The University of Maine
DigitalCommons@UMaine

General University of Maine Publications | University of Maine Publications

1940

University of Maine, Orono, Maine, Catalog Number with Records of the Sessions of 1939-1940

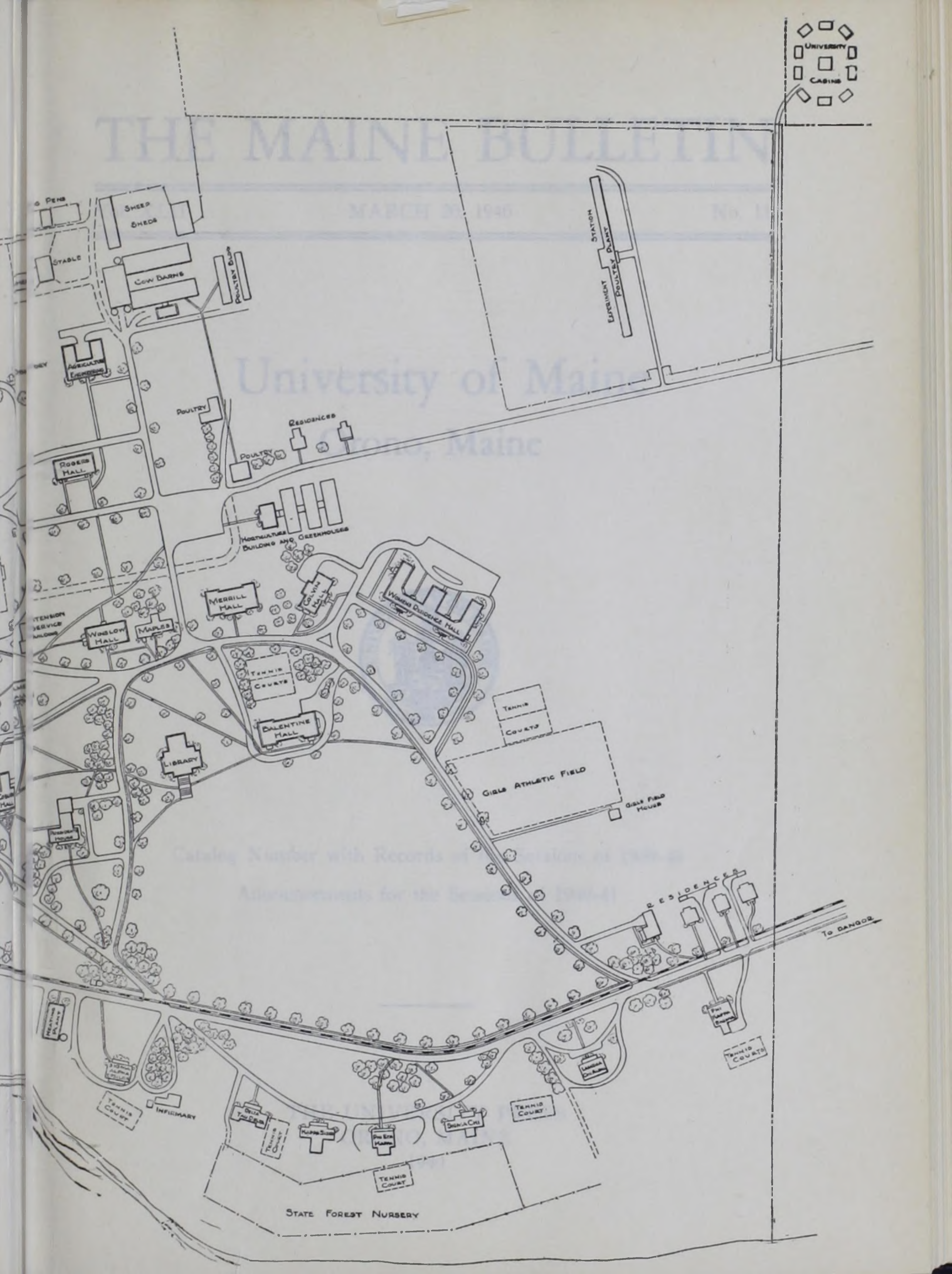
University of Maine, Office of Student Records

Follow this and additional works at: https://digitalcommons.library.umaine.edu/univ_publications

Part of the Higher Education Commons, and the History Commons

Repository Citation
University of Maine, Office of Student Records, "University of Maine, Orono, Maine, Catalog Number with Records of the Sessions of 1939-1940" (1940). *General University of Maine Publications*. 87.
https://digitalcommons.library.umaine.edu/univ_publications/87

This Monograph is brought to you for free and open access by DigitalCommons@UMaine. It has been accepted for inclusion in General University of Maine Publications by an authorized administrator of DigitalCommons@UMaine. For more information, please contact um.library.technical.services@maine.edu.


