Arthur, Zo.	*South Brooksville*	64 Penobscot Street
Ketchum, Frank Wentworth, Ag.	*Houlton*	University Cabin
Kierstead, Elsie Leilla, Ed.	*Blue Hill*	Stillwater
Kilas, Joseph Lawrence, Ch.Eng.	*Rumford*	3 Park Street
Kimball, Everett Augustus, Es.	*Brewer*	182 Wilson Street, Brewer
Kinghorn, Robert Colin, Fy.	*Fitchburg, Mass.*	Φ Μ Δ House
Kingsbury, Walton Cameron, Wc.	*Boonville, N. Y.*	95 Mill Street
Knapp, Phyllis Lucy, He.	*Bradley*	Bradley
Knight, Mervin Taber, Ed.	*Newton Centre, Mass.*	Κ Σ House
Knights, Maxine Sherwin, He.	*Brewer*	322 South Main Street, Brewer
Kozicky, Edward Louis, Wc.	*Eatontown, N. J.*	Φ Η Κ House
Landon, Ruth Benson, He.	*Kennebunkport*	60 Park Street
Lapham, Daniel, Zo.	*West Concord, Mass.*	36 Middle Street
Larsson, Robert Dustin, Ms.	*Gloucester, Mass.*	50 Pine Street
Leining, Charles Frederick, Hy. & Gt.	*Mt. Vernon, N. Y.*	Σ Α Ε House
Libby, Clifford White, Fy.	*Portland*	35 Grove Street
Libby, Frederick Andrew, Dr.	*Orono*	51 North Main Street

Linnell, Ruth Howe, Eh.	*Pembroke*	Estabrooke Hall, South
Locsin, Manuel Vicente, Pa.	*Victorias, Occ. Negros, P. I.*	4 Myrtle Street
London, Mansfield Gray, Ag.	*Houlton*	A Γ P House
Look, Eleanor Carolyn, Sh.	*Rockland*	Estabrooke Hall, South
Loudon, Alexander Duncan, Py.	*Brownville*	Brownville
Lundberg, Robert Nelson, Zo.	*Gloucester, Mass.*	Φ H K House
McAlary, Elizabeth Mary, He.	*Rockland*	Estabrooke Hall, North
McAllister, Joan, By.	*Gorham*	Estabrooke Hall, South
McCrum, Don Lemuel, Fm.	*Mars Hill*	Park Street
McDonald, Robert Skillings, Eng.Ps.	*Portland*	Θ X House
McDonough, Jean Ellin, Zo.	*Portland*	Estabrooke Hall, South
MacGillivray, John Oliver, Fy.	*Newton Lower Falls, Mass.*	K Σ House
MacGregor, Walter Newell, Ee.	*Eastport*	Φ M Δ House
McIntire, Edith Blanche, Eh.	*Dixfield*	The Elms
McKay, Gordon Bush, Me.	*Old Town*	64 Bradbury Street, Old Town
Maasen, John Henry, Jr., Wc.	*Scarsdale, N. Y.*	Φ K Σ House
Mack, Betty C., Hy.	*Bangor*	Estabrooke Hall, North
Mann, Alfred Alroy, Ch.Eng.	*Raymond*	Φ K Σ House
Marriner, Norman Earle, Ms.	*Camden*	Φ K Σ House
Marshall, James Robert, Ee.	*Farmington*	Stillwater
Martin, Marguerite Hazel, Ed.	*Brunswick*	15 Pierce Street
Meader, Everett Lawrence, Ed.	*Ellsworth*	59 Park Street
Millay, Harold Sidney, Ee.	*Richmond*	Φ M Δ House
Miller, Marion Flint, He.	*Thomaston*	Estabrooke Hall, South
Mitchell, Nahum Wentworth, Jr., Ch.Eng.	*West Newfield*	Φ Γ Δ House
Mitchell, Sadie Ranco, He.	*Old Town*	Indian Island, Old Town
Mitchell, Shirley Martha, He.	*Fairfield*	Estabrooke Hall, North
Morris, Robert Irving, Zo.	*Bangor*	45 Maple Street, Bangor
Mosher, Mary Elizabeth, He.	*Bangor*	Home Management House
Mosher, Paul Newell, Dh.	*Wilton*	88 Park Street
Moulton, Virginia, Py.	*Bangor*	Estabrooke Hall, North
Murray, George Leslie, Ed.	*Newport*	A T Ω House
Mutty, Edwin Louis, Ba.	*Bangor*	168 Grove Street, Bangor
Muzroll, Lawrence Joseph, Ch.A. & Ms.	*Rumford*	K Σ House
Myers, Clyde Edmund, Mc.	*Orono*	33 Spencer Lane

Newcomb, Frederick Melville, Ag.	*Scarboro*	K Σ House
Newhall, Carl Alvin, Ce.	*Peabody, Mass.*	K Σ House
Nichols, Malcolm George, Fy.	*Stillwater*	Stillwater
Nichols, Margaret Jane, Rl.	*Stillwater*	Stillwater
Nickerson, Archie William, Ed.	*Belfast*	19 First Street, Bangor
Nunan, Richard Tribler, Ba.	*Monhegan Island*	87 Park Street
Nystrom, George Leonard, Pa.	*Plainville, Conn.*	B Θ Π House
Oakes, Stewart Francis, Me.	*Rangeley*	Σ N House
O'Donoghue, John Kew, Me.	*Lowell, Mass.*	380 College Road
Oppenheim, Edward Elliot, Hy. & Gt.	*Bangor*	226 Hammond Street, Bangor
Orff, Barbara Alice, He.	*Rockland*	Estabrooke Hall, South
Osgood, Burt Sterling, Jr., Ba.	*Orono*	60 Park Street
Packard, Ruth Gray, Rl.	*Orono*	15 Mill Street
Parsons, Charles Boone, Fm.	*Presque Isle*	A T Ω House
Parsons, William Frazier, Eng.Ps.	*Skowhegan*	Σ X House
Paul, James Stuart, Ce.	*Fort Fairfield*	18 Oak Street
Paul, Roger Fernald, Fy.	*York Beach*	Λ X A House
Payson, Carlton Burkett, Ag.	*Union*	K Σ House
Peaslee, Elizabeth Frances, He.	*Concord, N. H.*	Estabrooke Hall, North
Peavey, Harry Clothey, Jr., Me.	*Fort Devens, Mass.*	Σ A E House
Peirce, Jean Margaret, He.	*Bangor*	The Elms
Pennell, John Dunning, Jr., Ch.Eng.	*Portland*	34 Pine Street
Perkins, Charlene Mary, Sy.	*Madison*	Estabrooke Hall, North
Perkins, Howard Roscoe, Ce.	*Orono*	80 North Main Street
Perry, Clifford Given, Me.	*Bowdoinham*	40 Pond Street
Pettengill, Zoë deBeausoleil, Ed.	*Augusta*	Estabrooke Hall, North
Philbrook, Constance Fanny, He.	*Shelburne, N. H.*	Estabrooke Hall, North
Philbrook, Margaret Elizabeth, Hy.	*Tenafly, N. J.*	Estabrooke Hall, South
Pierce, Richard Hurd, Hy.	*Leominster, Mass.*	Σ A E House
Pinkham, Ernestine King, Rl.	*Portland*	Estabrooke Hall, South
Piper, Allan Eugene, Bt.	*Troy*	14 Kell Street
Plummer, John Flagg, Ce.	*Bangor*	7 Catell Street, Bangor
Pomeroy, Yvonne Anna, Rl.	*Hampden Highlands*	Estabrooke Hall, South
Powell, Stephen Edwin, Wc.	*Orono*	69 Forest Avenue

Pratt, Virgil Stewart, Wc.	*Stillwater*	Bennoch Road, Stillwater
Preble, Claralyn Owen, Sy.	*Enfield*	10 Oak Street, Old Town
Preble, Clayton Hinckley, Ee.	*Addison*	395 College Road
Pullen, Winston Eugene, Fm.	*Monson*	192 Webster Avenue, Bangor
Ramsay, Joyce, Ed.	*Fort Kent*	Estabrooke Hall, South
Ramsdell, Richard Theodore, Fy.	*Milton, Mass.*	Α Γ Ρ House
Rand, Emily Allen, Ms.	*Bangor*	14 Frances Street, Bangor
Reed, Ruth Helena, He.	*Madawaska*	Estabrooke Hall, South
Reed, Walter Sherwood, Jr., Gt.	*Boothbay Harbor*	85 Main Street
Reid, Elizabeth Stanley, Py.	*Bangor*	Estabrooke Hall, North
Reilly, James Richard, Wc.	*Tottenville, S. I., N. Y.*	Σ Ν House
Rheinlander, Harold Falle, Zo.	*Washburn*	Α Τ Ω House
Riddle, Oscar Walter, Me.	*Rangeley*	Σ Α Ε House
Riddle, William James, Ch.Eng.	*Bridgton*	Σ Α Ε House
Riley, Pauline Frances, Sy.	*Biddeford*	Etsabrooke Hall, North
Risman, George Carl, Zo.	*Roxbury, Mass.*	33 Peters Street
Roach, Harry Quinton, Fm.	*Smyrna Mills*	Σ Ν House
Robertson, Frank O'Neil, Jr., Zo.	*Bethel*	Α Τ Ω House
Robertson, Kenneth Noble, Me.	*Auburn*	112 H. H. Hall
Rogers, Vernon Grantham, Ba.	*Bangor*	700 Hammond Street, Bangor
Romero, Margaret Robinson, Py.	*Bangor*	32 North Street, Bangor
Rowe, Elizabeth Gould, He.	*Milo*	Estabrooke Hall, North
Rowe, Hilda Barton, Py.	*Bangor*	Estabrooke Hall, North
Rubin, Sylvia Anna, Eh.	*Bangor*	312 French Street, Bangor
Runion, Leona May, Sh.	*Orono*	15 Pond Street
Savage, Norris Allen, Ed.	*Bar Harbor*	25 Grove Street
Sawyer, Frances Lenora, He.	*Waterville*	Estabrooke Hall, North
Scanlin, Merlin Thomas, Fm.	*Danforth*	Α Γ Ρ House
Serota, Jacob, Fy.	*Portland*	35 Grove Street
Sewell, Edgar Fuller, Ch.	*Bangor*	117 Grove Street, Bangor
Shackelford, Charles Henry, By.	*Wenham, Mass.*	Σ Ν House
Shackelford, Philip Torrey, Ba.	*South Hamilton, Mass.*	Σ Ν House
Shapiro, Jacob, Wc.	*Salem, N. J.*	Τ Ε Φ House
Shearer, Frank Price, Wc.	*Pennington, N. J.*	Κ Σ House
Shepard, LeRoy Grenville, Me.	*Deer Isle*	Φ Κ Σ House

Shute, Harry David, Ce.	*Augusta*	Stockton Springs
Simpson, Eloise Pratt, Ms.	*Attleboro, Mass.*	Estabrooke Hall, South
Skoufis, Peter John, Hy. & Gt.	*Bangor*	18 Lincoln Street, Bangor
Smart, Madeline Marie, He.	*Houlton*	Estabrooke Hall, North
Smart, Phyllis Lillian, Ed.	*LaGrange*	222 Elm Street, Bangor
Smith, Charles Byron, Jr., Ph.	*Orono*	39 Park Street
Smith, Irving Kitchen, Ag.	*Presque Isle*	43 Main Street
Smith, Julia Alice, He.	*Limerick*	Home Management House
Smith, Liv Lundevall, Hy.	*Orono*	102 North Main Street
Smith, Owen Halbert, Ag.	*Presque Isle*	123 Middle Street, Old Town
Smith, Robert Butman, Ba.	*South Portland*	Bennoch Road, Stillwater
Smith, Thomas Joseph, Jr., Ch.Eng.	*West Haven, Conn.*	395 College Road
Snow, Elayne Marguerite, Ed.	*Caribou*	Estabrooke Hall, North
Sobel, Theodore, Ch.Eng.	*New York, N. Y.*	33 Bennoch Street
Somes, John William, Ba.	*Mt. Desert*	Σ N House
Spencer, Carl Edward, Ch.	*Anson*	35 Grove Street
Sprague, Donald Ralph, Ed.	*Danforth*	Stillwater
Staples, Grant Dockendorff, Ce.	*Whitefield*	Φ K Σ House
Staples, Ormond Adolph, Fy.	*Camden*	Σ N House
Starbird, Clinton Virgil, Me.	*Strong*	Σ A E House
Stearns. Roger Austin, Fm.	*South Paris*	312 H. H. Hall
Stevens, Clifford Alton, Fy.	*Lincoln*	Φ M Δ House
Stevens, John Rufus, Ag.	*Smyrna Mills*	148 Main Street
St. Germain, William Albert, Me.	*Greenville*	Commons
Stillings, Alice Gertrude, Hy. & Gt.	*South Portland*	Estabrooke Hall, North
Stisulis, Walter Lewis, Ce.	*Mexico*	106 Oak Hall
St. Lawrence, Mitchell Bradley, Fm.	*Orono*	27 Myrtle Street
Storer, Allan Philbrick, By.	*Orono*	32 College Road
Strang, Walter Pershing, Wc.	*Madison*	Σ A E House
Stritter, Karl Witmer, Ht.	*Nahant, Mass.*	B Θ Π House
Stubbs, Charlton Percival, Me.	*Bucksport*	Bucksport
Sullivan, Richard Paul, Me.	*Portland*	A T Ω House
Sweet, Sherley Marcus, Hy. & Gt.	*Bar Harbor*	A X A House

Tackaberry, Robert Bernard, Eng.Ps.	*Old Town*	28 Davis Street, Old Town
Talbot, James Edward, Fy.	*Woodland*	Α Τ Ω House
Talbot, Margaret Cromwell, Rl.	*Bangor*	18 Carroll Street, Bangor
Tarbell, Allan Brown, Ba.	*Smyrna Mills*	Β Θ Π House
Tardoni, Daniel James, Ch.Eng.	*Sayre, Pa.*	Stillwater
Thompson, Esther LaDora, Fr.	*Biddeford*	Estabrooke Hall, South
Thompson, Harold Everett, Jr., Dt.	*Leominster, Mass.*	Φ Μ Δ House
Thorn, Raymond Edgar, Ee.	*Reading, Mass.*	Σ Ν House
Towle, Myron John, Fm.	*Fort Fairfield*	Φ Η Κ House
Townsend, Paul Alexander, Ms.	*Blue Hill*	Θ Χ House
Tracy, Frederick Foster, Me.	*Northeast Harbor*	Σ Α Ε House
Tracy, Samuel Edwin, Jr., Sh.	*Northeast Harbor*	Σ Α Ε House
Trask, Allen Dudley, Ch.Eng.	*Melrose, Mass.*	54 Hill Street
Trask, Harry Earle, Jr., Ed.	*East Wilton*	124 Middle Street, Old Town
Troop, Benjamin Sabin, Fy.	*Hartford, Conn.*	Φ Η Κ House
Trott, Margaret Elizabeth, Hy.	*Bath*	Estabrooke Hall, South
Trowbridge, John Perrin, Ce.	*Pomfret Center, Conn.*	Λ Χ Α House
Tufts, Christine Evelyn, Sy.	*Kingfield*	Estabrooke Hall, South
Tuttle, Ruth Louise, Ed.	*Portland*	Estabrooke Hall, North
Tweedie, James Kerr, Ba.	*Lamoine*	Σ Α Ε House
Utterback, John Dudley, Ge.	*Bangor*	Φ Γ Δ House
Valliere, Raymond Andrew, Hy.	*South Berwick*	85 Main Street
Verrill, Anna Elizabeth, He.	*Westbrook*	Estabrooke Hall, North
Walker, Alexander, Jr., Fy.	*Rochester, N. Y.*	Κ Σ House
Walker, Neal Harvey, Ag.	*Wiscasset*	Α Γ Ρ House
Walsh, Agnes Ann, Rl.	*South Portland*	Estabrooke Hall, South
Ward, Catherine Margaret, Rl.	*Portland*	Estabrooke Hall, North
Warren, David Wyman, Jr., Rl.	*Pripet*	Φ Γ Δ House
Webster, June Anna, He.	*Bangor*	Estabrooke Hall, South
Webster, Shirley Gwynne, Me.	*Lincoln*	25 Grove Street
West, Dora Brown, Py.	*Lexington, Mass.*	Estabrooke Hall, North
Weston, Donald Williams, Me.	*Madison*	College Road
Wetherbee, William Howard, Dr.	*Orono*	74 North Main Street

Weymouth, Flora Gwendolyn, Py.	*Howland*	Estabrooke Hall, South
Wheeler, Francis Adams, Me.	*Auburn*	Α Τ Ω House
White, Charlotte Zeluma, Eh.	*Bowdoinham*	The Elms
White, Ruth Elizabeth, Eh.	*Bangor*	Estabrooke Hall, North
Whitehouse, Marjorie Marion, Rl.	*Augusta*	Estabrooke Hall, South
Whitman, Forrest Giles, Fy.	*East Auburn*	Σ Ν House
Whitney, Byron VanBleck, Zo.	*Winn*	25 Grove Street
Whitten, Maurice Harvard, Ag.	*Fort Kent*	Φ Η Κ House
Wilbur, Gorham Homer, Me	*Dexter*	College Road
Willard, Dorothy Arline, Ed.	*Winterport*	Estabrooke Hall, North
Willets, Robert Taber, Fy.	*Roslyn, N. Y.*	Κ Σ House
Willey, Roslyn Bradford, Ag.	*Orono*	123 Center Street, Old Town
Williams, Frank Raymond, Es.	*Mechanic Falls*	Φ Γ Δ House
Williams, James Oliver, Ch.Eng.	*Ogunquit*	3 Park Street
Wilson, Adam Winslow, Fm.	*Portland*	Φ Κ Σ House
Wing, Dorothy Hopkins, He.	*Bath*	Estabrooke Hall, South
Wood, Amy Sheppard, Mc.	*Old Town*	19 North Brunswick Street, Old Town
Woodbrey, Cecil Sherman, Eng.Ps.	*Sebago Lake*	Φ Η Κ House
Woolley, Thomas Russell, Jr., Sh.	*Bridgton*	7 Park Street
Wormwood, Helen Bradbury, Hy. & Gt.	*Portland*	Colvin Hall
Wright, Samuel Judd, An.	*Clinton*	88 Park Street
Yorke, Richard Arthur, Ed.	*Kingfield*	25 Grove Street
Young, Barbara Alice, Ms.	*Calais*	Estabrooke Hall, South
Zieno, Angelo Salvatore, Fy.	*Norwich, N. Y.*	14 Park Street
Zitaner, Morris, Zo.	*South Brewer*	R.F.D. #8, South Brewer

JUNIORS

Abbott, Susan Dukeshire, He.	*Union*	The Elms
Adams, Earl Castner, Fr.	*Portland*	University Cabin
Adasko, Miriam Revilla, Hy.	*Gloucester, Mass.*	Balentine Hall
Albert, Joseph James, Es.	*Bangor*	96 Garland Street, Bangor
Alexander, Helen Audrey, L.A. & N.	*Saco*	Estabooke Hall, North
Alpert, Ada Fiana, He.	*Bangor*	137 State Street, Bangor

Anderson, John Rudolph Me.	*Livermore Falls*	Φ Γ Δ House
Andrews, Frances Christine, He.	*Portland*	Estabrooke Hall, North
Andrews, Francis Swain, Gt.	*Norway*	Σ X House
Ansell, Elizabeth Clark, L.A. & N.	*Dexter*	Estabrooke Hall, North
Arbo, Edward Payson, Ba.	*Brownville*	Θ X House
Armitage, Walter Howard, Me.	*Methuen, Mass.*	395 College Road
Ashman, Shirley Gladys, Rl.	*Augusta*	Estabrooke Hall, North
Atwood, Florence Caro, He.	*Brunswick*	Balentine Hall
Axtell, Arthur Gardner, Wc.	*Saugerties, N. Y.*	Φ H K House
Bachman, Gerald William, Ch.Eng.	*Augusta*	Λ X A House
Bacon, Henry Ferdinand, Ce.	*Oakland*	25 Grove Street
Banton, Madeliene Lois, He.	*Newport*	Estabrooke Hall, South
Bardo, Clinton Lloyd, Fy.	*Providence, R. I.*	Λ X A House
Barker, Elizabeth Jane, Eh.	*Bangor*	99 Sanford Street, Bangor
Barrows, Edward Pomeroy, Ba.	*Augusta*	B Θ H House
Barrows, John Clifford, Ch.Eng.	*Glen Ridge, N. J.*	B Θ H House
Bartlett, Alice Janet, L.A. & N.	*Orono*	74 North Main Street
Bartlett, Paul Vernon, Bc.	*Orono*	38 Pine Street
Bean, Bryant Chapman, Dr.	*Bryant Pond*	Λ X A House
Beaton, Clifford Merrill, Ch.Eng.	*Brownville Junction*	Θ X House
Beaton, Donald Edgar, Hy. & Gt.	*Bangor*	218 Pine Street, Bangor
Beaton, Robert John, Wc.	*Stoughton, Mass.*	23 Park Street
Beckmann, William Richard, Wc.	*Brooklyn, N. Y.*	Σ A E House
Beegel, Paul Milton, Zo.	*Bangor*	178 State Street, Bangor
Belknap, Martha Chapman, Ba.	*Damariscotta*	87 Main Street
Benjamin, Charles Smith, Jr., Ba.	*Etna, N. Y.*	Σ X House
Berg, Shirley Belle, Sy.	*Bangor*	56 Fern Street, Bangor
Berry, Jeannette Elizabeth, Py.	*Houlton*	Estabrooke Hall, South
Bickford, Frances Elizabeth, He.	*Madison*	Estabrooke Hall, South
Bigelson, Arthur, Ee.	*Bangor*	142 York Street, Bangor
Billings, Percy Glenwood, Jr., Agr.Eng.	*Bangor*	20 Sixth Street, Bangor
Bither, Gordon Haley, Ed.	*Houlton*	88 Park Street
Blake, Clifford Arnold, Fm.	*Cornish*	Φ M Δ House
Blake, Cora Josephine, He.	*LaGrange*	Balentine Hall
Blanchard, Bertrand Everett, Fm.	*Dover-Foxcroft*	Φ H K House
Blanchard, Gordon Chapman, Me.	*Swampscott, Mass.*	Λ X A House
Blanchard, Kenneth Stephen, Ce.	*Blanchard*	Φ H K House
Blanchard, Russell Philip, Fm.	*Mars Hill*	Park Street
Blood, Harold Virgil, Ed.	*Dover-Foxcroft*	Σ A E House

Bommattei, Ralph Louis, Ed.	*Norway*	109 Pine Street, Bangor
Bonney, Alton Grover, Jr., Eng.Ps.	*Portland*	University Cabin
Bower, John Allen, Me.	*Auburn*	6 Mill Street
Bowers, Durant, Ee.	*Bangor*	19 Third Street, Bangor
Bowser, Robert Vance, Ee.	*Reading, Mass.*	Φ K Σ House
Boyd, Arthur, Fm.	*Milford*	Φ M Δ House
Bradeen, Doris Mae, He.	*Millinocket*	Estabrooke Hall, North
Brewer, Dorothy Frances, He.	*Bar Harbor*	Estabrooke Hall, North
Brewster, Frank Eugene, Ch.Eng.	*South Portland*	Φ H K House
Brink, Robert Morris, Ee.	*Cape Elizabeth*	505 College Road
Brown, Donald Vaughn, Ch.Eng.	*Fairfield*	Σ N House
Brown, Harvey Weston, Hy. & Gt.	*Mt. Desert*	29 Forest Avenue
Brown, Marjory Elizabeth, Ed.	*Purchase, N. Y.*	3 Riverdale
Brown, Walter Eastman, Ce.	*Bucksport*	Φ Γ Δ House
Browne, Robert Irving, Fm.	*Bethel*	Commons
Bubar, Treston Owen, Ag.	*Littleton*	25 Grove Street
Burger, Francis William, Ch.Eng.	*Lynn, Mass.*	B Θ Π House
Burke, John Edward, Me.	*Bangor*	State Street, Bangor
Burleigh, Sarah Elizabeth, L.A. & N.	*Augusta*	Estabrooke Hall, North
Burnett, John McGregor, Ce.	*Skowhegan*	395 College Road
Burnham, Reuben Sylvester, Me.	*West Scarboro*	K Σ House
Butler, Wendell Taylor, Ch.Eng.	*Springvale*	23 Spencer Lane
Butterfield, Wilfred Irving, Jr., Zo.	*Bangor*	147 Maple Street, Bangor
Carter, Genevieve Elizabeth, He.	*Ellsworth*	Estabrooke Hall, South
Carter, John Merrill, Fm.	*Etna*	Φ M Δ House
Carter, Leland Franklin, Ce.	*Freeport*	Σ N House
Chadbourne, Ernest Donald, Fm.	*East Baldwin*	25 Grove Street
Chandler, John Everett, Ba.	*Winthrop*	12½ Pleasant Street
Chase, George Oscar, Rl. & Cl.	*Millinocket*	Φ K Σ House
Chick, Richard Loring, Fy.	*South Berwick*	Φ H K House
Christensen, William Mathias, Jr., Me.	*Auburn*	28 Main Street
Church, James Elwood, Zo.	*Gardiner*	395 College Road
Chute, Robert Eugene, Me.	*Norway*	University Cabin
Clark, Alton Willis, Ms.	*Kennebunk*	Φ H K House
Clark, Carl Orison, Ag.	*Freedom*	25 Grove Street
Clark, William Bradbury, Ee.	*Lewiston*	Σ A E House
Cleverly, Muriel Beatrice, Hy.	*Hull, Mass.*	The Elms
Cobb, Clara Maude Scribner, Ed.	*Lee*	Forest Avenue
Coffin, Robert William, Me.	*Harrington*	395 College Road