University Cabins
Sheep Sheds
Stable
Cow Barns
Poultry Bldg
Station
Experiment Poultry Plant
Poultry
Residences
Poultry
Rogers Hall
Horticulture Building and Greenhouses
Merrill Hall
Colvin Hall
Women's Residence Hall
Winslow Hall
Maples
Tennis Courts
Balentine Hall
Tennis Courts
Library
Girls Athletic Field
Girls Field House
Residences
To Bangor
Heating Plant
Tennis Court
Infirmary
Tennis Court
Tennis Court
Tennis Courts
State Forest Nursery

THE MAINE BULLETIN

Vol. XLII MARCH 20, 1940 No. 11

University of Maine

Orono, Maine

Catalog Number with Records of the Sessions of 1939-40

Announcements for the Sessions of 1940-41

THE UNIVERSITY PRESS
ORONO, MAINE
1940

TABLE OF CONTENTS

	PAGE
Calendar	6
Officers of the University	
Board of Trustees	8
Officers of Administration	9
Faculty	14
Committees of the Faculty	43
General Information—Facilities of the University	44
History	44
Location	45
Buildings	45
Athletic Fields	48
University Farms	49
Equipment—Libraries and Collections	49
Publications	52
Health Service	53
Placement Bureaus	53
Student Activities	54
Church Services	58
Admission	59
Admission to the Freshman Class	59
Required and Elective Subjects	61
Requirements in Detail	64
Admission of Special and Short Course Students	68
Admission by Transfer	68
Registration	68
Financial Matters	69
Student Expenses	69
Loan Funds	72
Scholarships and Prizes	74
Degrees	85
Student Regulations	86
Organization of the University	88
College of Agriculture	90
General Information	90
Curricula	91
Two-Year Course	123

Short Courses 124
Departments of Instruction with Courses 126
College of Arts and Sciences 163
General Information 163
Specimen Curricula 170
Departments of Instruction with Courses 182
School of Education 243
General Information 243
Courses 249
College of Technology 253
General Information 253
Experiment Station 255
Curricula 257
Departments of Instruction with Courses 277
General Courses 303
Tutorial Honors 303
Military Science and Tactics 303
Physical Education and Athletics 308
Graduate Study 314
Maine Agricultural Experiment Station 320
Summer Session 324
Extension Courses 325
Alumni Associations 326
Honors and Prizes Awarded, 1939 334
Commencement Program, 1939 341
Degrees Conferred, 1939 342
Catalog of Students, 1939-1940 358
Summer Session Students, 1939 420
Summary of Student Enrollment 443
Index 446

1940

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

FEBRUARY

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

MARCH

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

OCTOBER

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

1941

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

FEBRUARY

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

MARCH

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

APRIL

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

MAY

Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

JULY

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AUGUST

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

DECEMBER

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Calendar for 1939-40

Fall Semester

		1939
Entrance Examinations	Monday, Tuesday	Sept. 11, 12
First day of Freshman Week, Registration	Wednesday, 8-12 M., 1:30-3 P.M.	Sept. 13
Registration of Transfer Students	Monday, 10-12 M., 2-3 P.M.	Sept. 18
Registration of Upperclassmen	Tuesday, 8-12 M., 1:30-3 P.M.	Sept. 19
Classes begin	Wednesday, 8 A.M.	Sept. 20
Freshman reports due	Friday	Oct. 20
Mid-semester reports due	Tuesday	Nov. 21
Thanksgiving Recess begins	Wednesday, 11:30 A.M.	Nov. 29
Thanksgiving Recess		
Instruction resumed	Monday, 8 A.M.	Dec. 4
Christmas Recess begins	Friday, 11:30 A.M.	Dec. 15
Christmas Recess		
		1940
Instruction resumed	Tuesday, 8 A.M.	Jan. 2
Preliminary Registration, Arts and Sciences	Monday-Saturday	Jan. 15-20
Classes end	Wednesday, 5:05 P.M.	Jan. 24
Final Examinations begin	Thursday, 8 A.M.	Jan. 25
Examinations end; Semester ends	Friday	Feb. 2

Spring Semester

Registration	Saturday, 8-12 M.	Feb. 3
Classes begin	Monday, 8 A.M.	Feb. 5
Washington's Birthday, a holiday	Thursday	Feb. 22
Comprehensive Examinations, Arts and Sciences	Saturday	March 16
Inspection Trip, Technology	Monday-Saturday	March 18-23
Sophomore Qualifying Examinations, Technology	Friday-Saturday	March 22-23
Spring Recess begins	Saturday, 11:30 A.M.	March 23
Spring Recess		
Mid-semester reports due	Tuesday	March 26
Instruction resumed	Tuesday, 8 A.M.	April 2
Open House, Technology	Saturday	April 20
Oral Comprehensive Examinations, Arts and Sciences	Monday-Saturday	April 22-27
Preliminary Registration, Arts and Sciences	Monday-Saturday	May 13-18
Entrance Examinations	Monday-Wednesday	May 20-22
Classes end	Monday, 5:05 P.M.	May 27
Final Examinations begin	Tuesday, 8 A.M.	May 28
Examinations end	Wednesday	June 5
Sixty-ninth Annual Commencement		
Class Day	Friday	June 7
Alumni Day	Saturday	June 8
Baccalaureate Service	Sunday	June 9
Commencement Exercises	Monday	June 10

Summer Camp

Civil Engineering and Forestry Camp begins	Tuesday	June 11
Camp ends	Saturday	July 20

Summer Session

Registration	Monday, 8-12 M., 1:30-4:30 P.M.	July 1
Classes begin	Tuesday	July 2
Session ends	Friday, 12 M.	Aug. 9

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, Technology	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

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	Augusta
Term expires July 6, 1946	
Eugene Boutelle Sanger, Ph.B., M.D., F.A.C.S.	Bangor
Term expires November 20, 1940	
Raymond Webber Davis, B.A.	Guilford
Term expires July 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, 1940	

Executive Committee, Davis, Packard, 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, 16 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.
University Physician. Walter Charles Hall, M.D., 20 Fernald Hall; 64 Mill Street.
Treasurer. Frederick Shaw Youngs, Alumni Hall.
*Treasurer Emeritus. Charles John Dunn, 114 Main Street.
Business Manager and Purchasing Agent. 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; 378 College Road.

*Deceased November 10, 1939.

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.

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; 55 Bennoch Street.

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 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 Demerritt, 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.

Public Speaking. Professor Bailey, 240 Stevens Hall; University Place.

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.

Zoology. Professor Murray, 16 Coburn Hall; 184 Main Street.

OF THE DORMITORIES

Balentine Hall, Pearl Orletta Baxter, Superintendent.
B.S. in Ed., Northwestern University, 1927; M.A., Boston University, 1937.

BALENTINE HALL, Edna Lawton Sheraton, Assistant Superintendent.
R.N., New England Deaconess Hospital, 1909.

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

ELMS, Christine Whidden Lowe, Superintendent.

ELMS, Azalea Ladner Boyer, Assistant.
B.A., Maine, 1938.

MAPLES, Gertrude Hayes, Superintendent.

NORTH HALL, Mabel Frances McGinley, Superintendent.
B.S., Maine, 1905.

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

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.

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.
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

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

UNIVERSITY PRESS

Roy Wesley Libby, Superintendent.

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.

Stevens, James Stacy; B.S., Rochester, 1885; M.S., 1888; M.S., Syracuse, 1889; LL.D., Rochester, 1907; Litt.D., Maine, 1922; Dean Emeritus of the College of Arts and Sciences; 175 Main 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.

Aldous, Clarence Moroni (1936); B.S., Utah State, 1917; M.S., University of Minnesota, 1923; Associate Professor of Game Management, College of Agriculture; 9 Coburn; 67 Mill 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; 378 College Road.

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; Associate 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; 69 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 and Head of Department of Public Speaking, 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; Instructor in English, College of Arts and Sciences; 225 Stevens; Balentine Hall.

Bennett, Clarence Edwin (1934); Ph.B., Brown, 1923; Sc.M., 1924; Ph.D., 1930; Associate Professor and Head of Department of Physics, College of Arts and Sciences, member of Graduate Faculty, and coöperating 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; Instructor in Civil Engineering and Research Assistant in Technology Experiment Station, College of Technology; B1 Lord; 4 Middle Street.

Bliss, Warren Herbert (1931); B.S., Michigan State College, 1928; M.S., 1931; E.E., 1939; Instructor in Electrical Engineering, College of Technology; 4 Lord; 6 North Main Street.

Bogan, Edgar Junior (1929); A.B., Miami, 1926; A.M., Princeton, 1929; Instructor in Chemistry, College of Technology; 425 Aubert; 36 Main Street.

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; 28 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 and Chemical Engineering, College of Technology, member of Graduate Faculty, and coöperating 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.

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

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

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; 3 Riverdale.

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; Associate 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.

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; 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 University, 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; Instructor in Zoology, College of Arts and Sciences; 7 Coburn; 15 Pond Street.

Cooper, James Gordon, Jr., (1938); Major, Infantry (D.O.L.), U. S. Army; Associate Professor of Military Science and Tactics; Armory; 32 College Road.

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; Bennoch Road, Stillwater.

Crawford, John Raymond (1930); B.A., Culver-Stockton, 1924; M.A., State University of Iowa, 1929; Ph.D., 1931; Assistant 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; 28A 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; 10 Gilbert 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; 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 coöperating 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.

Dow, Edward French (1929); B.S., Bowdoin, 1925; A.M., Harvard, 1926; Ph.D., 1932; Professor and Head of Department of History and Government, College of Arts and Sciences, member of Graduate Faculty, and coöperating 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, Delwin Bennett (1938); B.A., Wisconsin, 1936; M.A., Minnesota, 1937; Instructor in Public Speaking, 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 coöperating 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; Assistant Professor of English, College of Arts and Sciences; 230 Stevens; Stillwater Avenue, Stillwater.

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.

*GILLILAND, WILLIAM LESTER (1927); B.S., University of Washington, 1920; M.S., 1921; Ph.D., Massachusetts Institute of Technology, 1925; Assistant Professor of Chemistry, College of Technology.

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.

---

*On leave of absence, fall semester, 1939-40.

HENKLE, HARRY LYNN (1937); Major, Infantry (D.O.L.), U. S. Army; Associate Professor of Military Science and Tactics; Armory; 17 Peters 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.

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.

†HYLAND, FAY (1926); B.S., Michigan State College, 1925; M.S., Maine, 1929; Assistant Professor of Botany, College of Agriculture.

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

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 Chemistry, College of Technology; 103A Aubert; 80 Forest Avenue.

---

†On leave of absence, 1939-40.

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; University Place.

Kelley, Calista Berthena (1938); B.S., Vermont, 1927; M.A., St. Lawrence, 1932; Instructor in Home Economics, College of Agriculture; 33a Merrill; 48 Main Street.

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, William 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; Assistant 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 coöperating 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; 28 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; 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; 39 Pine Street.

Leavitt, Harold Walter (1917); B.S., Maine, 1915; C.E., 1918; M.S., 1921; Professor of Highway Engineering, and Secretary of 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; Assistant 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.

Loupret, George Joseph (1936); Captain, Coast Artillery Corps (D.O.L.), U. S. Army; Assistant Professor of Military Science and Tactics; Armory; University Place.

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.

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; 22 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 and Government, College of Arts and Sciences, member of Graduate Faculty; 150 Stevens; 66 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 coöperating member of the faculty of the School of Education; 16 Coburn; 184 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.