Cohen, Jozef Bertram, Py.	*Roxbury, Mass.*	43 Main Street
Colpitts, Bernard Eugene, Me.	*Saco*	Α Τ Ω House
Conti, Rudolph Francis, Ba.	*Arlington, Mass.*	Κ Σ House
Cousins, Florence Evelyn, Sy. & Eh.	*Old Town*	94 North Fourth Street, Old Town
Cousins, Howard Levi, Jr., Ed.	*Fort Kent*	Φ Η Κ House
Cowin, Mary Alexia, He.	*Orono*	8 Elm Street
Cranch, Richard Christopher, Fy.	*New Rochelle, N. Y.*	Φ Κ Σ House
Crapo, Arthur Chester, Ee.	*Orono*	74 North Main Street
Crocker, Guy Joseph, Ch.Eng.	*Stillwater*	Bennoch Road, Stillwater
Crossland, Lloyd Byron, Ge.	*Mexico*	University Cabin
Crowley, Nathaniel Joseph, Ba.	*Dover-Foxcroft*	H. H. Hall
Cunningham, George Barker, Dr.	*Old Town*	36 Veazie Street, Old Town
Curley, John Irvine, Jr., Ba.	*Rumford*	Κ Σ House
Curtis, Boyd Alvin, Ag.	*Easton*	Α Γ Ρ House
Cushman, George Bernard, Dt.	*Bryant Pond*	88 Park Street
Cyr, Joseph Wilfrid, Ag.	*Lille*	17 Margin Street
Dale, Ralph Orlando, Eng.Ps.	*Bath*	Φ Γ Δ House
Dalrymple, Robert Anthony, Es. & Ba.	*Newton Highlands, Mass.*	Φ Γ Δ House
Dangler, Edgar William, Wc.	*Brooklyn, N. Y.*	Α Τ Ω House
Davis, Carl Forrest, Ms.	*Milo*	Θ Χ House
Davis, Carrol Dwight, Ee.	*Solon*	302 Oak Hall
Davis, Charles Ralph, Me.	*Old Town*	11 North Fourth Street, Old Town
Davis, Donald Hasbrouck, Ch.Eng.	*Duxbury, Mass.*	Φ Κ Σ House
Davis, Erna Eliza, He.	*Bucksport*	Estabrooke Hall, North
Davis, Robert Thomas, Jn.	*Old Town*	202 North Brunswick Street, Old Town
Day, McClure, An.	*Damariscotta*	395 College Road
Day, Richard Beston, An.	*Damariscotta*	395 College Road
Day, Robert Hartson, Dh.	*Bryant Pond*	42 Pond Street
deBarros, Richard John, Bt. & En.	*New York, N. Y.*	3 Park Street
Deering, Robert Bowman, Ht.	*Orono*	160 College Road
Delano, Ernest Thomas, Ed.	*Bucksport*	11 High Street, Bangor
Denesuk, Nicholas, Fy.	*Peabody, Mass.*	Σ Ν House
Dennis, Eleanor Blanche, Hy.	*Passadumkeag*	The Elms

deRoth, Gerardus Cabble, En.	*Montour Falls, N. Y.*	University Cabin
DeShon, Howard Clifford, Ee.	*Machias*	69 Forest Avenue
Dickens, Thomas Daniel, Wc.	*Camden*	395 College Road
Dillon, John Michael, Ba.	*Naugatuck, Conn.*	Σ X House
Dimitre, Margaret Lorraine, Ba.	*Calais*	Estabrooke Hall, North
Dimmer, John Patrick, Jr., Ce.	*Portland*	K Σ House
Dixon, Elinor Louise, Eh.	*Portland*	Balentine Hall
Dobrow, Jordan, Ba.	*Brookline, Mass.*	T E Φ House
Dodge, David Thaxter, An.	*Bangor*	R.F.D. #4, Bangor
Dole, Arthur Sidney, Jr., Zo.	*Bangor*	R. F. D. #2, Bangor
Dole, Richard Dresser, Me.	*Sebago Lake*	25 Grove Street
Dorr, Donald Eugene, Wc.	*Ridlonville*	Φ K Σ House
Dow, Clarence Pearl, Fy.	*Charleston*	208 Elm Street, Bangor
Dow, Leslie Alexander, Ch.Eng.	*Stillwater*	Stillwater
Dow, Levi Sewell, Wc.	*Fort Kent*	Φ H K House
Downes, Laurence Maxwell, Me.	*Bangor*	Φ M Δ House
Doyle, Margaret Eleineen, Eh.	*Caribou*	Balentine Hall
Duncan, Carl Porter, Sh.	*Presque Isle*	Φ H K House
Dyer, Robert Hall, Wc.	*Turner*	College Road
Dyer, Samuel, Jr., Me.	*Framingham, Mass.*	Λ X A House
Eastman, Ruth Elizabeth, L.A. & N.	*Augusta*	Estabrooke Hall, North
Eaton, Byron Alston, Ed.	*Stonington*	Kell Street
Ehrenfried, Paul, Es. & Jn.	*Lewiston*	Φ K Σ House
Eldridge, John William, Ch.Eng.	*Orono*	Φ Γ Δ House
Elwell, Robert Arthur, Ph.	*Gorham*	Σ A E House
Emery, Lawrence Woodford, Ba.	*East Machias*	Σ X House
Emmons, Barbara Wentworth, Py.	*Worcester, Mass.*	Estabrooke Hall, South
Evans, William Henry, Me.	*Manhasset, L. I., N. Y.*	K Σ House
Farnham, Barbara May, Sy.	*Bangor*	Estabrooke Hall, South
Fassett, Carol Lincoln, Eh.	*Oakland*	Estabrooke Hall, South
Feinberg, Robert Malcolm, Ba.	*Chelsea, Mass.*	T E Φ House
Field, Kenneth Adelbert, Me.	*Hampden*	Hampden
Fielding, Richard Norman, Ba.	*Malden, Mass.*	K Σ House
Findlen, Herbert, Ag.	*Fort Fairfield*	A Γ P House
Fink, John Edward, Wc.	*Brooklyn, N. Y.*	Σ A E House
FitzPatrick, John Dowd, Ba.	*Marblehead, Mass.*	Σ A E House

Fortier, Robert Francis, Dr.	*Orono*	52 Park Street
Foster, Orsan Junior, Me.	*Baring*	41 Mill Street
Francis, Wallace Robert, Me.	*Darien, Conn.*	Σ A E House
Franz, Richard Oscar, En.	*Thornwood, N. Y.*	Φ K Σ House
Freedman, Stanley Philip, Ch.	*Portland*	12 Park Street
French, John Scates, Eh.	*Pleasantville, N. Y.*	395 College Road
French, Marjorie Violet, He.	*Winthrop*	Balentine Hall
French, Maynard Gardner, Dr.	*Livermore Falls*	Λ X A House
French, Robert Joseph, Ba.	*Guilford*	Σ X House
Gabe, Henry, Me.	*Worcester, Mass.*	60 Forest Avenue
Gallant, Francis Louis, Me.	*Bangor*	34 East Summer Street, Bangor
Gannon, Henry Francis, Fy.	*New Rochelle, N. Y.*	395 College Road
Garfinkle, Harold, Zo.	*Mattapan, Mass.*	T E Φ House
Garsoe, William Joseph, Ph.	*Portland*	K Σ House
Gay, Raymond Francis, Jr., Me.	*Stony Creek, Conn.*	A X A House
Geary, Edward Joseph, Fr.	*Lewiston*	395 College Road
Gifford, William Edward, Ms.	*Bangor*	240 State Street, Bangor
Gilbert, Eugene Clarence, Ce.	*Winterport*	Σ A E House
Gilman, Dorothy Janet, He.	*Porter*	Estabrooke Hall, North
Gilman, Manuel Alan, Ph.	*Forest Hills, N. Y.*	35 Grove Street
Ginsburg, Saul, Ge.	*Portland*	12 Park Street
Gleason, Eleanor Lou, He.	*Union*	Estabrooke Hall, North
Gleason, Elene May, He.	*Brewer*	82 North Main Street, Brewer
Glider, Victor, Fy.	*Hartford, Conn.*	7 Forest Avenue
Glover, John White, Jr., Ee.	*Orono*	265 Main Street
Goldberg, Edward Leo, Zo.	*Lynn, Mass.*	15 Middle Street
Goldsmith, Alvin Robbins, Mc.	*Bangor*	Σ A E House
Goodwin, Jean Elizabeth, He.	*Caribou*	Balentine Hall
Gorman, John Carroll, Es.	*Wellesley, Mass.*	Σ X House
Goulette, Gerard Alphonse, Rl.	*Dexter*	395 College Road
Gowen, Barbara Muirhead, L.A. & N.	*Saco*	Estabrooke Hall, South
Greeley, Virginia Mary, Eh.	*Arlington, Mass.*	Balentine Hall
Greenleaf, Laurie Jones, Me.	*Auburn*	Φ Γ Δ House
Griffee, Donald Gordon, Me.	*Orono*	19 University Place
Haffner, Rudolph Eric, Zo.	*Portland*	University Cabin

Hall, Elden David, Jr., Ce.	*Farmington*	B Θ Π House
Hamilton, Violet Mary-Anne, Rl.	*Pittsfield*	Estabrooke Hall, South
Haney, Ralph William, Ee.	*Bangor*	176 Ohio Street, Bangor
Hanson, Frank Burton, Ed.	*Rumford*	25 Grove Street
Hardy, Malcolm Edward, Fy.	*Waban, Mass.*	18 Oak Street
Harrington, Edgar Bernard, Fm.	*Patten*	Φ Η K House
Haskell, Gwendolyn Estelle, Eh.	*Lincoln*	The Elms
Hastings, Virginia Kittridge, He.	*Bangor*	61 Congress Street, Bangor
Hathaway, Florence Adelle, Fr.	*Bangor*	R.F.D. 7, Hammond Street, Bangor
Hatt, Roy James, Hy. & Gt.	*Brewer*	R.F.D. 5, Brewer
Hayes, Helen Virginia, He.	*Bangor*	15 Stone Street, Bangor
Healy, Robert Morris, Sy.	*Augusta*	B Θ Π House
Hedstrom, John Ephraim, Es.	*Lowell, Mass.*	288 Union Street, Bangor
Henderson, Edward Anson, Ce.	*Houlton*	University Cabin
Henderson, Sherwood William, Me.	*Anson*	25 Grove Street
Hepburn, William George, Me.	*South Portland*	Λ X A House
Herrick, Carleton Sewall, Jr., Zo.	*South Brewer*	61 Elm Street, South Brewer
Hersey, Richard Winslow, Es.	*Portland*	Σ N House
Higgins, Irwin Raymond, Bc.	*Mapleton*	25 Grove Street
Higgins, Joseph Scott, Ph.	*Dennysville*	Φ K Σ House
Hill, Rebecca, Py.	*Machias*	Estabrooke Hall, North
Hines, Marion Ruth, Zo.	*Middletown, Conn.*	Balentine Hall
Hodgkins, Earl Littlefield, Ce.	*Northeast Harbor*	Σ A E House
Hodgkins, Winfield Chester, Jr., Ch.Eng.	*Bar Harbor*	Θ X House
Hogan, Barbara Bates, Hy. & Gt.	*Bath*	Estabrooke Hall, North
Holmes, Edna Frances, He.	*Limerick*	The Elms
Holmes, Robert Goodwin, Ee.	*Guilford*	Σ X House
Hood, Natalie Ruth, Eh.	*New Gloucester*	Estabrooke Hall, North
Hopkins, Harry Saunders, Ag.	*North Brooksville*	12 Park Street
Hopkinson, David Bradford, Me.	*Portland*	Φ M Δ House
Horn, Gilman David, Ch.Eng.	*Portland*	Φ Η K House
Horton, James Bartlett, Ch.Eng.	*Brewer*	317 South Main Street, Brewer
Houghton, John William, Fm.	*Fort Fairfield*	402 H. H. Hall
Houston, John, Eh.	*Guilford*	Σ X House
Howe, Allan Morton, Ce.	*Cooper*	Φ M Δ House

Huey, Homer Sanford, Eh.	*Bangor*	113 Pine Street, Bangor
Hurwitz, Aaron Sumner, Zo.	*Roxbury, Mass.*	37 Hill Street
Ingalls, James Warren, Jr., Wc.	*Northfield, Vt.*	148 College Road
Ingraham, Mark Whitmore, Ce.	*Rockport*	College Road
Irvine, William Lloyd, Ba.	*Framingham, Mass.*	302 H. H. Hall
Johnson, Barbara Elaine, Sy.	*Lincolnville*	Estabrooke Hall. South
Johnson, Donald Keith, Me.	*Gardiner*	University Cabin
Johnson, Herbert Harrison, Fy.	*Onawa*	H. H. Hall
Johnson, Russell Goodwin, Me.	*Sanford*	A T Ω House
Jones, Clarence Wayland, Ee.	*Rumford*	Σ A E House
Kaplan, Harold Irving, Me.	*Nahant, Mass.*	30 Crosby Street
Karczmarczyk, Joseph, Zo.	*Ludlow, Mass.*	Σ A E House
Karst, Doris Edna, Ed.	*Ellsworth*	5 Forest Avenue
Keene, Walter Stanley, Ed.	*Farmington*	395 College Road
Kelley, Robert Edward, Ee.	*Lisbon Falls*	Φ M Δ House
Kelso, Frederick John, Ch.Eng.	*Portland*	395 College Road
Keniston, Charles Thomas, Eng.Ps.	*Bridgton*	University Cabin
Kenney, James Francis, Zo.	*Howland*	36 Grove Street
Kierstead, Edward Stevens, Eh. & At.	*Bucksport*	Σ X House
Kilpatrick, Donald Murray, Fm.	*Caribou*	North Hall
Kimball, Charles Napier Boyer, Fm.	*Bridgewater*	20 Hamlin Street
Kimball, Gerald Winston, Fm.	*Bangor*	591 Main Street, Bangor
King, Hazel Thelma, He.	*Saco*	The Elms
King, Jane, He.	*Ogunquit*	Estabrooke Hall, North
King, Phyllis Muriel, Ms.	*Harpswell Center*	Estabrooke Hall, North
Kingsley, Cortna Mae, Eh.	*Strong*	Estabrooke Hall, South
Koehler, Audrey Mae, He.	*Orono*	430 College Road
Koialovitch, Frederick Charles, Me.	*Waterville*	308 H. H. Hall
Kopelow, Lillian Marion, Ms.	*Bangor*	196 Harlow Street, Bangor
LaFlamme, Vincent John, Ed.	*Great Works*	Great Works
Lancaster, Hartwell Charles, Ba.	*Old Town*	10 High Street, Old Town
Lawry, Otis Charles, Me.	*Fairfield*	B Θ Π House
Leavitt, Booth Gilman, Ch.Eng.	*Madison*	University Cabin
Leavitt, Laurence Gilmore, Ch.Eng.	*Orono*	7 Park Street
Leger, Eugene, Me.	*Newton, Mass.*	K Σ House

Levene, Victor Eugene, Ht.	*Chelsea, Mass.*	15 Middle Street
Lewis, Beulah Theresa, He.	*Newport*	Estabrooke Hall, South
Libby, Lelia Mountfort, Ed.	*Portland*	Stillwater
Libby, Marion Jordan, He.	*Milford*	Milford
Libby, Philip Judson, Ce.	*Freedom*	430 College Road
Limberis, George Peter, Es. & Hy.	*Bangor*	21 First Street, Bangor
Linnell, Sally Wilder, Eh.	*Pembroke*	Balentine Hall
Littlefield, Waldemar Vickery, Me.	*Brewer*	Φ K Σ House
Lobley, Frank Merrill, Ba.	*Bangor*	498 Main Street, Bangor
Lombard, Virginia Rae, Ch.A.	*Meddybemps*	Balentine Hall
Long, Lois, He.	*Melrose, Mass.*	Estabrooke Hall, South
Loring, Charles Brooks, Ch.Eng.	*Yarmouth*	35 Grove Street
Loring, Ruth Eileen, He.	*Orono*	Estabrooke Hall, North
Lovley, Vaughn Tru, Ag.	*Presque Isle*	25 Grove Street
Lown, Bernard, Zo.	*Lewiston*	380 College Road
Lundgren, Marion Christine, Ms.	*New Sweden*	The Elms
Luther, Radford Weston, Me.	*Hartford, Conn.*	69 Forest Avenue
McConnell, Mary Elizabeth, He.	*Portage*	The Elms
MacGregor, Robert Malcolm, Ba.	*Plattsburg, N. Y.*	Φ M Δ House
McKay, Donald Hill, Me.	*Old Town*	64 Bradbury Street, Old Town
McKenney, David Harrison, Ps.	*Jay*	Θ X House
McLeary, Robert Butler, Jr., Ed.	*Farmington*	Σ A E House
MacLeod, Leo Mansell, Py. & Sy.	*Bangor*	21 Middle Street, Bangor
Macomber, Heywood Brown, Jr., Me.	*Needham, Mass.*	Λ X A House
Mank, Miles Boggs, Gt. & Ba.	*Augusta*	B Θ Π House
Marriner, Donald Eugene, Ch.Eng.	*Rockland*	202 H. H. Hall
Martin, Lyle Lynwood, Ce.	*St. Albans*	University Cabin
Mayo, John Hildreth, Fm.	*Cumberland Center*	Σ X House
Medina, John Warren, Me.	*Waltham, Mass.*	Φ K Σ House
Mehann, Helen Winifred, He.	*Bangor*	29 Harthorn Avenue, Bangor
Merrill, Howard Weld, Me.	*Old Town*	18 High Street, Old Town
Mertens, Eugene George, Ba.	*Yonkers, N. Y.*	Σ A E House
Meserve, Philmore Windsor, Fy.	*Mechanic Falls*	Φ H K House
Messer, Marguerite Sylvia, Ed.	*Waban, Mass.*	Balentine Hall
Millar, Edward Reid, Me.	*Leonia, N. J.*	Φ H K House

Miniutti, Gloria Mary, Sy.	*North Berwick*	Estabrooke Hall, North
Miniutti, Victor Pasquale, Fy.	*North Berwick*	77 Mill Street
Mitchell, Frederick Arthur, Ee.	*Kingfield*	University Cabin
Mitchell, Frederick Burton, Ed.	*Bangor*	89 Center Street, Bangor
Moody, Hope, He.	*Lincoln*	The Elms
Moore, Thomas Fogg, Ba.	*Biddeford*	Φ K Σ House
Morris, Sumner David, Pa.	*Guilford*	45 Maple Street, Bangor
Morrison, James Linton, Ch.	*Worcester, Mass.*	Λ X A House
Moulton, Margaret, Fr.	*Bangor*	Estabrooke Hall, North
Moulton, Parker Nash, Jr., Gt.	*Wareham, Mass.*	Σ Λ E House
Mullen, Joseph Norman, Jr., Hy.	*Houlton*	Φ Γ Δ House
Murdock, Henry Thayer, Ee.	*Kennebunk*	Φ H K House
Murphy, George Vincent, Ee.	*Bar Harbor*	212 H. H. Hall
Nichols, Clarence Sidney, Ce.	*Augusta*	38 Middle Street
Nicholson, Evelyn Marian, Eh.	*South Portland*	Balentine Hall
Niles, Lloyd George, Es.	*Houlton*	88 Park Street
Nye, Dana Hammond, Ba.	*Waterbury, Conn.*	28 Main Street
Olsen, Einar Arthur, Fy.	*Gloucester, Mass.*	K Σ House
Page, Jane Augusta, Py.	*Newcastle*	Estabrooke Hall, North
Patterson, Crosby Gardner, Eh.	*Bangor*	72 Center Street, Bangor
Peabody, Ruth Frances, Zo.	*Houlton*	Estabrooke Hall, North
Perry, Alvah Lionel, Fm.	*Sherman Mills*	26 Island Avenue
Perry, Barbara Louise, Eh.	*Houlton*	Estabrooke Hall, South
Perry, Frederick Mauran, Ge.	*Rockland*	24 Pierce Street
Perry, William Louis, Eh.	*Portland*	25 Grove Street
Peterson, Frank Harvey, Me.	*Vinalhaven*	K Σ House
Phelan, Paul Henry, Jn.	*Calais*	36 Grove Street
Philbrook, Nancy Clara, He.	*Shelburne, N. H.*	Estabrooke Hall, North
Phillips, Margaret Goldie, He.	*Ellsworth*	Estabrooke Hall, South
Phillips, Maria Camilla, Ed.	*Portland*	Estabrooke Hall, South
Phillips, Stanley Gilkey, Jr., Ce.	*Melrose, Mass.*	A T Ω House
Pierce, Martha Elizabeth, Eh.	*Guilford*	The Elms
Pierce, Philip Nason, Hy. & Jn.	*Gardiner*	A T Ω House
Pinansky, Linwood Harold, Es.	*Portland*	T E Φ House
Pinette, Marie Cecile, Es.	*Guilford*	20 Forest Avenue
Piper, George Francis, Me.	*Biddeford*	A T Ω House

Pitman, Arnold William, Ht.	*Appleton*	25 Grove Street
Pitts, Edgar Thurlow, Ms.	*Stonington*	12 Park Street
Pollock, Thomas Edwin, Ba.	*Somerville, Mass.*	H. H. Hall
Potter, Frank Elwood, Dt.	*Sabattus*	Α Γ Ρ House
Pratt, Darrell Bradford, By.	*Millinocket*	Σ Ν House
Pratt, Winthrop Bowman, Eng.Ps.	*Arlington, Mass.*	85 Main Street
Pulsifer, Allen Hallet, Es.	*Poland*	Λ Χ Α House
Putnam, Aaron Hacker, Me.	*Houlton*	Κ Σ House
Ramsdell, Gordon Estey, Dh.	*Ellsworth*	25 Grove Street
Ramsey, Raymond Edward, Me.	*Bath*	Φ Μ Δ House
Randall, Dorothy Edith, L.A. & N.	*Oakland*	Estabrooke Hall, North
Randall, Warren Batchelder, Jn.	*Lewiston*	Φ Κ Σ House
Rankin, Austin Edwin, Eng.Ps.	*Camden*	College Road
Ratzell, Francis Edgar, Pl.	*Deer Isle*	Bangor Theological Seminary
Reed, James Alden, Me.	*Boothbay*	Φ Μ Δ House
Reed, John Hathaway, Fm.	*Fort Fairfield*	36 Middle Street
Richards, Lee Warren, Zo.	*Augusta*	36 Grove Street
Riese, George Augustus, Me.	*Arlington, Mass.*	Κ Σ House
Ripanti, Nello Frank, Ch.Eng.	*Hopedale, Mass.*	Stillwater
Roben, George Douglas, Ch.Eng.	*Houlton*	Κ Σ House
Roberts, James Herbert, Ba.	*Belfast*	28 Main Street
Robertson, Edward Norris, Ce.	*Bethel*	Α Τ Ω House
Robertson, Frank Cole, Fy.	*Leominster, Mass.*	43 Main Street
Robie, John William, Dr.	*Augusta*	Β Θ Π House
Robinson, Preston Earl, Ce.	*Bangor*	99 Webster Avenue, Bangor
Rodman, Arlene Ruth, Fr.	*Bangor*	Estabrooke Hall, South
Rollins, Ann, Fr.	*Ellsworth*	Estabrooke Hall, South
Rome, Bernard Philip, Hy. & Gt.	*Brookline, Mass.*	Τ Ε Φ House
Ross, Donald Philip, Ce.	*Orono*	56 Park Street
Ross, Rita Evelyn, Sy.	*Portland*	Estabrooke Hall, North
Rourke, Alice Virginia, Eh.	*Winthrop*	The Elms
Rowe, Harlan Orrington, Ph.	*East Stoneham*	Α Γ Ρ House
Rowell, Lorraine Alberta, L.A. & N.	*Saco*	Estabrooke Hall, South
Roy, Robert Francis, Ch.Eng.	*Norway*	Σ Χ House
Ruddock, Edward Francis, Me.	*Kittery*	Men's Infirmary
Rushworth, Cornell Cameron, Ch.Eng.	*Madison*	University Cabin
Russell, James Louis, Zo.	*Bangor*	193 Warren Street, Bangor
Ryan, Betty Jane, L.A. & N.	*Woolwich*	Estabrooke Hall, North
Ryan, Patricia Margaret, Py.	*Bangor*	82 Cedar Street, Bangor

Sanborn, Bert Sumner, Fy.	*North Uxbridge, Mass.*	Σ N House
Savage, Barbara, Dr. & Eh.	*Bangor*	Balentine Hall
Scammon, Elizabeth Rogers, He.	*Owls Head*	Estabrooke Hall, North
Schaible, William John, Ch.Eng.	*East Northport, L. I., N. Y.*	Θ X House
Scher, Martin Mortimer, Pa.	*New York, N. Y.*	54 Hill Street
Schertzer, Edward Abraham, Ba.	*Somerville, Mass.*	15 Middle Street
Schillig, Nancy Magdalene, He.	*Bangor*	8 Whitney Street, Bangor
Schmidt, Francis Victor, Wc.	*Paterson, N. J.*	Σ X House
Sewall, Calvin Brackett, Es.	*Wilton*	395 College Road
Sharp, Kenneth Leroy, Ed.	*Houlton*	Park Street
Sinclair, Richard Montague, Pa.	*Holyoke, Mass.*	Σ X House
Sleeper, Thomas Till, Me.	*Swampscott, Mass.*	Λ X Λ House
Slocum, George Chisholm, Dt.	*Worcester, Mass.*	Φ H K House
Small, Parker William, Fm.	*South Portland*	Φ M Δ House
Small, Robert Edward, Ee.	*York Village*	Σ X House
Smith, Elmer Vincent, Me.	*Newport*	Σ X House
Smith, George Henry, Me.	*Waltham, Mass.*	K Σ House
Smith, James Frederick, Ce.	*Richmond, Va.*	Σ N House
Smith, James John, Fy.	*South Portland*	7 Summer Street
Snell, Henry Ambrose, Ht.	*Gorham*	A Γ P House
Spear, Harlan Sylvester, Wc.	*Warren*	14 Middle Street
Spear, Jasper Adriel, Hy.	*Warren*	14 Middle Street
Spencer, Beverly Wellington, Hy. & Gt.	*Great Works*	Great Works
Stahl, Jacob Irving, Es.	*Peabody, Mass.*	T E Φ House
Stevens, Virginia Charlotte, He.	*Old Town*	190 North Fourth Street, Old Town
Stewart, Loren Francis, Ch.Eng.	*Augusta*	412 H. H. Hall
Stone, Beth Ward, Fr.	*Detroit*	Estabrooke Hall, South
Stone, Lois Louisa, Sy.	*Clinton, Mass.*	Estabrooke Hall, North
Stone, Theodore Miles, Ht.	*Milford*	Milford
Striar, David Philip, Me.	*Bangor*	14 Adams Street, Bangor
Susi, Roosevelt Theodore, Es. & Ba.	*Pittsfield*	395 College Road
Suslavich, John Joseph, Me.	*Liberty*	Φ Γ Δ House
Talbot, William Burrall, Hy. & Es.	*East Machias*	K Σ House
Tanner, Edward Russell, Es. & Gt.	*Jenkintown, Pa.*	Σ X House
Taylor, Charles John, Ba.	*Bangor*	15 McKinley Street, Bangor