Nelson, Elven Clifford (1933); B.A., University of Colorado, 1929; M.A., 1930; Sc.D., Johns Hopkins, 1933; Assistant Professor of Zoology, College of Arts and Sciences; 14 Coburn; 86 North 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; 24 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; 35 Winslow; 23 Crosby Street.

Nolan, William John (1938); Ch.E., Rensselaer Polytechnic Institute, 1929; Ph.D., University of Michigan, 1936; Associate Professor of Chemical Engineering, College of Technology; 115 Aubert; 169 Center 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.

Osgood, Carl Chapin (1939); B.S., Maine, 1938; Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; Sigma Chi House.

Otto, Carl Everett (1924); B.A., Cincinnati, 1916; M.A., 1920; Ph.D., 1922; Associate Professor of Chemistry, College of Technology; 421 Aubert; 430 College Road.

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 History and Government, College of Arts and Sciences; 350 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 coöperating member of the faculty of the School of Education; 3 Stevens, North; 29 Bennoch Street.

Pierce, Wilbur Parker (1939); A.B., Dartmouth, 1931; M.S., Vermont, 1934; Ph.D., Wisconsin, 1939; Instructor in Botany, College of Agriculture; 31 Coburn; 40 College Road.

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

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.

Roberts, Everett Louis (1921); B.S., Maine, 1920; Assistant Professor of Electrical Engineering, College of Technology; 3 Lord; 4 Summer 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; 25 Wood Street, Old Town.

Runion, Howard Lucius (1936); A.B., University of Michigan, 1931; M.A., 1932; Ph.D., 1936; Assistant Professor of Public Speaking, College of Arts and Sciences; 350 Stevens; 15 Pond 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; 36 Main 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; Assistant Professor of English, College of Arts and Sciences; 245 Stevens; 84 College Road.

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

Small, George William (1929); B.A., Tennessee, 1915; M.A., Johns Hopkins, 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; Assistant Professor of Classics, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 110 Stevens; 102 North Main Street.

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.

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; Assistant 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 coöperating member of the faculty of the School of Education; 15 Stevens, North; 217 Union Street, Bangor.

SPRAGUE, EMBERT HIRAM (1915); B.S., Dartmouth, 1900; Professor of Sanitary Engineering, College of Technology, member of Graduate Faculty; 21 Wingate; 180 Main Street.

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; 66 College Road.

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.

STEPHENSON, LEONIDAS DACOSTA, JR., (1929); B.S., North Carolina State College, 1927; Assistant Professor of Civil Engineering, College of Technology; 11 Wingate; 195 Middle Street, Old Town.

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.

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.

‡SWEETSER, WILLIAM JORDAN (1915); S.B., Massachusetts Institute of Technology, 1901; Professor and Head of Deparment of Mechanical Engineering, College of Technology, member of Graduate Faculty.

SWIFT, HAROLD CLAYTON (1920); B.S., Maine, 1918; M.S., 1923; Assistant Professor of Agronomy and Agricultural Engineering, College of Agriculture; 22 Agricultural Engineering Building; 40 Wiley Street, Bangor.

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

---

‡Deceased October 16, 1939.

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; 6 North Main 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 Acting Head of Department of Mechanical Engineering, 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 (1898); 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, Howard Rawson (1937); B.A., Buffalo, 1932; M.A., 1933; Ph.D., State University of Iowa, 1936; Instructor in Psychology, College of Arts and Sciences; 39 Stevens, North; Stillwater Avenue, Stillwater.

Whitmore, Albert Ames (1918); B.S., Maine, 1906; M.A., 1917; Professor of History and Government, 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; 172 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; 106 North Main Street.

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 coöperating 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; Instructor in Physics, College of Arts and Sciences; 314 Aubert; 75 Forest Avenue.

WILSON, EDITH GRACE (1931); B.A., Southern California, 1923; M.A., 1928; Instructor in Sociology, College of Arts and Sciences, Dean of Women; 16 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 and Government, College of Arts and Sciences, member of Graduate Faculty; 175 Stevens; 56 Main 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.

BROWN, ALICE LOWE; A.B., Colby, 1899; Critic Teacher, School of Education; Old Town High School; 26 North Fourth Street, Old Town.

CROXFORD, HORACE ALCANDER; B.A., Maine, 1930; Instructor and Critic Teacher, School of Education; Orono High School; 35 Myrtle Street.

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; 123 Middle 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 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.

Anderson, Frank Abel; B.S., Southern California, 1936; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 43 Peters Street.

Carter, Nelson Bradford; B.S., Maine, 1938; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 12 Brimmer Street, Brewer.

Crandon, Harry Drew; B.S., Maine, 1929; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; Bennoch Road, Stillwater.

Durick, Rosemary Beatrice; B.A., University of New Brunswick, 1938; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 30 Coburn; 3 Riverdale.

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.

Fry, James Howard; B.S., Pennsylvania State, 1938; Graduate Fellow in Biochemistry, College of Agriculture; 15 Winslow; 14 Middle Street.

Gorham, Paul Raymond; B.A., University of New Brunswick, 1938; Graduate Fellow in Botany, College of Agriculture; 26 Coburn; 37 Pine Street.

Hendrickson, Karl Newcomb; B.S., Maine, 1938; Graduate Assistant, Department of Civil Engineering, College of Technology; 21 Wingate; 1 James Street, Brewer.

Kalil, John Hanna; B.S., New Hampshire, 1939; Graduate Assistant, Department of Civil Engineering, College of Technology; 21 Wingate; 43 Main Street.

Kelly, Donald Hoyt; B.S., New Hampshire, 1938; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 43 Peters Street.

Kittams, Walter Howeth; B.S., Utah State Agricultural College, 1939; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; 37 Pine Street.

Kroll, Henry Michael; A.B., Clark, 1938; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 25 Coburn; 53 North Main Street.

Lamoreau, Jeanette; B.A., Maine, 1939; Graduate Assistant, Department of Mathematics and Astronomy, College of Arts and Sciences; 135 Stevens; South Hall.

LANDON, MELVIN VOORHEES; A.B., Williams, 1938; Graduate Assistant, Department of Physics, College of Arts and Sciences; 406 Aubert, 36 Forest Avenue.

MAASS, HERMAN MARTIN; B.S., State College of Washington, 1939; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 26 Peters Street.

MALLET, ALFRED PARKER; B.A., Maine, 1939; Graduate Assistant, Department of Mathematics and Astronomy, College of Arts and Sciences; 135 Stevens; Phi Gamma Delta House.

MANSFIELD, AGNES LUCY; B.A., Smith College, 1938; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 30 Coburn; 3 Riverdale.

MARSTON, MERWIN ABBOTT; B.S., Maine, 1939; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; Phi Mu Delta House.

MONTGOMERY, ROBERT DUDLEY; B.S., Minnesota, 1937; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; 53 North Main Street.

MUNDT, JOHN ORVIN; B.S., Wisconsin, 1938; Graduate Fellow in Bacteriology, College of Agriculture; 23 Winslow; 25 Myrtle Street.

OLESON, FREDERICK BARBOUR; A.B., Colby, 1938; Graduate Fellow in Physics, College of Arts and Sciences; 406 Aubert; 2 Myrtle Street.

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.Sc. in Arts, University of New Brunswick, 1939; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 430 College Road.

PHILBROOK, GEORGE EDWIN; B.S., Maine, 1938; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 43 Peters Street.

POPE, DONALD BARTLETT; B.S., University of Illinois, 1938; Graduate Fellow in Dairy Husbandry, College of Agriculture; 28 Rogers; 25 Myrtle Street.

SAVERAID, JOYE HAROLD; B.S., Iowa State, 1938; Graduate Assistant in Wildlife Conservation, College of Agriculture; 9 Coburn; 53 North Main Street.

TOPPING, FRANCIS LAWRENCE; B.A., Maine, 1935; Graduate Assistant, Department of Zoology, College of Arts and Sciences; 25 Coburn; 38 Pierce Street.

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

ZIEMER, CHARLES WALTER; B.S., Utah State Agricultural College, 1938; Graduate Assistant, Department of Chemistry and Chemical Engineering, College of Technology; 303 Aubert; 18 Penobscot Street.

Maine Agricultural Experiment Station

COUNCIL

ARTHUR ANDREW HAUCK, Ph.D., LL.D.	*President*
FRED GRIFFEE, Ph.D.	*Secretary*
THOMAS EDWARD HOUGHTON, Fort Fairfield	*Committee of Trustees*
WILLIAM STOCKDALE NUTTER, M.A., Sanford	
*FRANK PORTER WASHBURN, Augusta	
ARTHUR LOWELL DEERING, Sc.D.	*Dean of the College of Agriculture and Director, Extension Service*
VINCENT WALTER CANHAM, Lewiston	*State Grange*
WILSON HIRAM CONANT, Buckfield	*State Pomological Society*
FRED JEWETT NUTTER, Corinna	*State Dairymen's Association*
WILLIAM GEORGE HUNTON, Portland	*Honorary Member*
ROSS ELLIOTT, East Corinth	*Maine Livestock Breeders' Association*
CHARLES CONANT CLEMENTS, Winterport	*Maine Poultry Improvement Association*

ELMER ROBERT TOBEY, Ch.E.
DONALD FOLSOM, Ph.D.
CHARLES HENRY MERCHANT, Ph.D.
PEARL STUART GREENE, A.M.
WILLIAM FRANKLIN DOVE, Ph.D.
FRANK HEIDTMAN LATHROP, Ph.D.
CHARLES HARRY WHITE, Ph.C.
REINER BONDE, Ph.D.
GEORGE FARRINGTON DOW, Ph.D.
MARION DEYOE SWEETMAN, Ph.D.
JOSEPH ANTHONY CHUCKA, Ph.D.
FREDERICK BARKER CHANDLER, Ph.D.
RUSSELL MANLEY BAILEY, B.S.
MARY MORRIS CLAYTON, Ph.D.
BERNIE ELLIOTT PLUMMER, JR., M.S.
DELMAR SIMON FINK, Ph.D.
JOHN HENRY HAWKINS, Ph.D.
MILLARD GEORGE MOORE, M.S.

Members of the Station Staff

* Also a member of the Council ex officio as Commissioner of Agriculture.

Faculty of Investigation

Arno, John Raymond, Assistant Soil Surveyor
B.S., Maine, 1936; M.S., 1938.

Averill, Alice Woods, Laboratory Assistant in Entomology.

Bailey, Russell Manley, Associate Geneticist.
B.S., Maine, 1928.

Barnes, Ronald Eugene, Coöperative Agent, Soil Conservation Service.
B.S., Maine, 1938.

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

Bowers, Ruth Wilma, Assistant in Seed Analysis and Laboratory Assistant in Plant Pathology.

Brautlecht, Charles Andrew, Collaborating Chemist.
Ph.B., Yale, 1906; Ph.D., 1912.

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

Chadwick, Frank, Jr., Assistant in Animal Breeding.
B.S., Maine, 1936.

Chandler, Frederick Barker, Associate Physiologist in Charge of Blueberry Investigations.
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.