Taylor, Mark Albert, Me.	*Newport*	Stillwater
Teague, Ella Elizabeth, He.	*Turner*	Estabrooke Hall, South
Teall, Arthur Leu. Ee.	*Glen Ridge, N. J.*	Φ Γ Δ House
Theriault, Mary Robertine, He.	*Old Town*	197 Center Street, Old Town
Thomas, Elizabeth Bernice, Eh.	*Houlton*	Estabrooke Hall, South
Thomas, Raymond Perle, Me.	*Old Town*	249 Center Street, Old Town
Thompson, Barbara Millicent, Eh.	*Brownfield*	Estabrooke Hall, South
Thompson, Elmer Patterson, Jr., Me.	*Brownfield*	K Σ House
Thompson, Gordon John, Me.	*Rockland*	88 Park Street
Thompson, Keith Marston, Fm.	*Limestone*	306 Oak Hall
Thorndike, Clara Helen, He.	*Bridgton*	The Elms
Thorne, Cherrie Madeline, He.	*St. Albans*	Estabrooke Hall, North
Thorne, John Edward, Ms.	*Island Falls*	32 College Road
Thornton, Seth Winfield, Ch.	*Belfast*	28 Main Street
Thurlow, Priscilla Emery, He.	*Buckfield*	Estabrooke Hall, North
Towne, Ruth Anna, Zo.	*East Dover*	The Elms
Tracy, John Paul, Ba.	*Lexington, Mass.*	430 College Road
Truland, Forest Wilson, Ed.	*South Portland*	32 College Road
Tukey, Spaulding Murray, Ch.	*Cape Elizabeth*	K Σ House
VanHoesen, Ellis Rugg, Hy. & Gt.	*Delmar, N. Y.*	33 Bennoch Street
Vickery, Charles Nelson, Hy.	*Pittsfield*	14 Park Street
Ward, Eleanor Louise, Eh.	*Fitchburg, Mass.*	Estabrooke Hall, South
Warren, Dorothy Lois, Al. & Hy.	*Lubec*	Estabrooke Hall, North
Warren, Harold Ernest, Ch.Eng.	*Lisbon Falls*	312 Oak Hall
Warren, Richard Lucius, Ee.	*Portland*	Λ X A House
Washburn, Robert Rider, Fm.	*Monmouth*	12½ Pleasant Street
Waterman, George Walter, Me.	*New Gloucester*	Λ X A House
Watson, John Thaxter, Ps.	*Bangor*	104 Poplar Street, Bangor
Watson, Robert John, Ba.	*Farmington*	A T Ω House
Weatherby, Beverly Donald, Fy.	*Grand Lake Stream*	Σ N House
Webber, George Franklin, Me.	*Pittsfield*	27 Myrtle Street
Webster, Arlene Janet, He.	*Auburndale, Mass.*	Balentine Hall
Welch, Charles Franklin, Me.	*Pittsfield*	85 Main Street
Wellcome, Frank Lindsay, Jr., Eng Ps.	*Cumberland Mills*	K Σ House
Weston, Donald Edward. Ee.	*Portland*	Φ K Σ House

Weston, Virginia, Fr.	*Dover-Foxcroft*	Estabrooke Hall, North
Weymouth, Helen Moore, He.	*Dexter*	Balentine Hall
Wheeler, Nathaniel Harthorn, Me.	*Waterville*	College Road
White, Mary Louise, He.	*Orono*	48 Forest Avenue
White, Mildred Cecelia, Zo.	*Costigan*	Costigan
White, Roger Edward, Eng.Ps.	*South Portland*	25 Grove Street
Whited, Harris Goodwin, Ag.	*Bridgewater*	Φ H K House
Whitney, Richard Walker, Zo.	*Marblehead, Mass.*	Σ A E. House
Wiedmer, Jack Bernard, Me.	*Glen Head, L. I., N. Y.*	Θ X House
Wight, Kent Mansfield, By.	*Madison*	25 Grove Street
Willetts, Fred Morgan, Dh.	*Orono*	Main Road
Wilson, Raymond Edwin, Ch.Eng.	*Madison*	Σ A E House
Wing, Morris Reynolds, Fy.	*Bingham*	7 Forest Avenue
Wing, Norman Adelbert, An.	*Monmouth*	12½ Pleasant Street
Winslow, Paul Lee, Ce.	*Norridgewock*	384 College Road
Winters, Gordon Henry, Ce.	*Waterville*	K Σ House
Wood, Edward Henry, Fy.	*Berwick*	Σ A E House
Woodbury, Ralph Eugene, Ch.Eng.	*Portland*	Σ X House
Woodward, Homer Clay, Fm.	*Newport*	A T Ω House
Woodward, Janice Dean, He.	*Auburn*	The Elms
Worster, Arthur Roscoe, Me.	*Madison*	University Cabin
Wyman, Walter Edward, Sy.	*Brewer*	10 Howard Street, Brewer
Young, Mary Alice, Eh.	*Winterport*	The Elms

SOPHOMORES

Abbott, Herschel George, Fy.	*Bryant Pond*	Σ N House
Abbott, Hugh Warren, Ht.	*West Paris*	25 Grove Street
Adams, Charles Boswell, Me.	*Kittery*	Φ M Δ House
Adams, Claude Henry, Arts	*Houlton*	88 Fourth Street, Bangor
Adams, George Franklin, Ae.	*West Sumner*	A T Ω House
Adler, Joseph, Jr., Arts	*Sanford*	Σ N House
Aho, Bruno Elmer, Ph.	*Union*	Kell Street
Albair, Bernard Edgar, Ch.Eng.	*Caribou*	88 Park Street
Albert, Dorothy Elizabeth, He.	*Bangor*	96 Garland Steet, Bangor
Alden, Rachel, Arts	*Dover-Foxcroft*	The Elms
Alexander, William Patterson, Ee.	*Lihue, Kauai, T. H.*	7 Kell Street

Allan, Rodney Higgins, Agr.Eng.	*South Portland*	25 Grove Street
Allen, Charles Donald, Arts	*Cape Cottage*	Φ Γ Δ House
Ambrose, James Richard, Ch.	*Bangor*	64 Earle Avenue, Bangor
Anderson, Wesley Daniel, Me.	*Mars Hill*	Park Street
Atwood, Stoughton, Eng.Ps.	*Swampscott, Mass.*	Σ X House
Austin, Franklin James, Me.	*Farmington*	College Road
Austin, John Maynard, Ce.	*Bethel*	Φ M Δ House
Bader, Richard George, Bt.	*Flushing, L. I., N. Y.*	Σ N House
Bagley, Edward Forrest, Ph.	*Albion*	25 Grove Street
Baisley, Thomas Morris, Jr., Fy.	*Yonkers, N. Y.*	Φ Γ Δ House
Bartley, Charles Everett, Eng.Ps.	*Greenville*	Φ K Σ House
Bartley, Clayton Earl, Ag.	*Orono*	26 Island Avenue
Bean, Barbara, Arts	*Newport*	Balentine Hall
Bearce, Elizabeth Talbot, He.	*Bucksport*	Balentine Hall
Bearce, George Donham, Jr., Arts	*Bucksport*	B Θ Π House
Beckman, Harry, Pa.	*Stewart Manor, N. Y.*	A T Ω House
Beedy, Robert Harlan, Ht.	*Turner*	32 Pierce Street
Bell, Dorothy Eddith, He.	*Orono*	188 Main Street
Bell, Ellis Irving, An.	*Dennysville*	Park Street
Berry, Pearl Eugenia, Arts	*Portland*	Estabrooke Hall, South
Beverage, Arthur Walter, Jr., Ce.	*North Haven*	Σ N House
Bickford, Warren Herbert, Ch.Eng.	*Ogunquit*	151 Park Street
Birch, Clifford Wadsworth, Jr., Me.	*Arlington, Mass.*	K Σ House
Bittner, Kurt Heino Felix, Wc.	*Saylesville, R. I.*	380 College Road
Blanchard, Charles Nichols, Arts	*Brooklyn, N. Y.*	Λ X A House
Bolstridge, Leslie James, Dh.	*Corinna*	25 Grove Street
Boss, Millard Otis, Me.	*Dover-Foxcroft*	Λ X A House
Boulos, Joseph Sebastian, Me.	*Portland*	Φ Γ Δ House
Bourque, Joseph Wilfred, Me.	*Portland*	41 Mill Street
Bowden, Murray Chandler, Arts	*South Penobscot*	32 Pierce Street
Brackett, Carlton Maurice, Fm.	*Newport*	University Cabin
Bradstreet, Cecil Robert, An.	*Albion*	25 Grove Street
Brady, Walter Hugh, Eng.Ps.	*Dorchester, Mass.*	Φ Γ Δ House
Bragdon, Richard Alton, Arts	*Cumberland Mills*	K Σ House
Brawn, Beverly Anne, Arts	*Brunswick*	Balentine Hall
Brawn, Erma Louise, Arts	*South Lincoln*	23 Bennoch Street
Bridges, Jennie Mae, Arts	*Calais*	Balentine Hall
Brown, Francis Almon, Pa.	*Woodland*	24 Oak Street
Brown, Rachel Elizabeth, Arts	*Skowhegan*	Balentine Hall
Brunk, Richard Moulton, Dh.	*Limington*	25 Grove Street

Bryant, Hope Goodwin, He.	*Biddeford*	Estabrooke Hall, South
Bryant, Phyllis Maude, Arts	*Madison*	The Elms
Buckley, Oliver Edward, Jr., Ce.	*Pittsfield*	B Θ Π House
Burgess, Hollis Tolman, Ph.	*Vinalhaven*	Park Street
Burnell, Grace Evelyn, Arts	*Cumberland Center*	65 College Road
Burnham, Waldo Harding, Ee.	*East Edgecomb*	Φ Γ Δ House
Burns, Gilbert Comyn, Jr., Pa.	*Newton Centre, Mass.*	A T Ω House
Butler, Eileen Lucille, Arts	*Dover-Foxcroft*	Balentine Hall
Caldwell, David Story, Jr., Fy.	*South Byfield, Mass.*	Kell Street
Came, Barbara Louise, Arts	*Bar Harbor*	Balentine Hall
Carlson, Arthur Fletcher, Ee.	*Belfast*	Θ X House
Carlson, Gilbert Mason, Fy.	*Milton, Mass.*	Φ K Σ House
Cassidy, Rita Marie, Arts	*Bangor*	363 State Street, Bangor
Chadwick, John Harold, Ht.	*Houlton*	Φ M Δ House
Chadwick, Lewis Peter, Arts	*Brewer*	R.F.D. #6, Brewer
Chandler, Sidney Hobart, Jr., Me.	*Caribou*	88 Park Street
Chapman, Mary Louise, He.	*Portland*	Estabrooke Hall, South
Chapman, Robert Loveitt, Eng.Ps.	*Portland*	Θ X House
Church, Margaret Elizabeth, He.	*Gardiner*	Estabrooke Hall, South
Chute, Philip Conrad, Wc.	*Naples*	Σ X House
Cilley, Martha Irene, Arts	*Belfast*	The Elms
Clark, Gladys Bernice, He.	*Sanford*	Estabrooke Hall, South
Clark, Virginia Dawn, Arts	*Orono*	10 Mill Street
Claverie, Sumner Abbott, Dh.	*West Roxbury, Mass.*	Σ X House
Clayton, Robert Linwood, Arts	*Ashland*	29 Pond Street
Clements, Basil Charles, Ph.	*Winterport*	Park Street
Clifford, Frank Atwood, Me.	*Dexter*	Stillwater
Clifford, George Edwin, Me.	*Boothbay Harbor*	Θ X House
Clifford, Thomas Lane, Ph.	*South Paris*	Φ M Δ House
Coffin, Charles Edward, Ee.	*Bucksport*	29 Pond Street, Bucksport
Coffin, Hazen Bartlett, Me.	*Bangor*	639 Broadway, Bangor
Coffin, Mina Alicia, Arts	*Bangor*	88 Webtser Avenue, Bangor
Coffin, Richard Hale, Ee.	*Bangor*	25 West Street, Bangor
Cohen, Eunice Beatrice, He.	*Bangor*	50 East Summer Street, Bangor
Cole, Barbara, Arts	*Bryant Pond*	The Elms
Cole, Harold Leon, Ee.	*Saco*	14 Kell Street

Cole, Winona Adelaide, He.	*Bangor*	4 North Park Street, Bangor
Collins, Richard Wesley, Ch.Eng.	*Farmington*	Φ M Δ House
Conant, Calvin Benjamin, Jr., Arts	*Auburn*	384 College Road
Conant, Virginia, Arts	*Monroe*	Estabrooke Hall, North
Cook, Wendell Hammond, An.	*Phillips*	A Γ P House
Coons, Melvin Hubert, Pa.	*Woodland*	24 Oak Street
Corliss, Roy Edward, Ag.	*Sherman Mills*	36 Grove Street
Costello, William Henry, Ee.	*South Portland*	Kell Street
Cousins, Frederick Harlan, Me.	*East Blue Hill*	25 Grove Street
Cram, Chester David, Jr., Arts	*Sanford*	Φ H K House
Crane, Talbot Harlow, Arts	*Orono*	K Σ House
Crosby, Howard Alvah, Ee	*Bangor*	321 Ohio Street, Bangor
Crossland, Carlton Elmore, Arts	*Orono*	5 Riverdale
Crossman, Mary Margaret, Arts	*Dover-Foxcroft*	Balentine Hall
Crowell, Elinor, Arts	*South Portland*	Estabrooke Hall, North
Cullinan, John Pircel, Arts	*Norway*	Φ H K House
Cunningham, Dana Roy, Me.	*Old Town*	Σ A E House
Cushman, Cedric Russell, Ch.Eng.	*Portland*	77 Mill Street
Danforth, Phyllis Louise, He.	*Ellsworth*	Estabrooke Hall, South
Daniels, Robert Louis, Ch.Eng.	*Belmont, Mass.*	33 Bennoch Street
Darling, Chester Allen, Ee.	*Orleans, Mass.*	University Cabin
Davis, Grant Freethy, Ch.Eng.	*Rockland*	Φ K Σ House
Davis, Hazel Eleanor, He.	*Old Orchard Beach*	Estabrooke Hall, North
Deering, Helen Marion, He.	*Orono*	160 College Road
Detwyler, Richard Elroy, Bt. & En.	*Yonkers, N. Y.*	38 Grove Street
Devereux, Mark Chandler, An.	*North Castine*	23 Park Street
Dexter, George Nathan, Ce.	*Dorchester, Mass.*	33 Pond Street
Dickerson, John Garland, Jr., Ch.Eng.	*Biddeford*	A T Ω House
Dingley, Dana Coolidge, An.	*Farmington*	College Road
Dixon, Doris Helen, He.	*Westbrook*	Balentine Hall
Dodge, Robert Thompson, Me.	*Bangor*	715 Ohio Street, Bangor
Dodge, William Louis, Ch.Eng.	*Bangor*	12 George Street, Bangor
Donahue, Merrill Lancey, Ch.	*Belfast*	K Σ House
Donovan, Frances Marie, Arts	*Houlton*	Estabrooke Hall, South
Dorman, Marion Rose, Arts	*Ashland*	Balentine Hall
Dorr, Lawrence Leroy, An.	*Harrington*	25 Grove Street

Dow, William MacAdam, Arts	*Portland*	7 Park Street, Rear
Drew, Frances, Arts	*Sedgwick*	Estabrooke Hall, North
Duckworth, Edward George, Arts	*North Attleboro, Mass.*	33 Bennoch Street
Dudley, Dana Forrest, Ag.	*Mapleton*	Φ H K House
Dudley, Willa Arlene, He.	*Mapleton*	Balentine Hall
Dunn, Charles Eldridge, Dh.	*Wallingford, Conn.*	Θ X House
Dyer, Helen Hall, He.	*Bangor*	Estabrooke Hall, North
Easton, Thomas William, Arts	*Bridgton*	38 Pine Street
Ebbett, Dean Wendell, Ag.	*Presque Isle*	148 Main Street
Edelstein, Albert Nathaniel, Arts	*Sanford*	T E Φ House
Ellis, Lewis Kenneth, Fy.	*Brewer*	55 Chamberlain Street, Brewer
Ellis, William Nice, Eng.Ps.	*Rangeley*	Σ A E House
Emerson, Frank Levi, Eng.Ps.	*Hampden*	Hampden
Emerson, Harold LaForest, Arts	*Island Falls*	38 Oak Street
Emery, Lewis Gardner, Me.	*Westbrook*	Φ H K House
Enman, John Aubrey, Jr., Arts	*New York, N. Y.*	Σ N House
Erikson, Gordon Iver, Arts	*Worcester, Mass.*	24 Pierce Street
Estabrook, Leo Harding, Fm.	*East Corinth*	25 Grove Street
Etzel, Bernard Adam, Ht.	*Freeport*	Greenhouse
Etzel, Edward Fredrick, Fy.	*East Haven, Conn.*	A T Ω House
Everett, John Stephen, Jr., Arts	*Hallowell*	A T Ω House
Fagerlund, Eino Waino, Ch.Eng.	*Quincy, Mass.*	Φ M Δ House
Falardeau, Edward John, Fm.	*Rumford*	24 Pierce Street
Farris, Arthur Burnell, Jr., Fy.	*Union*	Kell Street
Fenderson, Albion William, Arts	*Sanford*	25 Grove Street
Fides, Georgie Etta, Arts	*Bowdoinham*	Balentine Hall
Files, Harry Walker, Jr., Arts	*Peaks Island*	A T Ω House
Finch, John Roger, Ag.	*Newark, N. Y.*	95 Mill Street
Flanagan, Joseph Francis, Ch.Eng.	*Bangor*	207 Maple Street, Bangor
Flanders, Freda Natalie, Arts	*Bangor*	Balentine Hall
Flora, William Richard, Arts	*Caribou*	A T Ω House
Fogler, Henry Harrison, Ch.Eng.	*Hastings-on-Hudson, N. Y.*	Σ X House
Ford, Patrick Michael, Arts	*Hollywood, Calif.*	Σ X House
Foss, Virginia Evelyn, He.	*Hampden*	356 College Road
Foss, Warren Lincoln, Me.	*Farmington*	College Road
Foster, Carolyn Louise, He.	*Coopers Mills*	67 Bennoch Street

Foster, Walter Herbert, Jr., Ph.	*Belmont, Mass.*	33 Bennoch Street
Frost, Mara, Arts	*York Village*	Estabrooke Hall, South
Frost, Stanley Wilford, Fy.	*Norway*	Φ M Δ House
Furbish, Harriett Emery, Arts	*South Berwick*	Balentine Hall
Gardner, Charles Edmond, Me.	*Wakefield, Mass.*	Λ X Λ House
Gaulin, Rodolphe Alexis, Arts	*Biddeford*	16 Pine Street
Geneva, Maurice Louis, Ch.Eng.	*South Portland*	45 Mill Street
Gifford, Charlotte Mae, Arts	*Bangor*	240 State Street, Bangor
Gill, Raymond Lewis, Fm.	*Frankfort*	Λ Γ P House
Gilman, Clarence Reginald, Fy.	*Bingham*	7 Forest Avenue
Gilman, Stanley Francis, Me.	*Portland*	Σ A E House
Girard, Frances Amala, He.	*Portland*	Balentine Hall
Girdwood, James, Arts	*Castine*	Φ Γ Δ House
Given, Jane Louisa, He.	*Bowdoinham*	Balentine Hall
Godson, Lindley William, Fy.	*Long Island*	395 College Road
Goldberg, Joseph, Arts	*Bangor*	56 Essex Street, Bangor
Goldsmith, Joseph Elliott, Arts	*Old Town*	174 Stillwater Avenue, Old Town
Goldstone, Helen Charlotte, Arts	*Presque Isle*	Estabrooke Hall, South
Gooch, Earle Eastman, Arts	*Bar Harbor*	81 Main Street
Goodchild, James Carleton, Arts	*Saco*	Φ K Σ House
Gooding, William Thaxter, Jr., Ch.Eng.	*Portland*	Σ X House
Goodman, Saul, Arts	*Hartford, Conn.*	12 Pleasant Street
Goos, Celia, He.	*Bangor*	94 Court Street, Bangor
Gorham, William Bert, An.	*Dover-Foxcroft*	Λ X Λ House
Gould, Rebecca Marjorie, He.	*Milo*	Estabrooke Hall, South
Goutiere, Peter Joffre de M., Arts	*Brewer*	24 Holyoke Street, Brewer
Grady, Mary Elizabeth, He.	*Eastport*	Balentine Hall
Graffam, Donald Campbell, Arts	*Bangor*	120 Forest Avenue, Bangor
Graham, Ralph Earl, Arts	*Brewer*	B Θ Π House
Grenci, Evelyn Marie, Arts	*Peekskill, N. Y.*	Balentine Hall
Grover, Keith Leslie, Fy.	*East Stoneham*	88 Park Street
Guptill, Edward William, Me.	*Bangor*	112 Ohio Street, Bangor
Hadlock, William Kenneth, Me.	*Quincy, Mass.*	Φ Γ Δ House
Hague, Allan Perley, An.	*Gorham*	25 Grove Street
Haines, Frank Warren, Jr., Arts	*Augusta*	B Θ Π House

Hale, Titus Stuart, Fm.	*Portland, Conn.*	Φ K Σ House
Hamblen, Edward George, Fy.	*Winthrop*	A Γ P House
Hamilton, Clinton Monroe, Me.	*South Harpswell*	Θ X House
Hamm, Phillip Lord, Ed.	*Charleston*	25 Grove Street
Hancock, Owen Linwood, Fy.	*Casco*	Φ M Δ House
Hanson, Joseph Herbert, Arts	*Millinocket*	36 Grove Street
Hardie, Alexander, Jr., Ht.	*Bellevue, Pa.*	7 Kell Street
Harding, David Ray, Fy.	*Bernard*	K Σ House
Harding, William Roy, Me.	*Bernard*	K Σ House
Harlow, Richard Fessenden, Fm.	*Hyde Park, Mass.*	K Σ House
Harlow, Robert James, Pa.	*Barre Plains, Mass.*	85 Main Street
Harper, Donald Clarence, Fy.	*Rochester, N. Y.*	Φ Γ Δ House
Harrison, Robert Edward, Ee.	*Waterville*	Φ H K House
Hartley, Ralph Robertson, Ag.	*Bridgewater*	Φ H K House
Haskell, Ernest Edward, Jr., Me.	*North Anson*	Φ H K House
Hatch, Fletcher Ames, Jr., Ce.	*West Newton, Mass.*	Φ Γ Δ House
Hawkes, Ronald Morrill, Fm.	*Gorham*	Σ A E House
Hay, Robert Bernard, Me.	*Portland*	33 Bennoch Street
Heald, Alice Eleanor, Arts	*Old Town*	26A Front Street, Old Town
Heaton, Sara Margaret, Arts	*Portland*	Main Road
Hempstead, David Geer, Me.	*Bucksport*	Θ X House
Hempstead, Mary VanNess, He.	*Bucksport*	The Elms
Henry, Iva Virginia, Arts	*Thomaston*	Balentine Hall
Herbolzheimer, Fred, Jr., Pa.	*Reading, Mass.*	Σ X House
Herman, Milton, Arts	*Mt. Vernon, N. Y.*	60 Forest Avenue
Herzberg, Gerard Alexander, An.	*New York, N. Y.*	East Eddington
Hewett, Orris Churchill, Arts	*North New Portland*	16 Willow Street, Old Town
Hine, Ernest James, Me.	*Palmer, Mass.*	7 Kell Street
Hodgkins, Dorothy Leona, He.	*Northeast Harbor*	Balentine Hall
Hoffman, Everett Meyer, Arts	*Chelsea, Mass.*	30 Crosby Street
Holden, Frank Charles, Me.	*Millinocket*	Σ N House
Holland, Edward Joseph, Ch.Eng.	*Bangor*	356 French Street, Bangor
Holter, John Latimer, Ch.Eng.	*Newtonville, Mass.*	Φ Γ Δ House
Horeyseck, Paul Weidig, Ch.Eng.	*Rockland*	K Σ House
Horrocks, Rex Albert, Me.	*Wilton*	College Road
Hoyt, Louise Beryl, He.	*Fort Fairfield*	Balentine Hall
Hubbard, Robert Newton, Me.	*Pittsfield*	A T Ω House

Hunt, John Herbert, Wc.	*Fairfield*	14 Kell Street
Huntley, Edith Jordan, Arts	*Old Town*	20 Willow Street, Old Town
Hurd, Lester Merrill, Ee.	*Biddeford*	Θ X House
Hussey, Eugene Rosswell, An.	*Kezar Falls*	Φ M Δ House
Hutchinson, Gerald Guilford, Me.	*Millinocket*	151 South Brunswick Street, Old Town
Hutchinson, Lewis, Dh.	*Cumberland Mills*	Θ X House
Ingalls, Everett Palmer, Jr., Ch.Eng.	*Westbrook*	B Θ Π House
Ingalls, Robert Dale, Ch.Eng.	*Bar Harbor*	Σ A E House
Inman, Charles Priestley, Arts	*Orono*	40 Middle Street
Innes, Donald Winslow, Ce.	*South Portland*	43 Peters Street
Ireland, Winston Bruce, Ag.	*Fort Fairfield*	36 Middle Street
Jackson, Henry Alden, Ch.Eng.	*Rockville Centre, N. Y.*	Σ N House
Jacobsen, Lyman William, Ht.	*Bar Harbor*	33 Bennoch Street
Jalbert, Armand Wilfred, Ce.	*Spencer, Mass.*	100 North Main Street
Jameson, William Sherman, Ph.	*Waldoboro*	Φ K Σ House
Jardine, Donald Ross, Ch.Eng.	*Madison*	Θ X House
Jeffery, James Arthur Allan, Fy.	*North Vassalboro*	80 North Main Street
Jenkins, Robert Dunlap, Ch.Eng.	*Orono*	Σ X House
Jensen, Helena Marie, He.	*Scarboro*	Balentine Hall
Johnson, Eleanor Marilyn, He.	*Sanford*	Balentine Hall
Johnson, Justin Oley, Jr., Me.	*Waterville*	86 Mill Street
Johnson, Philip Edward, Me.	*Spencer, Mass.*	Λ X A House
Johnson, Ralph Adolph, Me.	*Lowell, Mass.*	A T Ω House
Johnston, Rita Ellen, He.	*Bangor*	Estabrooke Hall, North
Jones, Richard Frye, Ag.	*Unity*	14 Kell Street
Kaelin, Robert Werner, Wc.	*Palisade, N. J.*	Φ H K House
Kagan, Molly, Arts	*Bangor*	183 York Street, Bangor
Kay, Kenneth Joseph, Me.	*Bridgeport, Conn.*	Φ H K House
Keenan, Gerald Leo, Arts	*Mars Hill*	Park Street
Keene, Philip Earl, An.	*Appleton*	25 Grove Street
Keiter, Irving Jules, Arts	*Chelsea, Mass.*	T E Φ House
Kelley, Asenith Harriette, Arts	*Waterville*	Balentine Hall