Cotter, Marguerite Lillian, Laboratory Assistant in Biology.

Covell, Mildred Rebecca, Assistant Statistician.

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 in Plant Breeding.
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.

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.
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.
Inman, Charles Clyde, Administrative Assistant.
Kenney, Emmeline Wilson, Laboratory Assistant in Biology.
Lathrop, Frank Heidtman, Entomologist.
B.S., Clemson, 1913; M.S., Ohio State, 1915; Ph.D., 1923.
Lovejoy, Delmar Boynton, Assistant Soil Surveyor.
B.S., Maine, 1928; M.S., Wisconsin, 1935.
Mason, Irvin Carroll, Assistant in Physiology, Blueberry Investigations.
B.S., Maine, 1930; M.S., 1932.
Merchant, Charles Henry, Agricultural Economist.
B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928.
Monroe, Merna Myrtha, Assistant in Home Economics Research.
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, Field Assistant in Entomology.
B.S., Maine, 1939.
Plummer, Bernie Elliott, Jr., Associate Chemist.
B.S., Maine, 1924; M.S., 1925.
Pooler, Elaine Mary, Chief Assistant in Agricultural Economics.
Schrumpf, William Ernest, Assistant Agricultural Economist.
B..S, Maine, 1928; M.S., 1930.
Sibley, Mina Lelia, Assistant in Agricultural Economics.
Simpson, Geddes Wilson, Assistant Entomologist.
A.B., Bucknell, 1929; A.M., Cornell University, 1931; Ph.D., 1935.
Stacy, Joan Harriet, Assistant in Biology.
A.B., Smith, 1937.
Steinbauer, George Peter, Seed Analyst, Department of Inspections.
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.

Szulinski, Sophie, Assistant in Agricultural Economics.

Thornton, Marjorie Beryl, Assistant in Agricultural Economics.

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

Watson, Andrew Elwell, Assistant Agricultural Economist.
B.S., Maine, 1934; M.S., 1936.

White, Charles Harry, Associate Chemist and Photographer.
Ph.C., Maine, 1899.

Williams, Geraldine Franklyn, Assistant in Agricultural Economics.

MAINE TECHNOLOGY EXPERIMENT STATION

Board of Control

Paul Cloke, E.E., Eng.D. . . . . Director
Harold Walter Leavitt, M.S., C.E. . . . . Secretary
William Francis Scamman, M.A. . . . . Editor of Publications
Wilber Elmore Bradt, Ph.D. . . . . Department of Chemistry and Chemical Engineering
Weston Sumner Evans, M.S. . . . . Department of Civil Engineering
William Edward Barrows, B.S., E.E. . . . . Department of Electrical Engineering
Clarence Edwin Bennett, Ph.D. . . . . Department of Engineering Physics
Harry Dexter Watson, M.S. . . . . Acting Head, Department of Mechanical Engineering
Paul DeCosta Bray, B.S., Ch.E. . . . . Division of Pulp and Paper Technology

Members of the Station Staff

Earl Freeman Bennett, S.M., Research Assistant on Soils
Warren Herbert Bliss, M.S., E.E., Instructor in Electrical Engineering
Robert Bruce Bradford, B.S., Highway Laboratory Assistant Engineer
Wilber Elmore Bradt, Ph.D., Professor of Chemistry
Bertrand French Brann, S.M., Professor of Chemistry
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
Walter Joseph Creamer, B.S., E.E., B.A., Professor of Comunication Engineering
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 Chemistry
Harold Walter Leavitt, M.S., C.E., Secretary; and Professor of Highway Engineering
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

EMBERT HIRAM SPRAGUE, B.S., Professor of Sanitary Engineering

JOHN HENRY SWEATT, B.A., Bituminous Chemist for the State Highway Commission

JOSEPH MUZZY TREFETHEN, Ph.D., Assistant Professor of Geology in the Department of Civil Engineering

HARRY DEXTER WATSON, M.S., Professor, and Acting Head of Department of Mechanical Engineering

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
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, Extension Economist, Farm Management.
B.S., Maine, 1932.
Bruce Bear Miner, Assistant Extension Editor.
B.S., Cornell University, 1935
Wendall Earl Mosher, Executive Secretary to Director of Extension.
B.S., Maine, 1929

Estelle Nason, State Home Demonstration Agent Leader.
B.S., Maine, 1922
Albert Deane Nutting, Forestry Specialist.
B.S., Maine, 1927
Evelyn Marie Plummer, Assistant State Club Leader.
B.S., Maine, 1933
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
Ralph Carlton Wentworth, Knox and Lincoln Counties.
B.S., Maine, 1918

Home Demonstration Agents

Hortense Bradbury, Washington County.
B.S., Maine, 1935
Pauline Smith Budge, Somerset County.
B.S., Maine, 1935
Ruth Isabel Callaghan, Oxford County.
B.S., Maine, 1933
Frances Cisar, Piscataquis County.
B.S., South Dakota State College, 1928
Esther Louise Dunham, Knox and Lincoln Counties.
B.S., Framingham Normal, 1933
Agnes Freyer Gibbs, Cumberland County.
B.S., Framingham Normal, 1926
Gertrude Alice Harris, Franklin County.
B.S., Rhode Island State, 1936
Barbara Higgins, Waldo County.
B.S., Maine, 1930
Jessie Mildred Lawrence, Aroostook County.
B.S., Maine, 1928
Jeannette Linton, Kennebec County.
S.B., Simmons, 1937
Gladys Winnifred Marble, York County.
S.B., Simmons, 1919
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