Kelley, John Douglas, Arts	*South Portland*	Φ K Σ House
Keniston, Robert Fiske, Me.	*West Paris*	Λ X A House
Kennedy, Richard Edward, Fm.	*Monmouth*	12½ Pleasant Street
Kinney, Keith Wyman, Fm.	*Bradford Center*	A Γ P House
Kittredge, Arthur Kendall, Me.	*McKinley*	University Cabin
Klein, Ronald, Arts	*Eagle Lake*	T E Φ House
Klucken, Ralph Anthony, Me.	*East Stoneham*	33 Bennoch Street
Knight, Betty Lorraine, He.	*Unity*	The Elms
Knowles, Eleanor Marie, Arts	*Milo*	Estabrooke Hall, North
Knowlton, David Hale, Ch.	*Beverly, Mass.*	395 College Road
Ladner, Roy Alexander, Jr., Arts	*Bangor*	107 Mt. Hope Avenue, Bangor
Laliberte, William Gordon, Arts	*Brewer*	Θ X House
Langdon, Elinor Frances, He.	*Kittery*	Balentine Hall
Lange, Roland Parlin, Ch.Eng.	*The Forks*	7 Kell Street
Langley, Earl Berfield, Ag.	*Mars Hill*	University Cabin
Larsen, John Selmer, Me.	*Marblehead, Mass.*	Λ X A House
Leadbeater, Barbara Vesta, Arts	*North Whitefield*	Estabrooke Hall, South
Lees, Richard Warner, Ch.Eng.	*Hamden, Conn.*	Λ X A House
Leonard, Frederic Adams, By.	*Bangor*	20 Norfolk Street, Bangor
Leonard, Henry Grant, Jr., Fy.	*Westfield, N. J.*	Φ M Δ House
Lewis, Horace Worster, Fy.	*Bangor*	Φ M Δ House
Libby, Donald William, Pa.	*Orono*	52 North Main Street
Lindsay, William Alexander, Arts	*Arlington, Mass.*	Λ X A House
Long, Fletcher Jackson, Ht.	*South Portland*	Λ X A House
Lord, Jay Merrill, Me.	*Kezar Falls*	Φ M Δ House
Loring, Priscilla, Arts	*Freeport*	The Elms
Lorusso, Louis Paul, Arts	*East Walpole, Mass.*	6 Mill Street
Lovely, Mary Alice, Arts	*Old Town*	30 North Fourth Street, Old Town
Lutes, Olin Silas, Jr., Eng.Ps.	*Orono*	College Road
Lycette, Robert Charles, Me.	*Oakmont, Pa.*	Φ K Σ House
Lyon, Norman Richardson, Me.	*Pittsfield*	A T Ω House
McCarthy, Marcia Merrow, Arts	*Waterville*	Estabrooke Hall, South
McCarthy, Mary Eleanor, Arts	*Bangor*	256 Birch Street, Bangor
McCloskey, Hugh Francis, Arts	*Bangor*	32 Second Street, Bangor
McGlauflin, Ernest Thurston, Fm.	*Presque Isle*	26 Island Avenue
McKay, Ruth, Arts	*Old Town*	64 Bradbury Street, Old Town

McKeen, Richard Douglas, Me.	*Bangor*	16 Garland Street, Bangor
MacKenzie, Alexander William, Ch.Eng.	*Winchester, Mass.*	Farm Boarding House
MacKenzie, Victoria Evelyn, He.	*East Millinocket*	Balentine Hall
McLaughlin, Wayne Thurlow, Ce.	*Medway*	88 Park Street
MacLeod, Dorothy Elizabeth, Arts	*Bar Harbor*	Balentine Hall
Mack, Jean C., He.	*Bangor*	Estabrooke Hall, South
Maker, Irwin Wyman, Fy.	*Mattawamkeag*	Park Street
Manhire, Richard Henry, Arts	*Hallowell*	36 Grove Street
Manter, Robert Lester, Ht.	*Brunswick*	Β Θ Π House
Marden, Wilbur James, Fy.	*Monroe*	25 Grove Street
Markee, Charles Alton, Pa.	*Calais*	395 College Road
Martinez, Richard Edward, Arts	*Albany, N. Y.*	33 Bennoch Street
Merchant, James Eldridge Greene, Arts	*Newtonville, Mass.*	Σ Χ House
Millar, Robert Randolph, Me.	*Leonia, N. J.*	Φ Η Κ House
Mongovan, Harold Eaton, Pa.	*Bangor*	4 Graham Avenue, Bangor
Monohon, Janet Grace, Arts	*Brewer*	R.F.D. #7, Bangor
Moody, Dwight Campbell, Fm.	*Lincoln*	Φ Η Κ House
Mooney, Francis Cyprian, Arts	*Bangor*	33 Vine Street, Bangor
Moran, Dorothy Barbara, Arts	*Portland*	Balentine Hall
Morey, Robert Lester, Jr., Me.	*Swampscott, Mass.*	Λ Χ Α House
Morneault, Camille Etien, Ag.	*Lille*	17 Margin Street
Morrison, Charlotte Allen, He.	*Bar Harbor*	Estabrooke Hall, South
Morse, Carlton Lorin, Me.	*Newton Centre, Mass.*	Φ Η Κ House
Morse, Jean Annette, Arts	*Bangor*	101 Royal Road, Bangor
Mortland, Hilton Ralph, Fy.	*Searsport*	Park Street
Moscone, Margaret Tina, He.	*East Millinocket*	Balentine Hall
Mosher, Norman William, Pa.	*Belfast*	80 North Main Street
Moulton, Arthur Bertram, Ee.	*York Village*	151 Park Street
Moulton, James Albion, An.	*Hiram*	7 Forest Avenue
Moulton, Roger Daniels, Ee.	*York Village*	151 Park Street
Moynihan, Mary Elizabeth, Arts	*Madison*	Balentine Hall
Mudgett, Frank Aubert, Jr., Me.	*Eliot*	151 Park Street
Mullen, Helen Ruth, Arts	*Houlton*	Balentine Hall
Newdick, Robert Lincoln, Ch.Eng.	*Augusta*	Λ Χ Α House
Nickerson, Charlotte Ellen, He.	*Brewer*	98½ State Street, Brewer
Nickerson, Clifton Scales, Fy.	*Bath*	Φ Γ Δ House
Norton, George Austin, Me.	*Northampton, Mass.*	Λ Χ Α House
Nowak, Andrew Arthur, Arts	*Bangor*	50 Pine Street, Bangor

Oakes, Emily Merrill, Arts	*Freeport*	Balentine Hall
O'Brien, John Augustus, Ee.	*Lewiston*	88 Park Street
O'Neil, Wilbert Eugene, Arts	*Dresden Mills*	148 Main Street
Osgood, Gerald Colfax, Fm.	*Bradford*	Farm Boarding House
Ouellette, Dorothy Alice, Arts	*Madison*	Balentine Hall
Page, Martha, He.	*Bath*	Balentine Hall
Page, Philip Seward, Arts	*Orono*	37 Middle Street
Palmer, Edythe Frances, Arts	*Portland*	The Elms
Parker, Charles Henry, Arts	*Addison*	51 North Main Street
Parker, Clarence Willis, Me.	*Sebec Station*	20 Peters Street
Parkhurst, Mary, Arts	*Old Town*	44 High Street, Old Town
Parkin, Charles Laurence, Arts	*Bangor*	169 West Broadway, Bangor
Patten, Jeanne Louise, Arts	*Hampden Highlands*	Balentine Hall
Pearson, Margaret Elizabeth, Arts	*Kennebunkport*	Estabrooke Hall, South
Pease, George Marshall, Ce.	*Bar Mills*	Stillwater
Peckham, Malcolm Curtis, Fm.	*Taunton, Mass.*	Σ A E House
Peirce, Charlotte Sara, He.	*Bangor*	205 Elm Street, Bangor
Pendleton, Frank Emerson, Jr., Ch.Eng.	*Caribou*	395 College Road
Pennell, David Barnes, Arts	*Portland*	60 Forest Avenue
Perazzi, Francesca Mary, Arts	*Hallowell*	Balentine Hall
Perkins, Marlowe Stevenson, Arts	*Ogunquit*	6 Mill Street
Perkins, Niles Lee, Jr., Me.	*Togus*	5 Park Lane
Perkins, Stuart Hamilton, An.	*Kennebunk*	80 North Main Street
Perro, Mary Harriet, He.	*Old Town*	12 North Fourth Street, Old Town
Perry, Leonard Joseph, Jr., Ch.	*Bangor*	382 Lincoln Street, Bangor
Pfeiffer, Charles Leslie, Fy.	*South Natick, Mass.*	Φ Γ Δ House
Pierce, Richard MacMillan, Fy.	*Gardiner*	A T Ω House
Piper, Edward Herschel, Fm.	*Caribou*	32 College Road
Plaisted, Philip Heath, Bt.	*Oakland*	University Cabin
Pond, Hulda Franklin, He.	*Hampden*	Hampden
Pooler, Mary Anita, Arts	*Waterville*	Balentine Hall
Potter, Edgar Morse, Arts	*Kittery*	Θ X House
Powers, John Nolan, Ee.	*Medway*	25 Grove Street
Pratt, Bertis Lee, Jr., Arts	*Caribou*	Φ M Δ House
Price, Betty Catherine, Arts	*Washburn*	Balentine Hall
Putnam, Neal Clifford, An.	*Monroe*	25 Grove Street

Quint, Lloyd Frank, Arts	*Portland*	Σ X House
Radley, John Robert, Ch.Eng.	*Old Orchard Beach*	University Cabin
Rafferty, Thomas Hilary, Me.	*Old Town*	131 Veazie Street, Old Town
Rafford, Arthur Palmer, Ag.	*Ashland*	Φ H K House
Rand, Jane, Arts	*Cumberland Center*	Estabrooke Hall, North
Rand, Preston Brown, Arts	*Bangor*	14 Frances Street, Bangor
Rankin, Earle Alfred, Arts	*Melrose, Mass.*	58 Main Street
Ranks, John Ellis, Ee.	*South Portland*	A T Ω House
Ransden, Proctor Wayne, Fy.	*Lowell, Mass.*	Θ X House
Renwick, Erle Bingham, Jr., Ge.	*Kents Hill*	33 Bennoch Street
Reynolds, Bion Edward, Ce.	*Winthrop*	Φ M Δ House
Reynolds, Edgar Bradford, Fm.	*South Portland*	33 Bennoch Street
Reynolds, Eugene Earl, Arts	*Lubec*	85 Main Street
Rich, David Elmer, Jr., Me.	*Bath*	Σ N House
Rideout, Elmer William, Jr., Arts	*Niagara Falls, N. Y.*	38 Oak Street
Roach, Robert Garfield, Eng.Ps.	*Orono*	12 Pond Street
Robbins, Stephen Leon, Fy.	*Kittery*	Σ N House
Roberts, Shirley Alford, Arts	*Calais*	29 Elm Street, Old Town
Robinson, Donald Manfred, Ee.	*Staten Island, N. Y.*	Σ N House
Robinson, Edward Alfred, Fy.	*Bronxville, N. Y.*	B Θ Π House
Rollins, Lawrence Hollis, Ee.	*Haynesville*	A T Ω House
Rolnick, Ida Sonya, Arts	*Bangor*	17 Adams Street, Bangor
Rosie, Robert Edward, Me.	*Bangor*	80 Wiley Street, Bangor
Rostron, James Longworth, Me.	*Kittery*	384 College Road
Rourke, Marie Josephine, Arts	*Winthrop*	The Elms
Rowell, Ruth Olive, Arts	*Thomaston*	Estabrooke Hall, South
Rubinoff, Sally, Arts	*Auburn*	Balentine Hall
Runels, Ralph Charles, Ce.	*Lowell, Mass.*	A T Ω House
Russell, James William, Fy.	*Gray*	University Cabin
Sargent, Mary Elizabeth, He.	*Alton*	Spring Street, Stillwater
Savage, Lois Ann, He.	*Springfield, Mass.*	Estabrooke Hall, North
Sawyer, Carl Leslie, Ag.	*Newport*	25 Grove Street
Sawyer, Charles Welch, Jr., Arts	*Southwest Harbor*	Σ N House
Schneider, Hyman Nathan, Arts	*Mattapan, Mass.*	30 Crosby Street
Schofield, Wentworth Henry, Jr., Me.	*Portland*	77 Mill Street

Schuerfeld, Warren Frederick, Me.	*West Roxbury, Mass.*	100 North Main Street
Scott, Robert Falcon, Wc.	*Bolton, Mass.*	384 College Road
Shaw, Richard Harmon, An.	*Sanford*	Λ T Ω House
Shepard, Frederick Johnson, III, Me.	*West Newton, Mass.*	Φ Γ Δ House
Shepard, Henry Moore, Fy.	*Alford, Mass.*	Λ T Ω House
Simons, Lee, Arts	*Chestnut Hill, Mass.*	T E Φ House
Sinkinson, Richard, Arts	*Saylesville, R. I.*	Σ X House
Sinnett, Clifford Henry, Arts	*Portland*	384 College Road
Smiley, Samuel Perry, An.	*Waterville*	Θ X House
Smith, Arthur Warren, Ce.	*Richmond, Va.*	Σ N House
Smith, Bernard Raymond, Fm.	*Mars Hill*	Λ X Λ House
Smith, Paul, Arts	*Bangor*	345 Hancock Street, Bangor
Smith, Stanley Bartlett, Ph.	*Turner Center*	32 Pierce Street
Snell, Daniel Tozier, Ch.Eng.	*Gorham*	K Σ House
Soderberg, Robert Howes, Ce.	*Hartford, Conn.*	Φ M Δ House
Solie, Joanne Marie, He.	*Dixfield*	Balentine Hall
Springer, Mary, He.	*Portland*	Estabrooke Hall, South
Stairs, Carroll Arthur, Fm.	*Orono*	13 Middle Street
Standish, Bret Martin, Arts	*Baldwin, N. Y.*	Σ N House
Staub, Walter Mitchell, Pa.	*Valleyfield, Que., Canada*	33 Bennoch Street
Stevens, Gerald Charles, Ag.	*Fort Fairfield*	Φ H K House
Stevens, Joseph Benjamin, An.	*Vassalboro*	25 Grove Street
Stevens, Natalie Marion, Arts	*Bangor*	68 Boutelle Road, Bangor
Stewart, John Charles, Eng.Ps.	*Brookline, Mass.*	Φ K Σ House
Stickney, Wendell Hayward, Me.	*Brownville*	84 College Road
Stratton, Richard Earle, Ce.	*Reading, Mass.*	Σ N House
Stritch, Marjorie Edith, Arts	*Sanford*	Estabrooke Hall, North
Strout, Warren Greenleaf, Arts	*Dexter*	Λ T Ω House
Sturgis, David William, Jr., Me.	*Gorham*	15 Park Street
Sullivan, Walter Leeman, Me.	*Portland*	Λ T Ω House
Suneson, Victor Carl, Fy.	*Hartford, Conn.*	7 Summer Street
Supovitz, Stanley Shepard, Arts	*Lewiston*	T E Φ House
Swanson, Eleanor Josephine, Arts	*Brewer*	5 Washington Street, Brewer
Talbot, Philip Henry, Jr., Arts	*Portland*	384 College Road
Tarr, Mary Lenora, Arts	*Baltimore, Md.*	Estabrooke Hall, North

Taverner, Donald Vardy, Arts	*Augusta*	University Cabin
Tebbets, Claire Marian, Arts	*Lockes Mills*	Balentine Hall
Thomas, Janice Melendy, Arts	*Bangor*	Estabrooke Hall, North
Thompson, Berneice Edith, He.	*West Enfield*	Balentine Hall
Thurlow, Everett Beach, Dh.	*Lee*	88 Park Street
Titcomb, Alton Vernon, Agr.Eng.	*Houlton*	Park Street
Titcomb, Edward Payson, Ag.	*Monticello*	Park Street
Tondreau, Evelyn Georgianna Olive, Arts	*Brunswick*	Balentine Hall
Tooley, Gordon Kenneth, Ce.	*Greenwich, Conn.*	Φ M Δ House
Torrey, Charlotte Marie, Arts	*Bangor*	104 Royal Road, Bangor
Tourtillotte, Harry Elmer, Jr., Me.	*Old Town*	74 South Brunswick Street, Old Town
Tozier, Enid Frances, He.	*Solon*	Balentine Hall
Trefethen, Parker Scott, Wc.	*Wilton*	College Road
Twitchell, Rachel Iva, He.	*Bryant Pond*	Balentine Hall
VanTassell, Hazel Marie, Arts	*Houlton*	160 Stillwater Avenue, Old Town
Varnam, Leonard Eaton, Ph.	*Limington*	25 Grove Street
Varney, Willard Patrick, Ch.	*Bangor*	104 Third Street, Bangor
Verrill, Marjorie Rebecca, Arts	*Winterport*	Campus
Viles, Frederick Marshall, Eng.Ps.	*Skowhegan*	A T Ω House
Walden, Edwin Schuyler, Agr.Eng.	*Greenville*	Φ K Σ House
Walker, Bette Jane, He.	*Presque Isle*	Balentine Hall
Ward, Gerald Madison, Dh.	*Thorndike*	25 Grove Street
Ward, Lowell Ellwood, Ce.	*Brighton*	A T Ω House
Warren, Wallace Flagg, An.	*Newport*	B Θ Π House
Watson, Carlisle Vives, Jr., Ee.	*Cape Cottage Park*	Σ N House
Watson, George Albert, Ce.	*Wilton*	Σ X House
Webbley, Doris Louise, Arts	*Augusta*	Estabrooke Hall, South
Webster, John Peters, Arts	*Bangor*	435 Union Street, Bangor
Weidman, George Robert, Fy.	*Providence, R. I.*	24 Oak Street
Weinstein, Milton, Arts	*Bangor*	55 Parkview Avenue, Bangor
Weisman, Robert Harry, Arts	*Portland*	12 Pleasant Street
Welch, Walter Raynes, Wc.	*Rumford*	Σ A E House
West, Clifford Harry, Jr., Arts	*Bangor*	146 Elm Street, Bangor
Wheeler, Donald Battye, Arts	*Danvers, Mass.*	Λ X A House
White, David Walter, Jr., Ch.	*Topsham*	7 Summer Street

White, Lois Evelyn, He.	*Augusta*	Balentine Hall
Whitney, Nellie Marie, Arts	*East Corinth*	Balentine Hall
Wilbur, Oscar Milton, Jr., Ch.Eng.	*Cape Cottage*	Σ A E House
Wilcox, Frances Rita, Arts	*Portland*	The Elms
Willets, Seth Barrows, Me.	*Roslyn, L. I., N. Y.*	K Σ House
Williams, Margaret June, He.	*Hodgdon*	Estabrooke Hall, South
Wilson, John Merrill, Fy.	*Lynn, Mass.*	32 College Road
Wilson, Kermit Blanchard, Me.	*South Paris*	Σ X House
Wilson, Ruth Augusta, He.	*Madison*	Balentine Hall
Witham, Hubert Edwin, Me.	*Orono*	24 Pierce Street
Woodward, Edward, Me.	*Providence, R. I.*	Φ M Δ House
Wooster, Harry Macomber, Ce.	*Old Town*	258 Center Street, Old Town
Worrick, Robert Clifton, Fy.	*Wellesley, Mass.*	Φ M Δ House
Worthen, Mary Ellen, Arts	*Bangor*	96 Forest Avenue, Bangor
Wright, Helen Nancy, Arts	*Wellesley, Mass.*	Estabrooke Hall, South
Wright, Kenneth Fernald, Arts	*Westbrook*	B Θ Π House
Youlden, Richard Howard, Ce.	*Needham, Mass.*	Φ M Δ House
Young, Joseph Andrews, Fy.	*Corea*	Φ H K House
Young, Keith Edmond, Fy.	*Portland*	University Cabin
Young, Norman Belmont, Ee.	*Hancock*	395 College Road

UPPERCLASS STUDENTS CONDITIONED FOR ADMISSION

Bacon, Otis Zalmon, Me	('43)	*Oakland*	25 Grove Street
Carter, G. Milton, Arts	('43)	*Caribou*	B Θ Π House
Fides, Avery Meader, Jr., Arts	('43)	*Bowdoinham*	Φ H K House
Grindle, Louise Helen, Arts	('43)	*Mount Desert*	32 West Broadway, Bangor
LaCroix, Harold Joseph, Arts	('43)	*Fort Williams*	505 College Road
Roll, Warren Roosevelt, Arts	('43)	*Glen Cove, N. Y.*	A T Ω House

FRESHMEN

Abbott, Donald Weare, Arts	*West Newton, Mass.*	402 H. H. Hall
Adams, Carolinn, He.	*Farmington*	Colvin Hall

Adams, Floyd James, Agr.	*Dryden*	401 H. H. Hall
Adams, Holyoke Purinton, Agr.	*Melrose, Mass.*	203 Oak Hall
Allen, Albertie Mae, Arts	*New Portland*	Colvin Hall
Allen, Martha Frances, He.	*Auburn*	Colvin Hall
Allen, Winfield Tennent, Ch.	*Sanford*	209 H. H. Hall
Amsden, Raymond Emery, Agr.	*Detroit*	56 Park Street
Anderson, Avis Eldora, He.	*Newport*	65 Forest Avenue
Angel, Charles Robert, Agr.	*Waterville*	23 North Hall
Ashman, Rena Miriam, Arts	*Augusta*	Colvin Hall
Atkinson, Edward Gerald, Ch.Eng.	*Bath*	205 H. H. Hall
Atkinson, Robert Gordon, Arts	*Fort Fairfield*	102 H. H. Hall
Atwood, Raymond Hymers, Ch.Eng.	*Rumford*	410 Oak Hall
Avery, Harold Sidney, Jr., Arts	*Bath*	403 Oak Hall
Babson, Norma Lloyd, Arts	*Blue Hill*	The Elms
Bagley, George Francis, Ee.	*Orono*	75 Forest Avenue
Bailey, Eugene Leroy, Arts	*Lubec*	411 H. H. Hall
Bailey, Frank Herbert, Ch.Eng.	*Augusta*	27 North Hall
Baird, Frederick Thomas, Jr., Fy.	*Bangor*	15 North Hall
Banton, Arabelle Gray, Arts	*Summit, N. J.*	Colvin Hall
Banton, George Walter, Arts	*Island Falls*	305 Oak Hall
Barbero, Giulio John, Arts	*Bangor*	41 Birch Street, Bangor
Barker, Jane Shirley, Arts	*Farmington*	Colvin Hall
Barstow, Roy Wellington, Jr., Ch.Eng.	*Brewer*	52 Chamberlain Street, Brewer
Bartlett, Alan Hill, Agr.	*Needham, Mass.*	101 H. H. Hall
Bartlett, Christine Elena, He.	*Portland*	Balentine Hall
Bartlett, Howard Delano, Agr.Eng.	*Damariscotta Mills*	29 Pond Street
Bartley, Elmer Chase, Ch.	*Orono*	26 Island Avenue
Batchelder, Robert Sumner, Arts	*Kezar Falls*	105 Oak Hall
Bates, Burt Eugene, Ch.Eng.	*Hodgdon*	68 Main Street
Bean, Donald Wesley, Me.	*Charleston*	Bennoch Street, Stillwater
Belden, Sylvia Janet, Arts	*Prentiss*	The Elms
Bennett, John Chandos, Fy.	*Natick, Mass.*	305 H. H. Hall
Benson, Frances Elizabeth, Arts	*Manset*	Balentine Hall
Berce, Pauline Ruth, He.	*Washburn*	Colvin Hall
Beverage, Robert Mellen, Ch.Eng.	*Oakland*	53 Bennoch Street
Bickford, Mary Eleanor, He.	*Bangor*	Colvin Hall
Billings, Mary Niles, He.	*Stonington*	Balentine Hall

Blaisdell, Ruth Mildred, Arts	*Ellsworth*	Balentine Hall
Bodwell, Russell Seavey, Eng.	*Portland*	111 H. H. Hall
Bond, Lyndon Herrick, Fy.	*Bangor*	121 Grant Street, Bangor
Bonney, Herman Wilford, Eng.	*Portland*	University Cabin
Bowker, Frank Gilmore, Ch.Eng.	*Bradley*	Pine Street, Bradley
Bowley, Robert Prescott, Arts	*West Appleton*	Park Street
Boyle, Florence Gertrude, Arts	*Bangor*	59 Essex Street, Bangor
Brackett, Manley Russell, Arts	*Limington*	203 H. H. Hall
Brackett, Mary Elizabeth, Arts	*Portland*	Balentine Hall
Bradbury, Burke, Jr., Me.	*Stratford, Conn.*	88 Park Street
Bradbury, Olive Frances, He.	*Hollis Center*	Colvin Hall
Braley, Clyde Leon, Jr., Ce.	*Auburn*	88 Park Street
Brewer, Albert Clarence, Jr., Agr.	*Presque Isle*	203 H. H. Hall
Brewer, Leslie Clarence, Ee.	*Bar Harbor*	110 H. H. Hall
Broder, Irving Seymour, Arts	*Bangor*	200 Leighton Street, Bangor
Broisman, Emma Rae, Arts	*Portland*	Balentine Hall
Broisman, Raymond, Ch.Eng.	*Portland*	309 H. H. Hall
Bronsdon, William Prentice, Agr.	*Newton, Mass.*	100 North Main Street
Brooks, William Edmund, Ce.	*Rumford*	410 H. H. Hall
Brown, Bevely Scott, Me.	*Bangor*	R.F.D. #7, Bangor
Brown, David Alden, Agr.	*Wollaston, Mass*	30 North Hall
Brown, Eunice Marie, Arts	*LaGrange*	26 Fifth Street, Old Town
Brown, Frank Winfield, Jr., Arts	*Mars Hill*	309 Oak Hall
Brown, Marie Edna, Arts	*Bangor*	R.F.D. #3, Bangor
Brown, William Smardon, Arts	*Portland*	405 H. H. Hall
Brownlee, Hugh Malcolm, Me.	*Saco*	9 Franklin Street, Stillwater
Bruce, Frances Madeline, He.	*Hampden*	Hampden
Brundage, Robert Wells, Agr.	*Danbury, Conn.*	101 H. H. Hall
Bryan, Donald French, Arts	*Orono*	4 University Place
Buchanan, Robert Duncan, Arts	*Caribou*	409 H. H. Hall
Buck, Robert Jacques, Fy.	*Hempstead, L. I., N. Y.*	210 H. H. Hall
Bunker, Ruth Adelaide, Arts	*Calais*	Colvin Hall
Burgess, Sumner Lawrence, Fy.	*Sangerville*	35 Grove Street
Burleigh, Lucy Dickerson, Arts	*South Berwick*	Balentine Hall
Burnett, Berna May, Arts	*Brownville Junction*	Colvin Hall
Burrill, Margaret Frances, Arts	*Bangor*	11 Ohio Street, Bangor

Burrill, Richard Moore, Me.	*Dexter*	304 Oak Hall
Butler, Marjorie Louise, Arts	*Union*	The Elms
Butler, Melvin Metcalf, Fy.	*Wellesley Hills, Mass.*	401 H. H. Hall
Butters, Muriel Elizabeth, He.	*East Corinth*	The Elms
Byam, Robert Spaulding, Fy.	*Lowell, Mass.*	13 North Hall
Byrne, Charles Scott, Ch.Eng.	*Ellsworth*	25 Grove Street
Cabot, Philip Dwight, Me.	*Winchester, Mass.*	203 Oak Hall
Cahoon, David Linwood, Ch.Eng.	*Fairhaven, Mass,*	411 H. H. Hall
Carrier, Charles Moshur, Jr., Me.	*Millinocket*	24 North Hall
Carter, Maxwell Benjamin, Jr., Pa.	*South Chelmsford, Mass.*	402 Oak Hall
Chadwick, Richard Young, Agr.	*Portland*	15 North Hall
Chalmers, Linwood Sumner, Me.	*Bangor*	111 Oak Hall
Chapman, Charles Vaughn, Jr., Ce.	*Augusta*	11 North Hall
Chase, Margaret Loret, Ce.	*Auburn*	The Elms
Checchi, Arthur Alfred, Arts	*Calais*	207 H. H. Hall
Cheney, Philip Dana, Ch.Eng.	*Ashland*	208 H. H. Hall
Cheney, William Glen, Me.	*Ashland*	29 Pond Street
Chesworth, William, Jr., Me.	*East Milton, Mass.*	406 H. H. Hall
Clapp, Elwood Irvin, Jr., Ch.Eng.	*Newton Highlands, Mass.*	311 Oak Hall
Clark, David Temple, Ce.	*Kennebunkport*	310 H. H. Hall
Clark, Elsie Pauline, He.	*North New Portland*	Colvin Hall
Clark, Robert Vaughan, Arts	*Fort Kent*	24 Pierce Street
Clement, Warren Guy, Ch.Eng.	*Portland*	412 Oak Hall
Clements, Alvord White, Fy.	*Bangor*	111 H. H. Hall
Clifford, Helen Louise, He.	*South Paris*	Colvin Hall
Closson, Kenneth Leroy, Arts	*Ellsworth*	25 Grove Street
Coffin, Marguerite Anne, Arts	*Bangor*	25 West Street, Bangor
Colcord, Josiah Edward, Jr., Ce.	*South Portland*	406 Oak Hall
Collins, Edith Anna, He.	*Wollaston, Mass.*	Colvin Hall
Comstock, Vaughn Wesley, Ce.	*Millinocket*	110 Oak Hall
Condon, William Henry, Ce.	*Newport*	409 H. H. Hall
Conners, John Deady, Me.	*Old Town*	306 Center Street, Old Town
Cook, Arthur Bradford, Jr., Arts	*Saco*	409 Oak Hall
Cook, Joyce Marion, Agr.	*Portland*	The Elms
Coombs, Percy Harmon, Ce.	*Boothbay Harbor*	307 H. H. Hall

Cooper, Patricia Evelyn, He.	*Auburn*	Balentine Hall
Cosseboom, Maida Katherine, He.	*Brewer*	110 Parker Street Brewer
Cott, William Marcus, Jr., Me.	*South Portland*	206 Oak Hall
Courtney, Joseph Donald, Arts	*Boston, Mass.*	27 North Hall
Cousins, Arline Heath, He.	*Westbrook*	Balentine Hall
Covell, Robert Carvel, Arts	*Monmouth*	411 Oak Hall
Cowan, Douglas Reinhard, Ch.Eng.	*Portland*	201 Oak Hall
Cowin, Pauline Frances, Arts	*Orono*	8 Elm Street
Cox, Louisa May, Arts	*Orono*	3 Brook Street
Coyne, Mary Natalie, Arts	*Bangor*	118 Palm Street, Bangor
Crocker, Charles Francis, Ch.Eng.	*Centerville, Mass.*	303 H. H. Hall
Crockett, Alan Dodge, Me.	*Addison*	6 Mill Street
Crockett, Albert Day, Jr., Arts	*Auburn*	202 H. H. Hall
Cullen, William Joseph, Ch.Eng.	*Auburn*	404 H. H. Hall
Curtis, Benjamin Arthur, Agr.	*Caribou*	408 H. H. Hall
Curtis, Natalie Louise, He.	*Portland*	Balentine Hall
Cushing, Gwendolyn Echo, Arts	*Portland*	The Elms
Cushman, Robert Francis, Ce.	*South Portland*	403 Oak Hall
Cutler, Jean, Arts	*Portland*	Colvin Hall
Cutter, Marshall Winton, Eng.	*Bangor*	237 Parkview Avenue, Bangor
Dagan, Marshall Benjamin, Me.	*York Village*	211 Oak Hall
Daggett, Ellen White, Arts	*Milo*	The Elms
Damon, Howard Curtis, Arts	*Buckfield*	201 H. H. Hall
Daniels, Norma Leah, Arts	*Caribou*	Balentine Hall
Davis, Arthur Alexander, Fy.	*New York, N. Y.*	304 H. H. Hall
Davis, Dudley Edgar, Ee.	*Duxbury, Mass.*	401 Oak Hall
Davis, Elbridge Burton, Arts	*Calais*	311 Oak Hall
Davis, Harrison Everett, Agr.	*Liberty*	Park Street
Davis, Richard Irving, Ee.	*Auburn*	112 H. H. Hall
Davis, Ruth Corinne, He.	*Old Town*	11 North Fourth Street, Old Town
Davis, Wayne Lowell, Me.	*Medway*	25 Grove Street
Day, Philip Floyd, Arts	*Orono*	203 Main Street
Dean, George Ansel, Ee.	*Derby*	403 H. H. Hall
Desmond, Mildred, He.	*Patten*	Balentine Hall
DeWitt, Horace Ezekiel, Agr.	*Sherman Mills*	University Cabin
Dickey, Herbert Roberson, Jr., Ch.Eng.	*Hampden Highlands*	Hampden Highlands

DiFalco, James Emanuel, Ch.Eng.	*Haverhill, Mass.*	409 Oak Hall
Dimitre, Howard Edward, Me.	*Calais*	207 H. H. Hall
Dodge, Richard William, Ee.	*Brunswick*	301 H. H. Hall
Dole, Agnes Rebecca, Arts	*Bangor*	R.F.D. #2, Bangor
Doore, Barbara, Arts	*Lynnfield Center, Mass.*	Balentine Hall
Doore, Orman Brown, Agr.	*Lynnfield Center, Mass.*	104 Oak Hall
Dorr, Frances Elaine, Arts	*Endicott, N. Y.*	Balentine Hall
Dow, Harold Raymond, Arts	*Houlton*	77 Mill Street
Drinkwater, Deborah Isabelle, He.	*Brewer*	26 East Summer Street, Brewer
Duran, Ruth Virginia, Arts	*Bangor*	Cram Road, Bangor
Dyer, Milton Earl, Jr., Me.	*Camden*	395 College Road
Eastman, Paul Jean, Agr.	*Smyrna Mills*	312 H. H. Hall
Eaton, Priscilla Rice, He.	*Melrose, Mass.*	Colvin Hall
Ehrenfried, Albert Dawber, Eng.	*Lewiston*	410 Oak Hall
Elashowich, Murray, Me.	*Roxbury, Mass.*	309 H. H. Hall
Ellis, Edward McDuffee, Arts	*York Beach*	307 Oak Hall
Ellis, Effie Susanne, Arts	*Brewer*	55 Chamberlain Street, Brewer
Emery, Elizabeth Franca, Arts	*Fairfield*	Balentine Hall
Etter, Kathryn Elizabeth, Arts	*Bar Harbor*	98 Mill Street
Evans, Wayne Stirling, Agr.	*Orono*	8 Kell Street
Evans, Weston Sumner, Jr., Ce.	*Orono*	8 Kell Street
Evdo, Roman, Pa.	*Brooklyn, N. Y.*	407 H. H. Hall
Farnum, Francis Hamilton, Jr., Eng.	*Augusta*	204 Oak Hall
Farris, Elizabeth Mae. He.	*Union*	The Elms
Feeley, John Warren, Me.	*New Harbor*	412 H. H. Hall
Fettinger, Theodore Ford, Fy.	*Maplewood, N. J.*	301 Oak Hall
Fielder, Mary Emily, He.	*Orono*	37 Pine Street
Findlen, Joseph Peter, Agr.	*Fort Fairfield*	404 Oak Hall
Finnigan, Thomas Edward, Arts	*New Haven, Conn.*	36 Grove Street
Fitch, Lucille Parker, Arts	*Waterville*	The Elms
Fleming, Paul Gordon, Eng.	*Gardiner*	405 Oak Hall
Fogg, Jesse Willard, Ch.Eng.	*Hulls Cove*	411 H. H. Hall
Fogler, Mary Aurelia, He.	*Hastings-on-Hudson, N. Y.*	Colvin Hall

Folsom, Rose Irene, He.	*Dover-Foxcroft*	82 Main Street
Ford, William Blanchard, Jr., Me.	*Norwell, Mass.*	405 Oak Hall
Forrester, John McIntyre, Jr., Agr.	*Oradell, N. J.*	304 H. H. Hall
Foss, Virginia Eileen, He.	*Dover-Foxcroft*	Balentine Hall
Foster, Augusta Flora, Arts	*Ellsworth*	Balentine Hall
Foye, Robert Ernest, Ee.	*Gardiner*	107 Oak Hall
Freedman, Herbert, Ch. Eng.	*Portland*	12 Pleasant Street
Freeman, Miles Covell, Agr.	*Portland*	203 H. H. Hall
Freese, William Atwood, Agr.	*East Corinth*	308 H. H. Hall
French, Edmund Blaine, Me.	*Hampden Highlands*	Hampden Highlands
Frost, Alton Reynolds, Arts	*York Village*	110 H. H. Hall
Frost, Cornelius Webster, Jr., Agr.	*Bangor*	174 Leighton Street, Bangor
Fuller, George Virgil, Jr., Arts	*Albany, N. Y.*	103 H. H. Hall
Fuller, Richard Henry, Arts	*Portland*	23 North Hall
Fulton, Clare Kendall, Ch.Eng.	*Bath*	205 H. H. Hall
Gamber, Alfred David, Ch.Eng.	*Pelham, N. Y.*	311 H. H. Hall
Garvin, Gerald Roscoe, Ch.Eng.	*Springvale*	407 Oak Hall
Gedney, Doris Edith, Arts	*Bangor*	175 Cedar Street, Bangor
Gilley, Frank Palmer, Arts	*Southwest Harbor*	105 Oak Hall
Gilpatrick, Arthur Lee, Agr.	*Whiting*	Park Street
Gleason, Thomas Edward, Eng.	*Bangor*	95 Otis Street, Bangor
Glidden, Carl Wilbur, Jr., Ee.	*Bangor*	University Cabin
Gooch, Doris Eleanor, Arts	*Brunswick*	Balentine Hall
Goodrich, Virginia Rolfe, He.	*Norwich, Conn.*	Colvin Hall
Goodwin, Donald Leslie, Ge.	*Brewer*	119 Parker Street, Brewer
Goos, Julius James, Eng.	*Bangor*	183 York Street, Bangor
Graham, Lawrence Allen, Ch.Eng.	*South Hadley, Mass.*	210 Oak Hall
Graves, Sidney Keith, Arts	*Presque Isle*	201 H. H. Hall
Greenleaf, Arthur Russell, Jr., Ce.	*Boothbay Harbor*	307 H. H. Hall
Gross, Lester Fuller, Ce.	*Camden*	109 Oak Hall
Gross, Milton Maurice, Arts	*Bangor*	381 Ohio Street, Bangor
Grotefend, Robert Tiffany, Fy.	*West Englewood, N. J.*	302 H. H. Hall
Gunn, George Piers, Arts	*Bangor*	143 Essex Street, Bangor
Hackett, Edward Joseph, Ce.	*Caribou*	20 North Hall
Hahnel, Oscar Richard, Jr., Agr.	*Lewiston*	205 Oak Hall

Haines, Philip Leigh, Agr.	*Fort Fairfield*	306 H. H. Hall
Hale, Fred Harold, Ce.	*South Portland*	401 Oak Hall
Hale, Richard Augustus, 2nd, Fy.	*Lisbon Falls*	302 Oak Hall
Hall, Ruth Ann, Arts	*Orono*	24 Crosby Street
Ham, Robert Dale, Ee.	*Springfield*	104 H. H. Hall
Hamblett, Edward Blakeley, Jr., Ee.	*Bath*	404 Oak Hall
Hamm, Paul Judson, Ch.Eng.	*Bangor*	Essex Street, Bangor
Hanson, Beulah Mary, Arts	*Lee*	Colvin Hall
Hardy, Herbert Vinal, Agr.Eng.	*Hope*	College Road
Hardy, Malcolm David, Ce.	*Bangor*	164 Forest Avenue, Bangor
Harris, William Laird, 3rd, Agr.Eng.	*Portland*	410 H. H. Hall
Harthorn, Paul Dudley, Ch.Eng.	*West Pembroke*	403 H. H. Hall
Hary, Louis Jacob, Ch.Eng.	*Camden*	16 North Hall
Haskell, James Leland, Fy.	*Hingham, Mass.*	112 H. H. Hall
Hastings, James Edward, Arts	*Bangor*	41 Linden Street, Bangor
Hayes, Edward Richard, Ch.	*Lewiston*	412 H. H. Hall
Hayman, Albion Seth, Agr.	*Brookton*	403 H. H. Hall
Henderson, Richard Wright, Fy.	*Reading, Mass.*	100 North Main Street
Henderson, Robert Fisher, Eng.	*Reading, Mass.*	100 North Main Street
Henneberry, James Francis, Jr., Arts	*Amesbury, Mass.*	204 Oak Hall
Henry, George Vane, Arts	*Orono*	10 Pine Street
Hescock, Francis Pinkham, Me.	*Gardiner*	25 North Hall
Higgins, Frances Arlene, Arts	*Waterville*	Colvin Hall
Higgins, Philip Wayne, Ch.Eng.	*Bangor*	706 Broadway, Bangor
Higgins, Richard Bradley, Arts	*Ellsworth*	204 H. H. Hall
Hill, John Austin, Jr., Me.	*Natick, Mass.*	312 H. H. Hall
Hillman, Arthur Merle, Arts	*Kenduskeag*	20 Peters Street
Hillson, Harvey David, Ch.Eng.	*Orono*	14 Pine Street
Hodgdon, George Irving, Jr., Me.	*East Boothbay*	402 H. H. Hall
Hodges, Benjamin Franklin, Jr., Ee.	*Reading, Mass.*	107 Oak Hall
Hodges, Donald Isaiah, Me.	*Turner*	103 H. H. Hall
Hodson, Harry Douglas, Me.	*Camden*	Park Street
Holden, Esther Cushing, Arts	*Portland*	Colvin Hall
Holden, Malcolm Porter, Pa.	*West Hartford, Conn.*	404 H. H. Hall
Holland, Henry, Arts	*Calais*	103 Oak Hall
Holland, Hugh Terence, Ch.Eng.	*Bangor*	356 French Street, Bangor

Honeyman, Henry Walter, 3rd, Me.	*Riverside, R. I.*	209 H. H. Hall
Hooper, Helen Maxim, He.	*West Peabody, Mass.*	Balentine Hall
Hoover, Robert Marsh, Ee.	*Gorham*	100 North Main Street
Hopkins, Barbara Wing, Arts	*Bath*	Colvin Hall
Hopkins, Priscilla Anne, Arts	*Waterville*	Colvin Hall
Hopkinson, Ralph Hamilton, Ch.Eng.	*Portland*	302 H. H. Hall
Horzempa, Lewis Joseph, Ch.Eng.	*Winthrop*	Park Street
Houghton, Frances Louise, He.	*Fort Fairfield*	Colvin Hall
Houlihan, William Thomas, Arts	*Bangor*	46 Fern Street, Bangor
Howard, John Clarence, Ee.	*Bangor*	203 Nowell Road, Bangor
Hoy, Joseph Eugene, Ch.Eng.	*Sherman Mills*	11 North Hall
Hufnagel, Jean George, Pa.	*Baldwin, L. I., N. Y.*	309 Oak Hall
Hulse, Silas, III, Ch.	*Tenafly, N. J.*	301 H. H. Hall
Hutchinson, Alfred, Arts	*Danvers, Mass.*	406 Oak Hall
Ingraham, Hattie Elizabeth, He.	*Thorndike*	Balentine Hall
Innes, Richard Burgess, Ce.	*South Portland*	407 Oak Hall
Irvine, Carol Jennette, Arts	*Framingham, Mass.*	Colvin Hall
Iveney, Joyce Rutherford, He.	*Eastport*	Balentine Hall
Jackman, Laura Baker, Arts	*Calais*	The Elms
Jacobs, Stephen Loring, Fy.	*Hingham, Mass.*	211 Oak Hall
James, Irene Claribel, Arts	*Woodland*	Balentine Hall
Jewett, Charles Lincoln, Ch.Eng.	*Brookline, Mass.*	112 H. H. Hall
Johns, Willard Thomas, Jr., Fy.	*Maplewood, N. J.*	301 Oak Hall
Johnson, Kenneth Sherman, Jr., Ce.	*Providence, R. I.*	409 H. H. Hall
Johnson, Wendell Philip, Me.	*Long Island*	403 H. H. Hall
Johnstone, John Harold, Arts	*Bangor*	192 Webster Avenue, Bangor
Jones, Barbara Alice, He.	*Sumner*	Colvin Hall
Jones, Frederick Sawtelle, Jr., Me.	*Swampscott, Mass.*	102 Oak Hall
Jones, Luella Louise, He.	*Presque Isle*	75 Forest Avenue
Jones, Richard Brooks, Agr.	*Veazie*	Veazie
Jordan, Kenneth Clark, Eng.	*Ellsworth*	Park Street
Junkins, Stanley Clair, Agr.	*Oxbow*	17 Margin Street
Kagan, Edith, Arts	*Bangor*	Balentine Hall
Kane, John Frederick, Me.	*Brewer*	28 Blake Street, Brewer
Kates, Robert, Arts	*Roxbury, Mass.*	36 Main Street

Keddrel, Arlie Warren, Agr.	*Patten*	Stillwater Avenue, Stillwater
Keirstead, Clifford Harmon, Agr.Eng.	*Mapleton*	88 Park Street
Keith, Austin Rodney, Arts	*Bangor*	10 Boynton Street, Bangor
Kent, Edward Howard, Agr.	*Bangor*	16 Sixth Street, Bangor
Kerr, Theodore Alton, Agr.	*Waterville*	204 H. H. Hall
Keylor, Frederick William, Ch.Eng.	*Bangor*	231 West Broadway, Bangor
Kilgore, Marion Gertrude, Arts	*Rumford*	Balentine Hall
Kilpatrick, Carleton Everett, Ch.	*Portland*	110 H. H. Hall
Kimball, Arnold Raleigh, Me.	*Briarcliff Manor, N. Y.*	209 Oak Hall
Kimball, Jacqueline Idada, He.	*Freeport*	Colvin Hall
King, Elizabeth Thompson, Arts	*Long Beach, L. I., N. Y.*	Colvin Hall
King, Emile Joseph, Agr.	*Orono*	39A Mill Street
King, Joseph Henry, Me.	*Gardner, Mass.*	33 Bennoch Street
Kingsbury, Earl Randall, Me.	*Bangor*	9 Norway Road, Bangor
Kiszonak, Edward Louis, Arts	*Lisbon Falls*	210 H. H. Hall
Klein, Frederic William, Me.	*Newton Centre, Mass.*	311 H. H. Hall
Kloss, Charles Edward, Me.	*Bucksport*	412 Oak Hall
Knapp, Carroll Lyndell, Jr., Ch.	*Kingfield*	311 H. H. Hall
Knight, Marie Lura, He.	*Freedom*	Balentine Hall
Knox, Allan, Ch.Eng.	*Augusta*	210 Oak Hall
Kreh, Eleanor Barbara, Arts	*Union, N. J.*	Balentine Hall
Lamoreau, Dolly Jean, He.	*Easton*	Balentine Hall
Larrabee, Benjamin True, Jr., Arts	*Berlin, N. H.*	306 Oak Hall
Larsen, Albert Martin, Jr., Ce.	*North Attleboro, Mass.*	302 H. H. Hall
Lawrence, John Maynard, Jr., Fy.	*Solon*	33 Pond Street
Leavitt, George Robert, Me.	*Bangor*	53 Wiley Street, Bangor
Leavitt, Mavis Carolyn, He.	*Turner*	The Elms
Lebovitz, Jack Robert, Ch.Eng.	*Portland*	103 Oak Hall
Ledien, Julie Edna, Arts	*Blue Hill*	Balentine Hall
Leh, Eleanor Hall, Arts	*Topsham*	Colvin Hall
Leland, Francis Gardner, Jr., Agr.Eng.	*Melrose, Mass.*	202 H. H. Hall
Leonard, Priscilla Angela, Arts	*Cape Elizabeth*	Colvin Hall
Lepoff, Jack Hershel, Ch.Eng.	*Portland*	309 H. H. Hall
Levenson, Arnold Selwyn, Arts	*Dorchester, Mass.*	109 H. H. Hall

Lewis, George Hamilton, Arts	*Bar Harbor*	411 Oak Hall
Lewis, Richard Samuel, Ce.	*Springfield*	204 H. H. Hall
Leydon, Thomas William, Jr., Fy.	*Waban, Mass.*	212 Oak Hall
Libbey, Waldo McClure, Ch.Eng.	*Bangor*	135 West Broadway, Bangor
Libby, Melvin Ernest, Eng.	*Cumberland Mills*	303 H. H. Hall
Lidstone, Richard Burton, Fy.	*West Hartford, Conn.*	26 North Hall
Lobozzo, George Vincent, Me.	*Auburn*	211 H. H. Hall
Lombard, Rebecca Averill, Arts	*Springfield*	The Elms
Lougee, George Ellsworth, Fy.	*Bangor*	699 Broadway, Bangor
Lown, Harold, Me.	*Lewiston*	109 H. H. Hall
Lurvey, Helen Patricia, Arts	*South Brewer*	South Brewer
Luther, Eldon Harmon, Me.	*Hartford, Conn.*	202 Oak Hall
McCobb, Joseph Leigh, Arts	*Auburn*	410 H. H. Hall
MacDonald, Ellen Katherine, Arts	*Vassalboro*	Balentine Hall
MacDonald, Vinetta Estelle, Arts	*Eddington*	Eddington
MacGown, Philip Talmadge, Eng.	*Buckfield*	201 H. H. Hall
McIntire, Clarence Edwin, Arts	*Portland*	405 H. H. Hall
MacKenzie, Robert Earl, Arts	*Orono*	81 Main Street
McLaughlin, Aubrey Alton, Agr.	*Island Falls*	148 Main Street
McLaughlin, Carolyn Jean, Arts	*Medway*	Balentine Hall
McLaughlin, Earl Eldon, Ch.Eng.	*Skowhegan*	401 H. H. Hall
McLean, George Edward, Ch.Eng.	*Bangor*	30 Elm Street, Bangor
MacLeod, Kenneth Parker, Arts	*South Brewer*	511 South Main Street, South Brewer
MacNeil, Phyllis, Arts	*Swampscott, Mass.*	Balentine Hall
McNeilly, Alvin Small, Pa.	*Brookline, Mass.*	303 Oak Hall
Macri, Frank John, Arts	*Portland*	304 H. H. Hall
Madigan, James Cottril, Agr.	*Houlton*	30 North Hall
Mahaney, Sterling Arthur, Agr.	*Fort Kent*	College Road
Mahar, James Eugene, Me.	*Norwood, Mass.*	25 Grove Street
Manwell, Joan Winifred, He.	*Winthrop*	20 Forest Avenue
Marston, Wendell Stuart, Fy.	*Cochituate, Mass.*	14 North Hall
Mason, Webber James, Arts	*Dexter*	University Cabin
Mathews, John Henry, Ch.Eng.	*Augusta*	208 Oak Hall
Medina, Muriel Evelyn, He.	*Waltham, Mass.*	Colvin Hall