County Club Agents

SPURGEON KEARNEY BENJAMIN, Waldo County.
B.S., Maine, 1935

EARLE THEODORE BLODGETT, York County.
B.S., Maine, 1927

LUCY MARGARET COBB, Penobscot County.
B.S., Maine, 1938

HERBERT ARTHUR LEONARD, Cumberland County.
B.S., Maine, 1939

LUCINDA EWER RICH, Knox and Lincoln Counties.
B.S., Maine, 1937

WAYNE SCHERMERHORN RICH, Androscoggin and Sagadahoc Counties.
B.S., Maine, 1934

DORIS ELEANOR ROSEN, Oxford County.
B.S., Maine, 1934

DEBORAH FLORENCE STEVENS, Aroostook County.
B.S., Maine, 1939

Committees of the University Faculty

ADMINISTRATION—President, College Deans, Dean of Men, Registrar, Treasurer.
ASSEMBLIES—Lutes, Loring, Morrow, Sprague, A. W., Watson, H. D.
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, Sprague, A. W., Wilson, E. G.
FINANCIAL AFFAIRS—Youngs, 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, Coggeshall, 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, Peterson, 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—Watson, H. D., Corbett, Stewart, Wilson, E. G., Youngs.
WOMEN STUDENTS—Wilson, E. G., Buzzell, Chadbourne, A. H., Crandon, Greene, Lengyel, Sweetman.

GENERAL INFORMATION

HISTORY

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

The institution opened September 21, 1868, with a class of twelve members and a faculty of two teachers; Dr. Merritt Caldwell Fernald was appointed acting president. By 1871 four curricula had been arranged—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences. Women have been admitted as students since 1872, in compliance with special legal enactment. The original name was changed to the University of Maine in 1897. The School of Education was established in 1930.

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

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

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

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

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

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

The institution has been served by the following presidents: Rev. Charles Frederick Allen, Dr. Merritt Caldwell Fernald, Dr. Abram Winegardner Harris, Dr. George Emory Fellows, Dr. Robert Judson Aley, Dr. Clarence Cook Little, Dr. Harold Sherburne Boardman, and Dr. Arthur Andrew Hauck.

LOCATION

The University is located in Orono, an attractive town of 3,300 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. Cars of the Bangor Hydro-Electric Company afford a half-hour trolley service in both directions.

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

Women's Dormitory (1940).—A women's dormitory with accommodations for 160 students.

The Elms.—A women's coöperative 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 2500, 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.

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, Theta Chi, Sigma Nu, and the Phi Eta Kappa Society have houses on the campus. The following chapters own houses in the vicinity of the University: Alpha 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 5,000 and also bleachers seating 3,700. 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, 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. Two new tennis courts were added to this plan during the fall of

1937, which materially relieve the increased demand for instruction and recreation in tennis.

THE UNIVERSITY FARMS

The University farms consist of approximately 645 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, 20 acres for systematic forestry, and 378 acres of forest and pasture lands. These farm lands, together with the campus, make the University holdings at Orono and vicinity approximately 745 acres.

THE LIBRARY

The University Library contained, at the end of the academic year, 136,785 volumes and over 33,000 pamphlets, including the following: Law Library, 5,600 volumes, available for reference at the Court House in Bangor; Agricultural Experiment Station Library, 10,119 volumes, on deposit in the library building; Maine Collection, 6,000 volumes and pamphlets, 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. 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

7:45 a.m.—9:30 p.m. Monday-Thursday
7:45 a.m.—9 p.m. Friday
8 a.m.—5 p.m. Saturday
2 p.m.—9:30 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 larger hall with wall footage 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 his-

torical 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.
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. "Elizabethan England," the Boston Museum's publication of forty-one contemporary pictures of England's grand epoch, is especially intended for the study of English literature.

Reading matter goes with each picture, 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 to 12:00 a.m. 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.—These collections are situated in room 24 on the second floor. The herbarium includes several collections of considerable value, the most important of which is the one made by the late Rev. Joseph Blake and presented to the University by Mr. Jonathan G. Clark, of Bangor. It contains more than 7,000 species of both flowering and flowerless plants, and repre-

sents more especially the flora of Maine and other New England states, but includes many forms from the Western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor F. L. Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algae of the Maine Coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticae, Cummings and Seymour's North American Lichens.

Geology.—The geological collections of minerals, rocks, and fossils are stored on the third floor in Fernald Hall. One large wallcase, containing mineralogical specimens, is located on the first floor of Winslow Hall.

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

Technology Experiment Station Publications consist of bulletins 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 coöperation with the General Alumni Association to offer to graduates, students, and employers a central bureau for information. 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 coöperate with the University departments in helping graduates to discover the kinds of employment for which their total qualifications fit them so as 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 include the attempt to secure part-time work during the college year and summer employment for undergraduates. The Bureau endeavors to assist the greatest number of students 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 coöperating pastors. The Association conducts religious services, discussions of practical student questions and social problems, holds retreats, sends out religious deputations to churches and schools, brings comfort to the sick, and in general seeks to meet the spiritual needs of the students. The secretaries act as representatives of several coöperating denominations. The work centers in the Maine Christian Association Building, which also serves as a union building for student activities. Its rooms for reading, rest, recreation, meals, study, and worship are open all day.