Meloon, Merton Stacy, Agr.	*Kezar Falls*	305 Oak Hall
Merrill, James Hersey, Ch.Eng.	*East Sumner*	395 College Road
Meserve, Stanley Frank, Ce.	*Kennebunkport*	104 H. H. Hall
Miller, Mary Layburn, He.	*Fairfield, Conn.*	Colvin Hall
Miller, Philip DeLand, Ch.Eng.	*Portland*	310 Oak Hall
Mitchell, Barbara Ruth, He.	*Bar Harbor*	Colvin Hall
Mooers, Harold Brian, Ee.	*Bangor*	90 Wiley Street, Bangor
Morgan, John Edward, Arts	*East Millinocket*	100 North Main Street
Morong, William Henry, Jr., Ch.Eng.	*Madison*	201 H. H. Hall
Morrill, Richard Arthur, Me.	*West Farmington*	College Road
Morrison, Everett Oscar, Ch.Eng.	*Sanford*	11 North Hall
Moulton, Arthur Henry, Me.	*Portland*	210 H. H. Hall
Moulton, James Francis, Ch.Eng.	*Rangeley*	408 Oak Hall
Mountain, William Harold, Arts	*Dexter*	304 Oak Hall
Mulroy, Vincent James, Fy.	*Portland*	304 H. H. Hall
Murch, Albert Kenneth, Agr.Eng.	*South Casco*	28 North Hall
Nadeau, Joseph Henry, Ch.Eng.	*Fort Kent*	College Road
Neal, Frank Ray, Agr.	*Portland*	112 Oak Hall
Nelson, Elizabeth Anna, Arts	*St. Albans*	87 Main Street
Nelson, Norman Thomas, Eng.	*Old Town*	Indian Island, Old Town
Newlands, Lester William, Agr.	*Southbridge, Mass.*	410 H. H. Hall
Noyes, Virginia Pauline, Arts	*Patten*	Colvin Hall
Nute, Warren Wilkins, Jr., Me.	*New Bedford, Mass.*	104 H. H. Hall
Nutter, Robert Webster, Agr.	*Sanford*	207 Oak Hall
Obear, George Hanson, Ce.	*New York, N. Y.*	312 Oak Hall
O'Neil, Joseph Raymond, Ch.Eng.	*Portland*	86 Mill Street
Packard, Richard Malcolm, Arts	*Bath*	University Cabin
Palmer, Richard Rockwood, Jr., Me.	*Lisbon Falls*	109 Oak Hall
Parker, Phillip Sheridan, By.	*Addison*	51 North Main Street
Parker, Robert Emmett, Fy.	*Peru, N. Y.*	25 North Hall
Parks, Jane Irene, He.	*Hempstead, L. I., N. Y.*	Balentine Hall
Parmenter, Thomas Elmer, Ch.Eng.	*Portland*	209 Oak Hall
Pearson, Linwood Farnum, Fy.	*Corinna*	408 Oak Hall
Pease, Harlan Lucien, Ch.Eng.	*Bar Mills*	Stillwater Avenue, Stillwater

Perry, Ralph Arthur, Ch.Eng.	*Bangor*	382 Lincoln Street, Bangor
Peters, Mattie Ida, Arts	*Dennysville*	The Elms
Petterson, Robert Carlyle, Ch.	*Bangor*	31 Kineo Street, Bangor
Phelps, Robert Edward, Arts	*Readfield*	25 Grove Street
Phillips, Edward Hoag, Me.	*Melrose, Mass.*	402 Oak Hall
Phillips, Hughene Ruth, Arts	*East Holden*	217 State Street, Bangor
Pierce, Elsie Mae, Arts	*Damariscotta*	Balentine Hall
Pierce, James Everett, Arts	*Old Town*	34 Sixth Street, Old Town
Pike, Esther Marguerite, He.	*Waterford*	Colvin Hall
Pikelis, Peter Sylvester, Ee.	*Millinocket*	407 H. H. Hall
Pillsbury, Dorothy Priscilla, He.	*Limington*	The Elms
Piper, Elizabeth Ann, Arts	*Damariscotta*	Balentine Hall
Plummer, Philip John, Me.	*Bangor*	94 Royal Road, Bangor
Poor, William Osgood, Ee.	*Belfast*	212 H. H. Hall
Powell, Ralph Carleton, Arts	*Orono*	69 Forest Avenue
Powers, Thomas Francis Vincent, Arts	*Lewiston*	308 Oak Hall
Presnell, Donald Franklyn, Arts	*Portland*	13 North Hall
Pressey, Eva Frances, He.	*Bangor*	487 Union Street, Bangor
Pride, Fleetwood, Jr., Ee.	*Abbot Village*	211 H. H. Hall
Pullman, Avril Lawrence, Ee.	*Bangor*	109 H. H. Hall
Pulsifer, Herbert Gerald, Arts	*Clinton*	88 Park Street
Putnam, Norman Armstead, Ee.	*Reading, Mass.*	111 H. H. Hall
Quinn, Harry Barkman, Jr., Ch.Eng.	*Ft. William McKinley, Rizel, P. I.*	205 Oak Hall
Rackliffe, Fred Alden, Ch.Eng.	*Belfast*	212 H. H. Hall
Randall, Esther, He.	*Lewiston*	Colvin Hall
Raynor, Wilfred Louis, Agr.	*Warwick, N. Y.*	12 North Hall
Redmond, William Lawrence, Arts	*Bangor*	10 March Street, Bangor
Reed, Walter Manley, Agr.	*Fort Fairfield*	306 H. H. Hall
Reid, James Gilmour, Arts	*Bangor*	96 Highland Street, Bangor
Reynolds, Albert Field, Arts	*Bangor*	141 Ohio Street, Bangor
Reynolds, Fred Tripp, Agr.	*South Portland*	26 North Hall
Rich, Elton Mylan, Arts	*Pittsfield*	56 Park Street
Rich, Ralph Durgin, Jr., Arts	*Portland*	211 H. H. Hall
Richardson, Carroll Barton, Agr.	*Oakland*	53 Bennoch Street

Meloon, Merton Stacy, Agr.	*Kezar Falls*	305 Oak Hall
Merrill, James Hersey, Ch.Eng.	*East Sumner*	395 College Road
Meserve, Stanley Frank, Ce.	*Kennebunkport*	104 H. H. Hall
Miller, Mary Layburn, He.	*Fairfield, Conn.*	Colvin Hall
Miller, Philip DeLand, Ch.Eng.	*Portland*	310 Oak Hall
Mitchell, Barbara Ruth, He.	*Bar Harbor*	Colvin Hall
Mooers, Harold Brian, Ee.	*Bangor*	90 Wiley Street, Bangor
Morgan, John Edward, Arts	*East Millinocket*	100 North Main Street
Morong, William Henry, Jr., Ch.Eng.	*Madison*	201 H. H. Hall
Morrill, Richard Arthur, Me.	*West Farmington*	College Road
Morrison, Everett Oscar, Ch.Eng.	*Sanford*	11 North Hall
Moulton, Arthur Henry, Me.	*Portland*	210 H. H. Hall
Moulton, James Francis, Ch.Eng.	*Rangeley*	408 Oak Hall
Mountain, William Harold, Arts	*Dexter*	304 Oak Hall
Mulroy, Vincent James, Fy.	*Portland*	304 H. H. Hall
Murch, Albert Kenneth, Agr.Eng.	*South Casco*	28 North Hall
Nadeau, Joseph Henry, Ch.Eng.	*Fort Kent*	College Road
Neal, Frank Ray, Agr.	*Portland*	112 Oak Hall
Nelson, Elizabeth Anna, Arts	*St. Albans*	87 Main Street
Nelson, Norman Thomas, Eng.	*Old Town*	Indian Island, Old Town
Newlands, Lester William, Agr.	*Southbridge, Mass.*	410 H. H. Hall
Noyes, Virginia Pauline, Arts	*Patten*	Colvin Hall
Nute, Warren Wilkins, Jr., Me.	*New Bedford, Mass.*	104 H. H. Hall
Nutter, Robert Webster, Agr.	*Sanford*	207 Oak Hall
Obear, George Hanson, Ce.	*New York, N. Y.*	312 Oak Hall
O'Neil, Joseph Raymond, Ch.Eng.	*Portland*	86 Mill Street
Packard, Richard Malcolm, Arts	*Bath*	University Cabin
Palmer, Richard Rockwood, Jr., Me.	*Lisbon Falls*	109 Oak Hall
Parker, Phillip Sheridan, By.	*Addison*	51 North Main Street
Parker, Robert Emmett, Fy.	*Peru, N. Y.*	25 North Hall
Parks, Jane Irene, He.	*Hempstead, L. I., N. Y.*	Balentine Hall
Parmenter, Thomas Elmer, Ch.Eng.	*Portland*	209 Oak Hall
Pearson, Linwood Farnum, Fy.	*Corinna*	408 Oak Hall
Pease, Harlan Lucien, Ch.Eng.	*Bar Mills*	Stillwater Avenue, Stillwater

Perry, Ralph Arthur, Ch.Eng.	*Bangor*	382 Lincoln Street, Bangor
Peters, Mattie Ida, Arts	*Dennysville*	The Elms
Petterson, Robert Carlyle, Ch.	*Bangor*	31 Kineo Street, Bangor
Phelps, Robert Edward, Arts	*Readfield*	25 Grove Street
Phillips, Edward Hoag, Me.	*Melrose, Mass.*	402 Oak Hall
Phillips, Hughene Ruth, Arts	*East Holden*	217 State Street, Bangor
Pierce, Elsie Mae, Arts	*Damariscotta*	Balentine Hall
Pierce, James Everett, Arts	*Old Town*	34 Sixth Street, Old Town
Pike, Esther Marguerite, He.	*Waterford*	Colvin Hall
Pikelis, Peter Sylvester, Ee.	*Millinocket*	407 H. H. Hall
Pillsbury, Dorothy Priscilla, He.	*Limington*	The Elms
Piper, Elizabeth Ann, Arts	*Damariscotta*	Balentine Hall
Plummer, Philip John, Me.	*Bangor*	94 Royal Road, Bangor
Poor, William Osgood, Ee.	*Belfast*	212 H. H. Hall
Powell, Ralph Carleton, Arts	*Orono*	69 Forest Avenue
Powers, Thomas Francis Vincent, Arts	*Lewiston*	308 Oak Hall
Presnell, Donald Franklyn, Arts	*Portland*	13 North Hall
Pressey, Eva Frances, He.	*Bangor*	487 Union Street, Bangor
Pride, Fleetwood, Jr., Ee.	*Abbot Village*	211 H. H. Hall
Pullman, Avril Lawrence, Ee.	*Bangor*	109 H. H. Hall
Pulsifer, Herbert Gerald, Arts	*Clinton*	88 Park Street
Putnam, Norman Armstead, Ee.	*Reading, Mass.*	111 H. H. Hall
Quinn, Harry Barkman, Jr., Ch.Eng.	*Ft. William McKinley, Rizel, P. I.*	205 Oak Hall
Rackliffe, Fred Alden, Ch.Eng.	*Belfast*	212 H. H. Hall
Randall, Esther, He.	*Lewiston*	Colvin Hall
Raynor, Wilfred Louis, Agr.	*Warwick, N. Y.*	12 North Hall
Redmond, William Lawrence, Arts	*Bangor*	10 March Street, Bangor
Reed, Walter Manley, Agr.	*Fort Fairfield*	306 H. H. Hall
Reid, James Gilmour, Arts	*Bangor*	96 Highland Street, Bangor
Reynolds, Albert Field, Arts	*Bangor*	141 Ohio Street, Bangor
Reynolds, Fred Tripp, Agr.	*South Portland*	26 North Hall
Rich, Elton Mylan, Arts	*Pittsfield*	56 Park Street
Rich, Ralph Durgin, Jr., Arts	*Portland*	211 H. H. Hall
Richardson, Carroll Barton, Agr.	*Oakland*	53 Bennoch Street

Richardson, Harold Porter, Jr., Me.	*Waban, Mass.*	211 H. H. Hall
Ring, Anne Barbara, Arts	*Lockes Mills*	Colvin Hall
Robbins, Julia Hedwige, He.	*Dover-Foxcroft*	Colvin Hall
Robinson, Christine Elizabeth, Arts	*Oxford*	Colvin Hall
Roley, Ray DeWitt, Jr., Ge.	*Newton Centre, Mass.*	312 H. H. Hall
Rollins, Norman Whittier, Agr.	*Farmington*	College Road
Rowe, Irene Louise, Arts	*Bangor*	Union Street, R.F.D. #3, Bangor
Rowley, Charles Cecil, Pa.	*Summit, N. J.*	33 Bennoch Street
Rubinoff, Marcia, Arts	*Auburn*	Colvin Hall
Rudman, Stanley Hillel, Arts	*Bangor*	132 Grant Sreet, Bangor
Russell, Carrie Adelaide, Arts	*Rangeley*	Balentine Hall
Ryan, Sally Jean, Arts	*Woolwich*	Balentine Hall
Sanders, Crandall Arthur, Ch.Eng.	*Yarmouth*	103 H. H. Hall
Sanford, Alpheus, Arts	*Brunswick*	305 H. H. Hall
Savage, John Lewis, Eng.	*Brewer*	110 H. H. Hall
Sawin, Dwight Holden, Jr., Agr.	*Harrison*	210 H. H. Hall
Sawyer, Henry Edward, Me.	*Greenville*	101 H. H. Hall
Schoppe, John Cushman, Me.	*Auburn*	101 Oak Hall
Scribner, Barbara Burden, Arts	*Bangor*	Colvin Hall
Sedgeley, Lawrence Richard, Ch.Eng.	*Oakland*	101 H. H. Hall
Seely, Marjorie Edith, He.	*Patten*	Balentine Hall
Sewall, Nathaniel Woodsum, Eng.	*Livermore Falls*	College Road
Sewall, William Dunning, Me.	*Bath*	102 H. H. Hall
Shapero, Ruth, He.	*Bangor*	114 Essex Street, Bangor
Shaughnessy, William Arthur, Arts	*Bangor*	15 Wing Street, Bangor
Sheehy, Frances Ann, Arts	*Lewiston*	Colvin Hall
Silver, Lillian Lena, Arts	*Bangor*	R.F.D. #7, Bangor
Simpson, Jean Olive, Arts	*Eastport*	Balentine Hall
Simpson, Richard Walter, Ch.Eng.	*Dixmont*	22 North Hall
Sims, Edward Wesley, Arts	*Moosup, Conn.*	20 North Hall
Sklar, Gertrude, Arts	*Old Town*	136 North Main Street, Old Town
Sleight, Earland Kingsley, Ch.	*Lubec*	411 H. H. Hall
Small, Eleanor Louise, He.	*Dexter*	Balentine Hall
Small, Harlan Forrest, Agr.	*Milbridge*	22 North Hall
Smith, Floyd Flynt, Me.	*Augusta*	208 Oak Hall
Smith, George Maynard, Agr.	*Ellsworth*	301 H. H. Hall

Smith, Mahlon Dorrance, Ch.Eng.	*Yarmouth*	108 Oak Hall
Smith, Robert Augur, Fy.	*Branford, Conn.*	209 H. H. Hall
Smith, Robert Dale, Arts	*Springfield*	310 H. H. Hall
Smith, Sherrold Leland, Agr.	*Salisbury Cove*	104 Oak Hall
Smith, Virginia Fern, Arts	*Anson*	The Elms
Snow, Sylvia Lula, Arts	*Blue Hill*	The Elms
Solomon, Allen Heirsh, Arts	*Lowell, Mass.*	109 H. H. Hall
Soule, Phyllis Ellen, He.	*Charleston*	Balentine Hall
Spaulding, Layton Eugene, Me.	*Waterville*	410 H. H. Hall
Spearin, Walter Eugene, Ch.	*Benton Station*	206 Oak Hall
Spector, Shirley, Arts	*Portland*	Balentine Hall
Speed, Robert Edward, Arts	*Millinocket*	110 Oak Hall
Spencer, Frank Whittier, Jr., Me.	*Orono*	7 Kell Street
Spiller, Philip Davis, Ce.	*Westbrook*	406 H. H. Hall
Squires, Frank Esmond, Agr.	*Medford, Mass.*	21 North Hall
Staff, Gordon Robert, Ee.	*Richmond Hill, N. Y.*	7 Kell Street
Stanley, John Leighton, Jr., Fy.	*Milbridge*	University Cabin
Stanton, James Easton, III, Arts	*South Dartmouth, Mass.*	72 Main Street
Stearns, John Whitaker, Fy.	*Newtonville, Mass.*	402 H. H. Hall
Steinmetz, John Ferdinand, Arts	*Orono*	36 College Road
Stevens, Everett Robert, Agr.Eng.	*Fryeburg*	206 H. H. Hall
Stevens, Sumner Worth, Ch.	*Newton, Mass.*	212 H. H. Hall
Stickney, Charles Edwin, Jr., Arts	*Portland*	310 Oak Hall
Stimpson, Clayton Sheldon, Agr.	*Stockton Springs*	Stockton Springs
Stocking, Charles Parsons, Jr., Fy.	*Williamstown, Mass.*	409 H. H. Hall
Stone, Donald Leroy, Me.	*Detroit*	56 Park Street
Storer, Daniel Phinney, Arts	*Orono*	32 College Road
Storer, Philip Whitmore, Agr.	*Newtonville, Mass.*	303 H. H. Hall
Stotler, Thomas Francis, Fy.	*Great Barrington, Mass.*	7 Kell Street
Sullivan, Cecilia Genevieve, Arts	*South Brewer*	43 Pendleton Street, South Brewer
Sullivan, Charles Edward, Ce.	*Bangor*	391 Main Street, Bangor
Suminsby, John Edward, Eng.Ps.	*Northeast Harbor*	201 Oak Hall
Sutton, Joseph Stickney, Fy.	*West Roxbury, Mass.*	212 Oak Hall

Sweet, Miriam Amelia, He.	*East Holden*	Balentine Hall
Sweetser, Philip Sturdivant, Agr.	*Cumberland Center*	202 Oak Hall
Tabenken, Gerald Marcus, Arts	*Bangor*	207 Parkview Avenue, Bangor
Tainter, Richard Walker, Ch.Eng.	*Auburn*	310 H. H. Hall
Talbot, Thomas Joseph, Agr.	*Woodland*	404 H. H. Hall
Taylor, Alan Woodman, Ch.Eng.	*Westbrook*	404 H. H. Hall
Taylor, Henry Joseph, Me.	*Bangor*	60 Fruit Street, Bangor
Tedford, Hollis Clinton, Jr., Ce.	*Island Falls*	51 Park Street
Tew, John Charles, Jr., Fy.	*Westfield, N. J.*	111 H. H. Hall
Theriault, John Philip, Ce.	*Old Town*	197 Center Street, Old Town
Thibault, Hector Arthur, Ee.	*Skowhegan*	91 Forest Avenue
Thomas, David, Agr.	*Portland*	204 H. H. Hall
Thomas, Harry Sanborn, Jr., Ee.	*Farmington*	103 H. H. Hall
Thompson, George, Jr., Agr.	*Beverly, Mass.*	303 H. H. Hall
Thorpe, Arletta Nellie, Arts	*Christmas Cove*	Colvin Hall
Thorpe, Lawrence Gilman, Agr.	*Bangor*	108 Fern Street, Bangor
Thurlow, Roger William, Agr.	*Lee*	88 Park Street
Thurston, Stewart, Arts	*Corinna*	308 Oak Hall
Tibbetts, Wilbur Elwin, Eng.	*Hallowell*	23 North Hall
Tillson, Thomas Rufus, Eng.	*Dexter*	102 H. H. Hall
Titcomb, Elbridge Chessman, Ee.	*Portland*	University Cabin
Tolford, Rhoda Winifred, He.	*Portland*	Colvin Hall
Treworgy, Florence Mary, He.	*Blue Hill*	Balentine Hall
Troland, Ruth Eleanor, Arts	*Malden, Mass.*	Colvin Hall
True, Barbara Elizabeth, Arts	*Denmark*	The Elms
Tschamler, John Donald, Ch.Eng.	*Augusta*	101 Oak Hall
Turner, Philip Beaumont, Agr.	*Mapleton*	88 Park Street
Tyler, Joseph Alexander, Arts	*West Lubec*	412 H. H. Hall
Walker, George Brewster, Agr.	*Newton Centre, Mass.*	203 H. H. Hall
Walker, Lois Marion, He.	*Skowhegan*	Balentine Hall
Walker, Norman, Arts	*West Kennebunk*	24 North Hall
Walker, Ralph William, Agr.	*Presque Isle*	209 H. H. Hall
Wall, George Joseph, Jr., Agr.	*West Roxbury, Mass.*	310 H. H. Hall
Wallace, Francis Irving, Arts	*Hopedale, Mass.*	15 North Hall
Ward, James Frederick, Eng.	*Houlton*	30 North Hall

Washburn, Frederick John, Jr., Fy.	*Monmouth*	12½ Pleasant Street
Waterhouse, Dorothy Perkins, Arts	*Kennebunkport*	Balentine Hall
Waterman, Ida May, Arts	*Old Town*	48 Jefferson Street, Old Town
Waters, William Eugene, Fy.	*Englewood, N. J.*	401 H. H. Hall
Webber, George William, Jr., Arts	*Auburn*	7 Kell Street
Webber, Robert Palmer, Arts	*Hallowell*	307 Oak Hall
Webster, John Gordon, Ch.	*West Cornwall, Conn.*	206 H. H. Hall
Welch, Paul Richard, Ee.	*Bangor*	216 Forest Avenue, Bangor
Wertheim, Clarke Harris, Arts	*Needham, Mass.*	207 Oak Hall
Wescott, John Putnam, Agr.Eng.	*Patten*	59 Park Street
White, Earl Arthur, Eng.	*Old Town*	263 Center Sreet, Old Town
White, Leon George, Jr., Ch.Eng.	*Bangor*	84 Boutelle Road, Bangor
Whitney, Everett Franklin, Me.	*Lincoln Center*	14 Kell Street
Whitney, Florice Elaine, Arts	*Portland*	Balentine Hall
Whitney, Harrison Bartlett, Ee.	*Portland*	36 Grove Street
Whitney, June Estelle, Arts	*Skowhegan*	Colvin Hall
Whitney, Willard Hall, Arts	*Bangor*	29 Grove Street, Bangor
Whitten, John Francis, Agr.	*Fort Kent*	301 H. H. Hall
Wight, Hall Nelson, Me.	*Madison*	University Cabin
Willett, Charlotte Teresa, He.	*Orono*	235 Main Street
Williams, Mabel Elizabeth, He.	*Boothbay Harbor*	The Elms
Williamson, Earl Sherman, Jr., Ch.Eng.	*Bethel*	308 Oak Hall
Williamson, Edward Glover, Jr., Arts	*Rockland*	202 H. H. Hall
Wilson, Albert Holman, Fy.	*Portland*	56 Park Street
Wilson, Marjorie Elinor, Eng.	*Belfast*	The Elms
Winchester, David Burton, Fy.	*Allston, Mass.*	311 H. H. Hall
Wing, Herbert Edwin, Arts	*Kingfield*	208 H. H. Hall
Witham, Priscilla Dora, He.	*Salisbury Cove*	24 Pierce Street
Wooster, Mildred Ethelyn, He.	*Old Town*	258 Center Street, Old Town
Young, Hilda Ruth, Arts	*North Brooksville*	Colvin Hall
Zink, Robert Miller, Fy.	*Wilmington, Del.*	303 Oak Hall

SPECIALS

Adams, Kenneth Hooper, Ee.	*Bucksport*	Bucksport
Backer, Grace Weil, He.	*Brooklyn, N. Y.*	60 Park Street

Blake, Donald Colton, Arts	*Bangor*	259 Center Street, Bangor
Boardway, Walker Fred, Ch.	*Stillwater*	Stillwater
Burpee, Frederick Todd, Agr.	*Orono*	Bennoch Road
Carlisle, Mary Sherman, Arts	*Bangor*	Estabrooke Hall, North
Cowie, Douglas Brann, Eng.	*Rockville Centre, N. Y.*	A T Ω House
DeCourcy, Dayson Daniel, Arts	*Bangor*	11 Prentiss Street, Bangor
Hamilton, Chester Cloud, Pa.	*Scarboro*	R.F..D #7, Bangor
Hodsdon, Richard Spalding, Eng.	*Gorham*	108 Oak Hall
Hooper, Lawrence Richards, Sh.	*Greenville*	Bangor Theological Seminary
McGraw, Richard Bernard, Eng.	*Portland*	Θ X House
Morrison, William James, Me.	*Cape Cottage*	K Σ House
Rogers, Madolin Charlotte, He.	*Houlton*	Balentine Hall
Ruhlin, Donald Bruce, Arts	*Sangerville*	268 State Street, Bangor
Sawyer, Haven, Jr., Me.	*Bangor*	Σ A E House
Seabury, Edwin Morey, Eng.Ps.	*Orono*	27 Middle Street
Simpson, Samuel Palmer, Arts	*Kennebunk*	7 Kell Street
Small, Bernice Mae, Arts	*Old Town*	216 Stillwater Avenue, Old Town
Wescott, Jane, Arts	*Old Town*	314 Stillwater Avenue, Old Town
West, Danforth Emerson, Arts	*Bangor*	85 Montgomery Street, Bangor
Willey, Baxter Leone, Ch.Eng.	*Old Town*	241 Center Street, Old Town
Winter, Alan John Day, Eng.	*Kingswood, Surrey, England*	491 Ohio Street, Bangor
Yates, Clifford Thomas, Pa.	*Melbourne, Victoria, Australia*	Φ M Δ House

TWO-YEAR COURSE IN AGRICULTURE

First Year

Bailey, Clarence Junior	*Andover*	25 Grove Street
Baird, Philip Weston	*Hartland*	53 Bennoch Street
Blaisdell, Leon Harvey, Jr.	*Portland*	408 H. H. Hall
Buzzell, Donald Warren	*Fryeburg*	28 North Hall

Casey, Donald Arthur	*Bucksport*	24 Bagley Avenue, Bucksport
Chandler, Daniel Prescott	*Farmington*	College Road
Cronkite, Laurence Samuel	*Fort Fairfield*	College Road
Cummings, Ralph Lincoln	*Dixfield*	College Road
Hall, Donald Martin	*Dover-Foxcroft*	53 Bennoch Street
Hitchings, Harland Samuel	*Skowhegan*	178 Main Street
Lamoreau, Herman Clifford	*Mapleton*	25 Grove Street
Long, Wendell Morgan	*East Blue Hill*	25 Grove Street
MacCabe, Quentin Herbert	*Monmouth*	25 Grove Street
Maddock, Gerald Bryan	*Northeast Harbor*	16 North Hall
Mitchell, Richard Wescott	*South Portland*	104 H. H. Hall
Riley, Willard Edwin	*Lisbon Falls*	10 Gilbert Street
Robinson, George Arthur	*Cumberland Center*	26 Grove Street
Stimson, Joseph Williams, Jr.	*Cumberland Center*	25 Grove Street
White, James Edward	*Bangor*	91 Boutelle Road, Bangor
Wilson, Hubbard	*Gorham*	111 Oak Hall

Second Year

Baker, Philip George	*Orono*	58 Pierce Street
Boudreau, Edmund Herbert	*Bangor*	Farm Boarding House
Choate, Edward Carlile	*Portland*	26 Peters Street
Cox, Edward Glidden, Jr.	*Brooks*	7 Kell Street
Emery, Edwin Black	*Limington*	Α Τ Ω House
Ferry, Harold Eugene	*Newport*	25 Grove Street
Gay, Clayton Heber	*Cherryfield*	25 Grove Street
Jellison, Gerald Earle	*Bangor*	279 Essex Street, Bangor
Kinney, Harold Arthur	*Easton*	Φ Η Κ House
Lancaster, Horace Smith	*Bowdoinham*	Park Street
Philbrick, Charles Blaisdell	*Corinna*	College Road
Powers, Roland Linwood	*Medway*	25 Grove Street
Saunders, Arthur Snow	*Blue Hill Falls*	Kell Street
Thomas, Walter Clyde	*Westfield, N. J.*	Park Street
Young, Philip Stanley	*Orono*	25 Grove Street

SPRING SEMESTER, 1941

New Registrations

Graduate Students

Fitzherbert, Eleanor Margaret, B.A., Eh. Maine, 1928	*Orono*	2 Spencer Lane
Haslop, Rebecca Elaine Emily, B.A., Ch. Linfield, 1940	*Portland, Ore.*	6 North Main Street
Prescott, Herbert Leroy, A.B., Ed. Bowdoin, 1930	*Bangor*	68 Bowdoin Street, Bangor

Seniors

Clark, Eva Adeline, He.	*Orono*	Home Management House
Hamilton, William Douglas Greene, Fy.	*Washington, D. C.*	Φ H K House
Hoctor, John Michael, Ed.	*Old Orchard Beach*	Σ N House
Philbrook, Helen Marion, He.	*Shelburne, N. H.*	Estabrooke Hall, North
Plummer, Lawrence Crosby, Ed.	*Damariscotta Mills*	25 Grove Street
Ross, Edward Ernest, Fy.	*Orono*	56 Park Street
Willey, James Frederick, Fy.	*St. Johnsbury, Vt.*	Θ X House

Juniors

McEdward, James Angus, Me.	*Union*	19 First Street, Bangor
Pratt, Muriel Elizabeth, He.	*Oxford*	Estabrooke Hall, South
Reitz, John Addison, Ce.	*Waltham, Mass.*	Σ X House
Ross, Annie Estella, He.	*West Lubec*	Estabrooke Hall, North
Syphers, Ansel James, Ed.	*Mars Hill*	33 Bennoch Street

Sophomores

Petterson, Leonard Martin, Arts	*Deep River, Conn.*	A T Ω House
Richardson, Leighton Russell, Me.	*Saco*	26 Peters Street

Freshmen

Merrill, Charles Reed, Ce.	*Madison*	51 Highland Street, Bangor

Specials

Beasom, Ruth Herrick, Agr.	*Orono*	100 North Main Street
Hawthorne, Kingsley Walter, Arts	*Kenduskeag*	Kenduskeag
Newell, Gordon Glen, Arts	*Howland*	Howland
Orbeton, Maurice Cleveland, Jr., Eng.	*Bangor*	140 Grant Street, Bangor
Quijano, Gregorio Ridon, Arts	*Bangor*	16 Post Office Square, Bangor

Two-Year Course in Agriculture

First Year

Daigle, Bertrand Willie	*Fort Kent*	53 Bennoch Street

SUMMER SESSION, 1940

Students Registered for Graduate Credit

Allen, Rena Maria, B.S., He. Ed. Maine, 1936	*Bangor*
Andrews, Marian Bertha, B.A., Ed. Aurora, 1936	*Winthrop*
Andrews, Ernest Francis, Jr., A.B., Sh. Bowdoin, 1940	*Bangor*
Andrews, Roland Butterfield, B.S., Ed. Colby, 1928	*Lee*
Ashby, Hope Elizabeth, B.S., He. Ed. Maine, 1937	*Caribou*
Avery, Laurence Eugene, B.A., Hy. Maine, 1931	*Bangor*
Barons, Gordon Irwin, B.S., Ch. New York University, 1934	*Patchogue, N. Y.*
Bartlett, Frances Estella, B.A., Ed. Maine, 1934	*Orono*

Benner, Helen Frances, B.A., Eh. Maine, 1928	*Bangor*
Birse, Jessie Cecelia, B.A., Eh. Hunter, 1938	*Huntington, L. I., N. Y.*
Brackett, Madalene, B.A., Ms. Maine, 1925	*Boston, Mass.*
Bradstreet, Ernest Raymond, B.A., Ed. Maine, 1931	*Bangor*
Bragg, Meredith Gove, B.S. in Ed., Eh. Bridgewater State Teachers ,1939	*South Weymouth, Mass.*
Broadway, Belva Lucile, B.S., Py. Greenville College for Women, 1931	*Sumter, S. C.*
Brocato, Samuel Anthony, B.S. in Ed., Ed. Rutgers, 1940	*Machias*
Buehrer, Bernadine, B.A., Eh. Texas, 1922	*Orono*
Brown, Eileen Elizabeth, B.A., Ed. Maine, 1936	*Brewer*
Buerger, Alice Constance, A.B., M.A., Ed. Cornell, 1925; Middlebury, 1934	*Eggertsville, N. Y.*
Bunker, Gladys Mae, A.B., Ed. Colby, 1928	*Bangor*
Burgess, Wilma Marion, B.R.E., Ed. Boston University, 1924	*Dover-Foxcroft*
Burns, Flora Malissa, A.B., Py. Erskine College, 1917	*Richburg, S. C.*
Burrill, Leland Charles, A.B., Ed. Colby, 1939	*Fairfield*
Cairns, Martha Lillian, B.A., Eh. Dubuque, 1938	*Huntington, L. I., N. Y.*
Canon, Bertha Violet, B.A., Lt. Smith, 1912	*Middlefield, Conn.*
Capone, Elsie Constance, B.S., Ed. Salem State Teachers, 1940	*Somerville, Mass.*
Carey, Timothy John, Jr., B.A., Ed. Delaware, 1936	*Ocean City, N. J.*
Carson, Harold Eugene, B.S., Ed. Colby, 1928	*Hartland*
Christie, Lindon Edwin, B.S., Ed. Colby, 1930	*Monson*
Clancy, Eleanor Lane, B.S., Ed.	*Guantánamo, Cuba*

Illinois, 1924	
Colby, Barbara, B.S. in Ed., Ed. Maine, 1937	*South Paris*
Collins, Eugene William, A.B., Eh. Villanova, 1933	*Paulsboro, N. J.*
Cousins, Irene, B.A., Hy. Maine, 1911	*Brewer*
Covell, Mildred Edith, B.S., He. Ed. Maine, 1937	*Monmouth*
Cowdrey, Corinne, B.S. in Ed., He. Ed. Boston University, 1932	*Needham, Mass.*
Craig, Frances Straw, A.B., Ed. Stetson, 1921	*Lakeland, Fla.*
Crocker, Alice Velma, B.S. in Ed., Hy. Boston University, 1937	*Bangor*
Crockett, Christina May, B.S., He. Ed. Framingham State Teachers, 1935	*Tenants Harbor*
Croxford, Paul Marks, B.A., Ed. Maine, 1934	*North Penobscot*
Daigle, Yvonne, B.S. in Ed., Ed. Maine, 1938	*St. Francis*
Daley, Carolyn Thomas, B.S., He. Ed. Farmington Normal, 1939	*Bangor*
Dalton, Helen Elizabeth, B.A., Ed. Trinity College (Washington), 1923	*Warren, Mass.*
Darroch, William Clifton, B.S. in Ed., Ed. Maine, 1939	*Princeton*
Dekin, Albert Arch, B.S., Ed. Maine, 1932	*Danforth*
Dennett, Winburn Albert, B.S., Ed. Maine, 1918	*Hopedale, Mass.*
Dimitre, Phyllis Marie, B.A., Eh. Maine, 1937	*Calais*
Dixon, Edwin Ray, B.C.S., Ed. Rider College, 1929	*Carthage, N. Y.*
Dolan, Charles Richard, A.B., Hy. Colby, 1938	*Machias*
Dorr, Frank Edward, A.B., Ed. Bates, 1925	*Freeport*
DuBourdieu, Marion, A.B., Ed. Bates, 1919	*Bangor*

Dunfee, Emery Sewell, B.S., Ed. *Brownville Junction*
Colby, 1933
Dwyer, Lawrence Wendell, A.B., Ed. *Hermon*
Colby, 1938
Eaton, Stanley Boyd, B.S., Ed. *Howland*
Maine, 1931
Egelston, Vera Vernette, B.S., Ed. *Rutland, Vt.*
Syracuse, 1932
Emery, Margery Wilson, A.B., Fr. *Ellsworth*
Bates, 1937
Estes, Margaret Julia, A.B., Ed. *Bangor*
St. Elizabeth, 1921
Farris, William Meloy, B.S. in Ed., Ed. *Windsor, Conn.*
Boston University, 1935
Fiske, Agnes Vey, B.S. in Ed., Ed. *Mooresville, Mo.*
Northeast Missouri State Teachers College, 1929
Fraser, Jessie Landy, B.A., Eh. *Bangor*
Maine, 1931
Freedman, Harry, A.B., LL.B., Gt. *Brooklyn, N. Y.*
City College of New York, 1924;
Columbia, 1928
Friend, Mary Hattie, B.A., Ed. *Skowhegan*
Maine, 1924
Galbreath, Ida Mae, A.B., A.M., Ed. *Canton, Ohio*
Allegheny, 1921; Columbia, 1932
Gardner, Edith Oak, B.S., He. *Orono*
Maine, 1936
Gillis, Hugh Allen, B.S., Es. *Lincoln*
Maine, 1939
Gleason, Eleanor Mary, S.B., Zo. *Wakefield, Mass.*
Simmons, 1932
Gleason, Wallace Fred, Jr., B.A., Ms. *South Portland*
Maine, 1938
Goffery, Francis P., B.Pd., A.M., Eh. *Jamaica, N. Y.*
Jamaica Teachers College, 1930;
Columbia, 1934
Googins, Elva Elizabeth, B.A., Hy. *Ellsworth*
Maine, 1937
Graber, Homer Joseph, B.S., Ed. *Chester, Pa.*
Pennsylvania State College, 1910
Grant, Wendell Russell, B.S., Ed. *Sherman Mills*
Colby, 1928

Gregory, Gardiner Emerson, A.B., Ed. Colby, 1939	*Waterville*
Gregory, Selma Lavinia, B.S., He. Maine, 1934; Simmons, 1936	*Boothbay Harbor*
Gricius, Prakseda Lucy, B.S. in Ed., Ed. Bridgewater State Teachers, 1937	*Bridgewater, Mass.*
Griffin, Elizabeth Howe, B.S., Ed. Colby, 1923	*Lincolnville*
Hale, William Wallace, B.S., Ed. Colby, 1925	*Easton*
Hall, John Raymond, Ph.B., Eh. Brown, 1934	*Swansea, Mass.*
Hall, Walter Randall, A.B., Ed. Brown, 1940	*Swansea, Mass.*
Hallowell, Lee Vivian, B.S. in Ed., Ed. Boston University, 1939	*Bucksport*
Hannagan, Anna Gertrude, A.B., Sh. Colby, 1933	*Madison*
Henry, Blanche Isabelle, B.A., Hy. Maine, 1933	*Thomaston*
Hess, Elizabeth Charlene, B.S. in Ed., Eh. Mansfield State Teachers, 1936	*New Providence, Pa.*
Higgins, Marietta Sarah, A.B., Eh. Park, 1938	*Sylvan Grove, Kans.*
Hines, Gabriella Randolph, B.A., Fr. New Hampshire, 1939	*Richmond Hill, L. I., N. Y.*
Hoctor, Cathryn Rita, B.S. in Ed., Ed. Maine, 1936	*Old Orchard Beach*
Hopke, George K., B.S. in Ed., Ed. New York University, 1935	*Patchogue, N. Y.*
Howe, Inez Lubel, B.A., Eh. Maine, 1933	*Bryant Pond*
Huger, Gladys Caroline, A.B., He. Harris Teachers College, 1933	*St. Louis, Mo.*
Hughes, Virginia Callista, B.S., Sy. Michigan State Normal, 1932	*Ypsilanti, Mich.*
Huntington, Elizabeth Alling, B.S. in Ed., Ed. Rutgers, 1932	*Maplewood, N. J.*
Husson, George Edwin, B.S. in Ed., Ed. Salem State Teachers, 1935	*Lynn, Mass.*

Ingalls, Hollis Page, B.S., Ed. Maine, 1935	*Machias*
Jaffe, Herbert, B.Ed., Ed. Teachers College of Connecticut, 1937	*New Britain, Conn.*
Jenkins, William Henry, B.S. in Ed., Ed. Maine, 1935	*Fort Fairfield*
Johnson, Joyce Hope, B.S., He. Ed. Farmington Normal, 1938	*Brownville Junction*
Johnson, Pearl Ernest, B.S., Ed. Maine, 1922	*East Millinocket*
Jones, Serena Frances, B.R.E., M.A., Ed. Boston University, 1925; 1928	*Portsmouth, N. H.*
Judkins, Beatrice Adeline, B.E., He. Ed. Keene State Teachers, 1937	*Lakeport, N. H.*
Kandel, Herbert Jay, B.S., Ch.Eng. Virginia Military Institute, 1939	*Norfolk, Va.*
Keith, Philip Edward, B.S., Ed. Colby, 1926	*Charleston*
Kellner, Armin, B.A., Gt. University of Miami, 1940	*Miami, Fla.*
Kellner, Kay Tannenbaum, B.A., Hy. University of Miami, 1940	*Miami, Fla.*
Kilburn, Frank Macready, A.B., Ed. Cornell, 1915	*Machias*
Knight, Evelyn Bertha, B.S., Ed. Farmington Normal, 1937	*Westbrook*
Kolouch, Joseph Frederick, B.S., M.S., Ed. Maine, 1926; 1927	*Mapleton*
Kukelski, Jules Henry, A.B., LL.B., Ed. Columbia, 1929; Yale, 1932	*Jersey City, N. J.*
Lancaster, Barbara Alice, B.A., Ed. Maine, 1937	*Old Town*
Langley, Florence, S.B., He. Ed. Simmons, 1928	*Wilmot, N. H.*
Leighton, Mary Elizabeth, B.A., Ed. Maine, 1938	*Alfred*
Leighton, Melvin Theodore, B.S. in Ed., Ed. Maine, 1939	*Bangor*
Lindsey, Walter Kenneth, B.S., Ed. Bates, 1932	*Swanton, Vt.*

Lockwood, John Elmer, Jr., B.S., Ed. Maine, 1924	*Douglas Hill*
Lowell, Mildred Harriet, B.A., Ed. Lebanon Valley College, 1929	*Lodi, N. J.*
Lynch, Arline Frances, B.A., Ed. Maine, 1925	*Brewer*
McCobb, Helen Gertrude, B.S. in Ed., Ed. Maine, 1938	*Lincolnville*
McCormick, Rose Caroline, A.B., Ms. Mount St. Mary College, 1940	*Concord, N. H.*
McGraw, Carl Winfield, A.B., Ed. Colby, 1940	*Levant*
McKechnie, Karl Harold, B.S., Ed. Maine, 1924	*Unity*
McKeen, Earle Alton, B.S., Ed. Colby, 1929	*Ashland*
McMahon, Helen Mary, B.S., Ed. Tufts, 1922	*West Haven, Conn.*
MacDougal, Kenneth Allen, B.S. in Ed., Ed. Mississippi State, 1938	*Bowdoinham*
Mackenney, Leroy Nelson, B.A., Ed. Maine, 1920	*Duxbury, Mass.*
MacLaughlin, Christine Marie, B.A., Py. Maine, 1927	*Malden, Mass.*
Mackall, Nellie B., B.S., Hy. Johns Hopkins, 1931	*Baltimore, Md.*
Marsh, Philip Merrill, B.A., M.A., Ed. Maine, 1929; 1932; Harvard, 1932	*Houlton*
Matheson, Margaret Salmond, A.B., Fr. Colby, 1934	*Rockland*
Matthews, Rachel, B.A., Ms. Maine, 1930	*Hampden Highlands*
Miller, Philip LeRoy, B.S., Ed. Colby, 1929	*Caribou*
Miller, Robert Nicol, A.B., Hy. Colby, 1936	*Norridgewock*
Miller, Rose Mary, B.S., Ed. Middlebury, 1933	*Groton, Vt.*
Monnier, Clarence William, B.S., Ch. Slippery Rock State Teachers, 1935	*Tarentum, Pa.*

Moors, Vivian Imogene, B.A., Ed. *Orono*
Maine, 1933
More, Emma Faldon, B.S. in Ed., Ed. *Lorain, Ohio*
Wittenberg, 1933
Morris, Ruth, B.S. in Ed., He. *Greensburg, Pa.*
Ohio University, 1938
Mosher, Wendall Earl, B.S., Es. *Orono*
Maine, 1929
Mullaney, Ellen Mary, B.A., Ed. *Bangor*
Maine, 1930
Murtha, George Lester, A.B., Ed. *New Britain, Conn.*
Southern College, 1930
Nealley, Kenneth Clark, B.A., Hy. *Winterport*
Maine, 1926
Neipp, Ernest George, A.B., Ed. *New Britain, Conn.*
Birmingham-Southern, 1929
Nutter, Jennie Louise, A.B., Hy. *Hinckley*
Colby, 1926
Packard, Ned Williams, A.B., Ed. *Sebago*
Bowdoin, 1933
Parker, Ruby Elizabeth, B.A., He. *Lompoc, Calif.*
Santa Barbara State, 1935
Pearson, Maurice Eugene, B.S., Ed. *West Sullivan*
Colby, 1932
Pease, Margaret Sullivan, B.S., He. *North New Portland*
Farmington Normal, 1938
Perkins, Bernard Gordon, B.A., Ms. *Orono*
Maine, 1937
Perkins, Philip Charles, B.S. in Ed., Ed. *Castine*
Maine, 1933
Perry, Mary Katherine, B.A., Ed. *Orono*
Maine, 1936
Perry, Ruth Elizabeth, B.S., He. Ed. *Orono*
Maine, 1936
Peters, Frederick Vincent, B.S. in Ed., Ed. *Dexter*
New York University, 1932
Phillips, James William, B.A., Ed. *Woodbury, N. J.*
New York State College for Teachers, 1920
Pierce, David Purington, B.A., Ed. *Guilford*
Maine, 1936
Price, Ruth E., B.A., Ed. *Hubbard, Ohio*
Muskingum, 1937

Raedel, Marian Nason, B.S. in Ed., Ed. North Adams State Teachers, 1936	*Winthrop, Mass.*
Randall, Adeline Gertrude, B.Ed., Ed. Rhode Island College of Education, 1930	*Woonsocket, R. I.*
Raymond, Gordon Byron, B.S. in Ed., Ed. Maine, 1938	*Robinson's*
Reed, Patricia Marie, A.B., Sy. Ohio University, 1938	*Warren, Ohio*
Rice, Peyton English, B.S., Pa. Washington and Lee, 1940	*Little Rock, Ark.*
Riley, Clyde Elwood, A.B., Ed. Colby, 1927	*Westboro, Mass.*
Robinson, Glenn Meredith, B.S. in Ed., Ed. Maine, 1940	*Bangor*
Rouse, Lillian Aileen, B.M., Ed. Cincinnati Conservatory of Music, 1926	*Peekskill, N. Y.*
Sankey, Helen Corbet, B.S., Ed. Washington University, 1937	*St. Louis, Mo.*
Saunders, Ethel Stover, B.A., Ed. Maine, 1931	*Bucksport*
Schaffner, Joanna, B.A., Fr. Muskingum, 1937	*Falls Creek, Pa.*
Schmitt, Leonard John, A.B., Ed. Kentucky Wesleyan, 1931	*New Britain, Conn.*
Sezak, William, B.S. in Ed., Zo. Boston University, 1938	*Colebrook, N. H.*
Sherman, Ivan Cecil, B.A., Eh. Maine, 1932	*Union*
Shibles, Perry Foster, B.S., Ed. Colby, 1927	*Dover-Foxcroft*
Skillin, Freda, B.S., He. Ed. Farmington Normal, 1929	*Biddeford*
Smith, Ralph Stanley, A.B., Ed. Bowdoin, 1930	*Carmel*
Snell, John Alden, B.S., Ed. Maine, 1927	*Hampden*
Spalding, Edward Lewis, B.S., Ed. Maine, 1935	*Newburyport, Mass.*
Springer, William G., B.S., Ed. Colby, 1929	*Pittsfield*
Stahl, Jeannette Olivia, A.B., Ed. Bates, 1931	*Rockland*

Stevens, Machaon Edward, A.B., Ms. Colby, 1939	*Waterville*
Sweetser, Lawrence Richardson, B.S., Ed. Maine, 1932	*Orono*
Tarbell, Jennie Elizabeth, A.B., Eh. Colby, 1937	*Smyrna Mills*
Theriault, Martin Harold, B.S., Ed. Maine, 1931	*Millinocket*
Thurrell, Myron Bartlett, B.S., Ed. New Hampshire, 1935	*Torrington, Conn.*
Toothaker, Alberta Ryal, B.S., He. Ed. Farmington Normal, 1937	*Orrington*
Tracey, Louise Gertrude, A.B., Ed. Colby, 1937	*Waterville*
Trickey, Katherine Woodworth, B.A., Ed. Maine, 1932	*Bangor*
Wagner, Howard Ide, B.S., Ed. Connecticut State College, 1939	*Stafford, Conn.*
Wakefield, Vachel Lindsay, A.B., Ed. Hiram, 1930	*Bangor*
Walker, Carleton Leslie, A.B., Ed. Bates, 1923	*Middletown, Conn.*
Walker, Victor Laffin, B.S., Ed. Maine, 1936	*Portland*
Wall, Adelaide Murrell, B.S., Ed. Pittsburgh, 1936	*Bangor*
Weber, David George, B.A., M.S., Lt. Mt. Union, 1934; Michigan, 1940	*Bergholz, Ohio*
Wentworth, George Roland, B.S., Ed. Notre Dame, 1936	*Millinocket*
Whitcomb, Maude Pauline, B.E., He. Ed. Keene State Teachers, 1937	*Wilton, N. H.*
White, Nathan William, B.S., Ed. Maine, 1935	*Presque Isle*
White, Ralph Rochefort, B.A., Ed. Wesleyan, 1932	*New Haven, Conn.*
Wickens, Estella Margaret, B.S., Ed. Wooster, 1933	*Lorain, Ohio*
Wilcox, Henry Victor, A.B., Ed. Colby, 1937	*Belfast*
Willett, Raymond Stanley, B.A., Ed. Maine, 1937	*Newport*

Woodcock, Sally Crosby, B.A., Hy. Manhattanville, 1939	*Bangor*
Woods, James Henry, B.S., S.T.B., Ch. Colby, 1929; Harvard, 1934	*East Bridgewater, Mass.*
Worthington, Esther, B.S., He. Ed. Rhode Island State College, 1930	*North Attleboro, Mass.*

OTHER SUMMER SESSION STUDENTS, 1940

Adams, John Samuel, B.S. Maine, 1932	*Lincoln*
Adams, Norris Stanwood	*Portland*
Adler, Sylvia	*New Britain, Conn.*
Allen, Alice Moore	*Bangor*
Allen, Theresa Helen	*Bangor*
Alley, Fletcher Moody	*Beals*
Anderson, Helen Margaret	*Bangor*
Anderson, Mildred Martha E.	*Collinsville, Conn.*
Armstrong, LaVerne Rhine	*Carterville, Ill.*
Ashmore, Barbara Fogg	*Bangor*
Atwood, Ina Mabel	*Hudson, N. Y.*
Babcock, Arlene Evangeline	*Bangor*
Bacon, Otis Zalmon	*Oakland*
Ballantyne, Ruth Hall	*Lincoln*
Ballou, Lance Chaffee, Jr.	*Lynnfield Center, Mass.*
Bancroft, Hope Carolyn	*Machias*
Barber, Samuel Richard	*Carolina, R. I.*
Bard, Bertha Lauretta	*Mt. Vernon, N. Y.*
Barker, Byron Winfred, A.B. Clark, 1910	*Bangor*
Baron, Dorothy	*Lewiston*
Barrett, Francis Matthew	*Danforth*
Barrows, John Clifford	*Glen Ridge, N. J.*
Batchelder, Clayton Everett	*Saylesville, R. I.*
Bearce, Elizabeth Talbot	*Bucksport*
Beer, G. Raymond	*Fitchburg, Mass.*
Belden, Marguerite Hay	*Bangor*
Bell, Dorothy Eddith	*Orono*
Benjamin, Charles Smith, Jr.	*Etna, N. Y.*
Benn, Hazel Elizabeth	*Ludlow*
Bernhard, Emma	*Brooklyn, N. Y.*

Berry, Walter Edwin	*Machiasport*
Berryman, Frances Olga	*Presque Isle*
Blaisdell, Joseph Everett, A.B., A.M. Bates, 1916; Columbia, 1925	*Rockland*
Blake, Mary Elizabeth	*Bangor*
Blanchard, Ruth Jordan	*Bangor*
Blom, Carl Johansen	*Portland*
Bouchard, John Louis	*Presque Isle*
Bowley, Elsie Evelyn	*Milo*
Boyce, Marguerite Mary	*Portland*
Boynton, Vernon Winship	*Madison*
Brackett, Donald Twitchell	*Portland*
Bradbury, Dorothy Marie	*Fort Kent*
Bray, Elizabeth	*Orono*
Brawn, William Sylvanus	*Islesboro*
Brown, Leah Marion	*East Corinth*
Brown, Leonora May	*Bangor*
Brown, Patricia Harvell	*Robbinston*
Brown, Priscilla Evelyn	*Milford*
Bryan, Donald French	*Orono*
Bryanton, Doris Crook	*Brewer*
Bryer, Louis Martin	*Bronx, N. Y.*
Buker, Margaret Kathleen	*Pittsfield*
Burgoyne, Dorothy Evelyn	*Howland*
Burke, M. Dorothy	*Bangor*
Burns, Jennie Mae	*Newport*
Byrns, Winnie Mae Martin	*Washington, D. C.*
Campbell, Francis Hendren, B.A., M.A. Texas University, 1925; Columbia, 1934	*Beaver Falls, N. Y.*
Canning, Geraldine Elizabeth	*Bar Harbor*
Carlin, Mary Isabel	*Bangor*
Carson, Mary Margaret	*Bangor*
Carstensen, Andrew Emanuel	*Island Falls*
Carter, Bertha Wheeler	*Etna*
Carter, Elton Stewart	*Mapleton*
Chaffers, Clarence John	*Lewiston*
Chambers, Kathleen Rosalind, A.B. Columbia, 1929	*Kennebunkport*
Ching, Chiong Kee	*New York, N. Y.*
Christensen, William Mathias, Jr.	*Auburn*
Christie, Frances Bayard, A.B., M.A. Wilson College, 1927; University of Pennsylvania, 1933	*Morrisville, Pa.*

Christopher, Dorothy Alyce	*Old Town*
Clark, Winifred Bachelder	*Bangor*
Cleary, Doris Rose	*Malden, Mass.*
Clishiam, Mildred Bridget	*Baltimore, Md.*
Clough, Stella Josephine, B.S., M.A. Columbia, 1928, 1931	*Montclair, N. J.*
Coffin, Robert Tristram	*Brunswick*
Coiley, Dorothy Eaton	*Glen Cove*
Colson, Avis Thayer	*Hampden Highlands*
Colson, Winifred Louise	*Stockton Springs*
Conant, Caroline Lucile, A.B. Tufts, 1923	*Long Branch, N. J.*
Condaras, Mary	*Greenwich, Conn.*
Conlon, Katherine Cecelia	*New Cumberland, W. Va.*
Cooley, Elva Moore, B.S. Temple University, 1938	*North Wales, Pa.*
Coolidge, Doris Evelyn	*Upton*
Cooper, Carlota Case	*Orono*
Coverdale, Harriet Hinchliff	*Portsmouth, Ont., Canada*
Cowan, Frances Rebecca	*Brewer*
Cowan, Gladys Helen	*Oakland*
Cowan, Marian Eliza	*Montague, Mass.*
Cowan, Mary Janet	*Edgewater Park, N. J.*
Cox, Barbara	*Bangor*
Crabtree, Irvia Hinckley	*Ellsworth*
Craig, Elizabeth	*Hamden, N. Y.*
Crandall, Quenton Kenwood	*Presque Isle*
Crowe, John Brendan	*Bangor*
Crowell, Jane	*Bangor*
Croxford, Erma Devereux	*North Penobscot*
Culley, Margaret	*Exeter*
Cummings, Sybil Jane	*Portland*
Cuozzo, George Vincent, B.S. Maine, 1931	*Bangor*
Curran, Esther Marie	*Bangor*
Curtis, Lucille Holmes	*Winterport*
Dalrymple, Stewart Willard	*Newton Center, Mass.*
Davies, Lawrence Webber	*Bangor*
Day, Maurice Goodwin	*Princeton*
Day, Muriel Thornton	*Princeton*
Delano, Audrey Emma	*Milo*
Dennett, Viola Gould	*Hopedale, Mass.*

Dennis, Alfreda	*Bangor*
Dole, Francis Henry	*Bangor*
Donovan, Frances Kathleen	*Bangor*
Dostie, Archie Oliver, A.B. Bowdoin, 1920	*Skowhegan*
Dow, Leslie Alexander	*Stillwater*
Downes, Bernice Mae	*Hampden Higlands*
Drinkwater, Edna Antoinette	*Belfast*
Drisko, Frank Eugene	*Harrington*
Drummond, Pauline Louise	*Orono*
Duff, Roy Elwood	*Monticello*
Dunning, Clement Stevens	*North Harpswell*
Dyer, Clarence, B.S., M.A. Colby, 1930; Wesleyan, 1934	*Houlton*
Earl, Noble Clarkson, III	*North Andover, Mass*
Eastman, Eleanor	*Providence, R. I.*
Ellingwood, Richard Grant	*Rockland*
Elwell, Robert Arthur	*Gorham*
Emmett, Stora William	*Old Town*
Enders, Nellie Helen	*Sharon Springs, N. Y.*
Evans, Helen, B.A., M.A. Rutgers, 1928; Smith, 1930	*Trenton, N. J.*
Evans, Pauline Elizabeth	*Elloree, S. C.*
Evans, William Henry	*Manhasset, L. I., N. Y.*
Eves, Pearl Charlotte	*Hudson, N. Y.*
Factor, Oscar	*New York, N. Y.*
Fellows, Elizabeth	*Bangor*
Fellows, William Edwin	*Bangor*
Fergatto, Antonio Frank	*Portland*
Ferguson, Anna Loren	*Bangor*
Fickett, Anne Louvera	*Newport*
Fischer, Josephine Estelle	*Baltimore, Md.*
Fish, R. Donald	*Belfast*
Ford, Carolyn Frances, A.B. Bates, 1938	*Kittery*
Foster, John Warren	*Detroit, Mich.*
Fox, Ruth Emma	*Bangor*
Freedman, Bessie Harris	*Jersey City, N. J.*
Freedman, Monroe Aleck	*New York, N. Y.*
French, Esther Irene	*Skowhegan*
Galaher, Robert Brisbane	*North Andover, Mass.*
Garrison, Ardrith Louise	*Madison*

Gates, Albert Stevenson, Jr.	*Boston, Mass.*
Gettys, Elizabeth Thomas, A.B. Winthrop College, 1930	*Rock Hill, S. C.*
Gibbs, Hilda Powers	*Bangor*
Gilkey, Anne Grinnell	*Bangor*
Gilmore, Charlotte Frances	*Brewer*
Gloden, Felix Anthony, B.S. in Ed. Maine, 1940	*Mexico*
Godwin, Halsted Buel	*Orono*
Goldfinger, George, D.S. Sorbonne, 1937	*New York, N. Y.*
Goldfinger, Herta	*New York, N. Y.*
Goodling, Jean Ruth, A.B. Albright College, 1935	*Seven Valleys, Pa.*
Goodwin, Miriam	*North Anson*
Gordon, Tena L.	*Burlington*
Goss, Grace Reed	*Bangor*
Gould, Ruby Maud	*Kenduskeag*
Goutier, Peter Joffre deM.	*Brewer*
Grant, Buford Leach	*Bangor*
Greenlaw, Dorothy Ford	*Dover-Foxcroft*
Griffin, Edna Mae	*Bangor*
Hamlin, Joseph Hamor, B.A. Maine, 1938	*Lincoln*
Hamlin, Stephen Clark	*Ramsey, N. J.*
Haney, Evelyn Louise, B.L.I. Emerson College of Oratory, 1932	*Bangor*
Hannan, Hazen Betford	*Liberty*
Hanscom, Edith Farnsworth	*Lee*
Harding, Jennie Gertrude	*Stockton Springs*
Haskell, William Douglas	*Fulton, N. Y.*
Hatfield, Gertrude	*Akron, Ohio*
Hathaway, Charlotte Elizabeth	*Millinocket*
Hayes, Harry Thomas	*Portland*
Hayes, Marion Frances	*Bangor*
Hendricks, Bernice Alfred	*Island Falls*
Hennessy, Lewis Daniel	*Brewer*
Herrick, Horace Perry, B.S. Bates, 1928	*Bath*
Hersey, Rowena Elizabeth, B.A., L.B.S. Maine, 1923; Columbia, 1932	*Bangor*
Herthum, Florence	*Oriskany, N. Y.*

Hichborn, Clyde Austin	*Medford Center*
Hickson, Helen Catherine	*Bangor*
Hill, Irja Ilona	*Morrill*
Hillson, Thelma Louise	*Old Orchard Beach*
Hilton, Marie Adeline	*Bangor*
Hinckley, Harriett Palmer	*Hinckley*
Hinkley, Philip Joseph, B.S. Maine, 1940	*Cumberland Mills*
Hoctor, Ann Louise	*Old Orchard*
Hodgkins, Winfield Chester, Jr.	*Bar Harbor*
Horowitz, Beatrice A.	*Bronx, N. Y.*
Howard, Hazel Roberts	*Derby*
Huckins, Evelyn Lucinda	*Clifton*
Hulse, Harry Boutelje	*Tenafly, N. J.*
Ingalls, Katherine Virginia	*Ellsworth*
Ingalls, Wilma R.	*Machias*
Israel, Charles Edward	*Baltimore, Md.*
Jackson, Nora Elizabeth	*Augusta*
Jaffe, Saul, B.S. New York University, 1922	*Brooklyn, N. Y.*
Janssen, Pearl Z., B.S., M.S. South Dakota State College, 1921; Wisconsin, 1933	*Ithaca, N. Y.*
Jardine, Autice Winnefred	*Washburn*
Jardine, Witha Margaret	*Washburn*
Jenkins, Betty Pauline	*Fort Fairfield*
Johnson, Charles William, B.S., M.A. New York University, 1931, 1933	*Brooklyn, N. Y.*
Johnson, Mildred Ruth	*Caribou*
Johnson, Ronald Charles	*Perry*
Johnston, Jack Calvados	*Ellsworth*
Jones, Jane Amanda	*Milo*
Jordan, Margaret Hamblen	*Bangor*
Jordan, Mary Ellen	*Mechanicville, N. Y*
Joy, Nathan Sargent	*Winter Harbor*
Kalnin, Charles Henry	*LaGrange*
Keeley, Susan Mary	*Bridgeport, Conn.*
Keen, Harriet Elizabeth	*Rochester, N. Y.*
Kelley, Daniel Lenhart	*Eastport*
Kelly, John Eugene, Jr., A.B. Princeton, 1937	*New York, N. Y.*
Kennedy, Beth Lenore	*Bangor*

Kennedy, Dana Forrest	*Bar Harbor*
Kilfoil, Anna Frances	*Bangor*
King, Constance MacGregor	*Bangor*
Kingsbury, Walton Cameron	*Boonville, N. Y.*
Kruse, Paul Frederick	*Bangor*
Kukelski, Carlotta Edna, B.S., M.A. Columbia, 1928, 1930	*Jersey City, N. J.*
Kurtz, Byrnes	*Mountain View, N. J.*
Ladd, Laura Miriam	*Brewer*
Laden, Bessie Ann, B.Ed. Milwaukee State Teachers College, 1936	*Milwaukee, Wis.*
Ladner, Roy Alexander, Jr.	*Bangor*
Landes, Beatrice B.	*New York, N. Y.*
Lange, Roland Parlin	*Jackman Station*
Lasher, Ethel	*Poughkeepsie, N. Y.*
Lawry, Edward Heath	*Fairfield*
Lehmiller, Ruth, B.A. Wilson College, 1905	*Canton, Ohio*
Lemon, Robert Cecil	*Lakewood, Ohio*
Leonard, Henry Grant, Jr.	*Westfield, N. J.*
Letts, Dorothy Elizabeth	*Scotia, N. Y.*
Li, Yau Luen	*Chicago, Ill.*
Libby, Lilian Jeannette	*Bangor*
Little, Eleanor Nightingale, A.B., M.A. Wellesley, 1909; Wisconsin, 1931	*Dubuque, Iowa*
Littlefield, Edna Mae	*Guilford*
Lockwood, Margaret	*Sewaren, N. J.*
Longfellow, Frances Edith	*Machias*
Lord, Wyman Holden	*Harrison*
Lowell, Arlene Hall	*Lee*
Luce, Roger Franklin	*Hampden Highlands*
Lunt, Ruth Helen	*Bangor*
Lynk, Ruth Irene	*Bangor*
McAllister, Mabel Bessie	*Milford*
McCann, Everett Francis, B.A. Maine, 1926	*East Millinocket*
McCarthy, M. Elizabeth	*Bangor*
McCaw, Elizabeth Adele	*Brewer*
McConachie, Adele J.	*Springfield, Mass.*
MacDonald, Josephine Alice	*East Millinocket*
MacDougall, Mary Blanche	*Bangor*
McGuire, Cecilia Mae	*Chatham, N. Y.*

McGuire, Mildred Eddy, B.S. in Ed. Maine, 1940	*Bangor*
McKenney, David Harrison	*Jay*
MacLaughlin, Grover Bert	*Lee*
MacLeod, Irene Gibson	*Dark Harbor*
McMahon, Madeline Margaret	*East Millinocket*
McNeil, Arthur Louis, M.A., Ph.D. Gonzaga University, 1932; Catholic University, 1936	*Spokane, Wash.*
Maki, Aili Anna Kaariina	*Portland*
Mansfield, Marcia	*Atlanta, Ga.*
Marston, Leslie Pembroke	*Westbrook*
Marston, Margaret DeForest	*East Orange, N. J.*
Marston, Virginia Dillingham	*Bangor*
Martin, Albert Dennis	*Frenchville*
Matter, Alice Mathilda	*College Point, L. I., N. Y.*
Mayforth, Eileen Maureen	*Glenbrook, Conn.*
Meisner, Marjorie Bessie	*Stoneham, Mass.*
Messing, Martha Adler	*Newark, N. J.*
Meyer, Jane Robbin	*East Greenwich, R. I.*
Meyerson, Martin Daniel	*Brooklyn, N. Y.*
Miller, Fannie Butcher, B.S., A.M. Cornell University, 1925; Columbia, 1935	*Elmer, N. J.*
Miller, Frances Patricia	*Brownville Junction*
Miller, John Prince	*West Medford, Mass.*
Miller, Muriel Herbert, B.S. Cornell University, 1925	*Plainfield, N. J.*
Misbach, Dorothy Lois	*Williamsburg, Iowa*
Monohon, Lottie McDevitt	*Bangor*
Moody, Edward Fairfield, Jr.	*Cape Elizabeth*
Morang, Marguerite Flagg	*Pembroke*
Morgrage, Russell Irvin	*Bangor*
Moulton, Margaret	*Bangor*
Murray, Ethel Pauline	*Saco*
Neal, Elizabeth	*Lake George, N. Y.*
Newell, Harry Severy, B.A. Bates, 1921	*Orono*
Nichols, Clarence Sidney	*Augusta*
Nichols, Everett Landon	*Stillwater*
Noling, Flora Louise	*South Orange, N. J.*
Norton, Hazel Corneille	*Mt. Vernon, N. Y.*
Norton, Joseph Dole	*Fitchburg, Mass.*
Oakes, Stewart Francis	*Rangeley*

O'Connor, Dorothy Imelda	*Waterbury, Conn.*
O'Donnell, Sally Ann	*Melrose, Mass.*
Packard, Ruth Gray	*Orono*
Palmer, Ruth Isabel	*East Bangor*
Parker, Robert George, B.A. Maine, 1938	*Fort Fairfield*
Parsons, Charles William	*East Millinocket*
Patten, Laverna Arline	*Carmel*
Paulin, Clara Bernice	*Bangor*
Peavey, Glenice Gertrude	*Bangor*
Perkins, Alma Ellen	*Penobscot*
Perry, Anne Elizabeth, B.A. Maine, 1940	*Bangor*
Perry, Clarence Henry Merrill	*Wayne*
Perry, Lucy Angela, A.B. College of New Rochelle, 1938	*East Hampden*
Peterson, Linnea Hilma	*Islip, L. I., N. Y.*
Philbrook, Florence Baldwin	*Castine*
Pinkham, Frederick Winborn	*Lincoln*
Pixley, Ruth Elizabeth	*Nineveh, N. Y.*
Pomroy, Clayton Arnold	*Hancock*
Powers, Helen Morton	*Bangor*
Powers, Marion Porter	*Bangor*
Pratt, May Jeannette	*Boothbay Harbor*
Proctor, Jean, B.S. Syracuse, 1939	*Portland*
Puffer, Roberta	*Columbia*
Putnam, Aaron Hacker	*Houlton*
Reary, Hilda S., Ph.B. Muhlenburg College, 1934	*Boyertown, Pa.*
Reed, Cecelia Lillian	*Frankfort*
Richardson, Lillace Goldie	*Plymouth*
Ringdahl, Florence Gertrude	*Bangor*
Robbins, Frederick Grover, Jr.	*Bangor*
Roberts, Blodwyn Lloyd	*Pleasantville, N. Y.*
Robertson, Philip Sumner	*North Sullivan*
Robinson, Alton Leon	*Lewiston*
Robinson, Donald Manfred	*Staten Island, N. Y.*
Rogers, Donald Sargent	*Dennysville*
Rogers, Janet Moore	*Madison*
Rolfe, Laura Bradbury	*Enfield*

Rowe, Mary Ellen, A.B.	*West Minot*
Bates, 1935	
Rowley, Phyllis	*Gloucester, Mass.*
Rudman, Murray, LL.B.	*Brooklyn, N. Y.*
St. Johns University, 1932	
Russell, Doris	*White Plains, N. Y.*
Ryan, Lucy Catherine	*Millinocket*
Samuelson, Robert Wentworth	*Waban, Mass.*
Savage, Lucian Odel	*Etna*
Sawyer, Clara Elizabeth	*Bucksport*
Schlothauer, Sophie, A.B.	*St. Louis, Mo.*
Harris Teachers College, 1931	
Scott, Roland Albert	*Biddeford*
Scully, Mary Elizabeth	*Waterbury, Conn.*
Seabury, Edwin Morey	*Orono*
Sedgeley, Maude Corinne	*Phillips*
Sellers, Ida Jeanette	*Penobscot*
Shaw, John Mulneaux	*Perry*
Sheedy, John Richard	*Portland*
Sherburne, Janet Caroline	*Bangor*
Shultz, Arzelia Helen	*Glens Falls, N. Y.*
Shultz, Reginald Ferree, B.S., M.A.	*Glens Falls, N. Y.*
Central Normal College, 1932; Columbia, 1939	
Smart, Atwood Ora	*Houlton*
Smith, Eleanor Mary	*Brewer*
Smith, Francis Wager, B.S.	*Portland*
Maine, 1939	
Smith, Gladys Olivia, B.Ed., M.Ed.	*Carterville, Ill.*
Southern Illinois Teachers College, 1928; University of Illinois, 1937	
Smith, Letitia Evyline	*Derby*
Smith, Liv Lundevale	*Orono*
Smith, Lyndall T.	*Skowhegan*
Smith, Marcia Gertrude	*Brewer*
Smith, Odber Dell	*North New Portland*
Smith, Orald Leroy	*Auburn*
Smith, Sylvia Celia	*Bangor*
Soule, Laurence William	*Augusta*
Southard, Alma Avis	*Kenduskeag*
Spencer, Carl Edward	*Anson*
Spink, Agnes Forbes	*Portland*
Spruce, Helen Carmelita	*Old Town*

Steward, Ethelyn Marie	*Bangor*
Stockholm, Harold Yager	*Poughkeepsie, N. Y.*
Stone, Helen Cooper	*Camden*
Strout, Elizabeth Estelle	*Harrington*
Strout, Francis Leroy	*Milbridge*
Strype, Frederick Culver, Jr.	*Ridgewood, N. J.*
Sweet, Ruth Lois	*South Glens Falls, N. Y.*
Syphers, Ansel James	*Mars Hill*
Terpening, Vera, A.B., M.A., B.S. Syracuse, 1933; Columbia, 1934; New York State College for Teachers, 1937	*Richmondville, N. Y.*
Thompson, Elmer Patterson	*Brownfield*
Thompson, Julian Page	*Bangor*
Thompson, Mildred Ada	*Orono*
Thornton, Clarice Alexine	*Burlington*
Thornton, Seth Winfield	*Belfast*
Thorp, Esther Alma	*Littleton, Colo.*
Tildsley, Margaret, A.B. Smith, 1922	*New York, N. Y.*
Tobey, Madeline Geneva	*Kittery Point*
Tomlinson, Eleanor May, B.S. Wilson College, 1924	*Morrisville, Pa.*
Toothaker, Eleanor Alice	*Pittsfield*
Torrey, Rita Frances	*Cherryfield*
Trask, Allen Dudley	*Melrose, Mass.*
Trefethen, H. True, B.S., M.A. Colby, 1927, 1928	*Belfast*
Tremblay, Jean Joseph	*Iroquois Falls, Ont., Canada*
Tyndall, Frances Alberta	*Medway, Mass.*
Varney, Donald McLean	*Portland*
Venus, Harriet Ruth, B.S. Albright College, 1934	*York, Pa.*
Vose, Grace Gallagher	*Bangor*
Wagnis, Joseph John	*Pownal*
Walker, Alexander	*Rochester, N. Y.*
Walsh, Mary Anne	*Bangor*
Watson, Carline Wilda	*Bangor*
Watson, Carlisle Vives, Jr.	*Auburn*
Watson, Jean Margaret, B.A. Colby, 1929	*Brewer*
Webber, Lewis Ervin	*Saco*
Webber, Louise Clark	*Saco*

Webster, Alice Elizabeth	*Bangor*
Wechter, Harry Lucian, B.S.	*Dalton, Mass.*
American International College, 1937	
Weeks, Gertrude	*Patten*
Welch, Catherine Elizabeth	*Bangor*
Wentworth, Marjorie Lee	*Bangor*
Wetherbee, William Howard	*Orono*
Weymouth, Flora Gwendolyn	*Howland*
Wheeler, Margaret Isobel	*Great Barrington, Mass.*
White, Bertha Keenan	*St. Johnsbury, Vt.*
Whitman, Forrest Giles	*East Auburn*
Whitman, Madeline Frances	*Cumberland Mills*
Whitney, Anne Lou	*Old Town*
Whitney, Eva Amelia	*Torrington, Conn.*
Williams, Eugene Bomberger	*Winston-Salem, N. C.*
Willins, Alberta Susie	*Bucksport*
Wilson, Edith Grace, B.A., M.A.	*Orono*
University of Southern California, 1923, 1928	
Wilson, Hazel Marjorie	*Lakeville, Conn.*
Wilson, Marguerite Elfreida	*Calais*
Winter, Alan John Day	*Kingswood, Surrey, England*
Witt, Anna Mildred	*Prospect Park, Pa.*
Woodman, Edward	*Seal Harbor*
Wray, Alma Page	*Brewer*
Yoder, Florence Booker	*Hartford, Conn.*
York, Alfreda Wheeler	*Plainfield, Vt.*
Young, Hugh Edwin	*Aurora*

STUDENTS AT MARINE BIOLOGICAL STATION, LAMOINE

Bliss, Donald Thayer	*Edgewood, R. I.*
*Cail, Robert Small, B.A.	*Portland*
Maine, 1939	
Kelley, John Joseph	*Kingston, Pa.*
*Lewis, Margaret Ann, A.B., Ph.B.	*Scranton, Pa.*
Cedar Crest College, 1926; Muhlenberg College, 1926	
Lorenz, Philip Boalt	*Dayton, Ohio*
*MacBride, Dorothy Helena, B.A.	*St. Stephen, N. B., Canada*
New Brunswick, 1940	
Moore, Marjorie	*Edgewood, R. I.*
Popeck, Stanley	*Dickson City, Pa.*

Risman, George Carl	*Roxbury, Mass.*
Roche, Paul Joseph	*Eastport*
*Roudabush, Robert Lee, A.B., M.B., Ph.D.	*Rochester, N. Y.*
Lebanon Valley, 1931; Iowa State, 1932, 1936	
Simister, Alice Vernon	*Warren, R. I.*
Towne, Ruth Anna	*East Dover*
*Walsh, John Henry, B.S.	*Scranton, Pa.*
Scranton, 1940	
Zimmerman, George Landis	*Harrisburg, Pa.*

* Registered for Graduate Credit.

Summary of Student Enrollment

1940–1941

	Men	Women	Total
Graduates	50	19	69
Seniors	315	122	437
Juniors	351	115	466
Sophomores	372	128	500
Freshmen	407	150	557
Specials	23	6	29
Upperclass students conditioned for admission	5	1	6
Two-Year Agriculture			
1st Year	21	—	21
2nd Year	15	—	15
	1559	541	2100
Summer Session	258	371	629
Grand Total (omitting duplicates in Summer Session)	1774	898	2672

Classification by Colleges

Graduate Study	50	19	69
College of Agriculture	458	202	660
College of Arts and Sciences	371	295	666
College of Technology	643	2	645
School of Education	37	23	60
	1559	541	2100

Candidates for Degrees

Graduate Study	50	18	68
College of Agriculture	421	199	620
College of Arts and Sciences	362	292	654

College of Technology	630	2	632
School of Education	37	23	60
	1500	534	2034

Classification by Residence

Maine, by counties:	Regular Session	Summer Session	Total
Androscoggin	61	5	66
Aroostook	146	24	170
Cumberland	223	26	249
Franklin	42	1	43
Hancock	99	21	120
Kennebec	100	8	108
Knox	44	9	53
Lincoln	28	2	30
Oxford	74	4	78
Penobscot	514	168	682
Piscataquis	44	16	60
Sagadahoc	30	2	32
Somerset	73	20	93
Waldo	40	16	56
Washington	62	28	90
York	100	11	111
	1680	361	2041

	Regular Session	Summer Session	Total
Maine	1680	361	2041
Massachusetts	231	36	267
New York	73	52	125
Connecticut	36	21	57
New Jersey	29	22	51
Pennsylvania	7	16	23
Rhode Island	8	8	16
New Hampshire	6	6	12
Ohio	0	10	10
Vermont	5	5	10
Maryland	1	4	5
Missouri	0	4	4
South Carolina	0	4	4

Virginia	4	0	4
Florida	0	3	3
Illinois	0	3	3
California	1	1	2
District of Columbia	1	1	2
Iowa	0	2	2
Michigan	0	2	2
Washington	1	1	2
Arkansas	0	1	1
Colorado	0	1	1
Delaware	1	0	1
Georgia	0	1	1
Kansas	0	1	1
Louisiana	1	0	1
Minnesota	1	0	1
Montana	1	0	1
North Carolina	0	1	1
Oregon	1	0	1
South Dakota	1	0	1
Tennessee	1	0	1
West Virginia	0	1	1
Wisconsin	0	1	1
Canada	5	2	7
Phillipine Islands	2	0	2
Australia	1	0	1
Cuba	0	1	1
England	1	0	1
Territory of Hawaii	1	0	1
	2100	572	2672

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