Honor Societies

There are at the University a number of honor societies designed to recognize attainment and promise in its various divisions. These elect to membership at regular intervals, according to their respective standards, those students whom they desire to honor. The tabulation below shows the scope of each society, 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.
Kappa Phi Sigma.—Education.
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 coördination with the course in interpretation and conducting in the Music Department, students properly qualifying are coached to conduct the concert presentations of the band. The band plays for various university functions and games and 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 by the Professor of Music as class work, for which students receive credit. Conditions of membership are listed under the Department of Music (Courses 25, 26).

University Orchestra.—This organization, recruited from the outstanding student talent, devotes weekly rehearsals to the study of standard and symphonic music. Its repertoire is presented in concerts on and off the campus. It accompanies the University Chorus and soloists in the annual Christmas Vespers and Music Night programs. Credit is granted for orches-

tra 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 Vermont, Boston University, Massachusetts State College, Bowdoin College, and Colby College are among the institutions usually scheduled for these debates, which are frequently of a dual nature. Members of this society are selected to represent the University on a debating tour of eastern institutions.

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 undenominational Fellowship Church. Other denominations are represented at Old Town and Bangor.

ADMISSION

ADMISSION TO THE FRESHMAN CLASS

General Requirements

Candidates for admission to the freshman class should apply to the 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 3) 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 fourth week in May. On request of any principal the University will send the necessary examination papers. Such requests should be received before May 11.

The examinations given by the College Entrance Examination Board will be accepted by the University. These examinations will be held June

15-22. 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 27 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 Arts and Sciences

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

College of Agriculture
(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 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 62.

††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 preparatoroy 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 ex-

pected 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 sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the fundamentals of French grammar.

II. *Intermediate.*—Those who desire credit for three units should be able to read modern 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.—*Elementary.*—The first year's work should comprise: careful drill upon pronunciation and oral work; the rudiments of grammar including the inflection of nouns, pronouns, and adjectives; the conjugation of the more common weak and strong verbs; the use of the more common prepositions; the conjugation and meanings of the modal auxiliaries; the elementary rules of syntax and word order; dictation and elementary composition; the reading of 75 to 100 pages of prose and poetry.

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

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

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

HISTORY

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

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

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

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

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

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

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

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

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

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

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

MATHEMATICS

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

Algebra to Quadratics.—One unit. The usual first-year course should give facility in factoring, simplification of fractions, solution of simple equations in one and two unknowns, use of graphs, exponents and radicals, 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, areas, regular polygons, and the measurement of the circle.

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

Advanced Algebra.—Permutations and combinations with applications of the theory limited to simple cases; complex numbers with graphical representation of 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.

SCIENCES

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

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

Chemistry.—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.

ADMISSION BY TRANSFER

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

A statement of his entrance record.

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

A letter of honorable dismissal.

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

Applicants should notify the Director of Admissions whether they desire admission to the College of Agriculture, the College of Arts and Sciences, the School of Education, or the College of Technology. A college catalog should be mailed unless the Registrar knows that the University of Maine is on the permanent mailing list. Applications from both men and women must be filed not later than August first.

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 1940, upperclassmen will be required to register on September 17, or to present written evidence that they have been excused from so registering by the University authorities. In other words, upperclassmen must before September 17 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 coöperative 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 Athletics & Debating	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 athletics and debating.

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 the new dormitory, 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 coöperative dormitory for women, accommodate two and three students each. Selection for the coöoperative dormitory is based on financial need, coöperation, and satisfactory scholarship.

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

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

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

Applications for dormitory rooms should be addressed to the Registrar.

Gymnasium Uniform for Women

Every woman will be expected to purchase a prescribed uniform before coming to college. Information regarding uniform and place where it can be bought will be sent with 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)	30.00	30.00
Special Assessment for Athletics and Debating	5.25	5.25
Health Service Fee	2.00	2.00
Freshman Week (Freshmen only)	8.00	8.00
	$286.75	$336.75

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 $30.00 to cover cost of equipment. This deposit is returned at the end of the year, less a charge for goods furnished, plus a charge for lost and misused equipment.

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

Diploma Fee

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

Communications

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

LOAN FUNDS

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

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.

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.

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.

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.

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.

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 stu-

dents who shall be residents of the State of Maine, majoring in horticulture at the said college of agriculture."

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.

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.

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.

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

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.

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.

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.

Esther Ayres 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.

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.

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.

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.

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.

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.

SCHOLARSHIPS AND PRIZES

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 March 1. Candidates may, if they wish, apply for particular scholarships. No student whose record is unsatisfactory will be considered eligible for any scholarship award. Unless otherwise indicated, all awards are made by the Committee on 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.

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

The Secondary School Contest Scholarships, eight, of $150 each, established by the Trustees in 1931, are awarded annually to the eight entering freshmen who as secondary-school seniors have made the highest average rank in the State Senior Scholarship Contest sponsored by the School of Education, except that only one award may be given to any school. The highest ranking student of the eight selected is awarded a tuition scholarship for four years, the second highest for three years, the third for two years, and the five next in order for one year each. Each scholarship is awarded for one semester and will be continued in the second semester upon evidence of satisfactory work in the University. Only students whose schools enter the Contest and compete according to the rules furnished every year by the University may take the tests.

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

The Charles H. Hood Fund Scholarships, seven, of $200 each, are available annually to men and women students of the College of Agriculture

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

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

The 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 General Alumni Association Scholarship, $150, established by the Association in 1935, is awarded to a senior student who is son or daughter of a graduate or former student of the University, whose conduct and scholastic record are satisfactory, who has been prominent in 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 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 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 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 tc be given to natives of Maine.

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 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 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."

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.

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

The Carrol C. Jones Scholarship, the net income 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 Ohio Alumni Association Scholarship, $50, established in 1934 by the Ohio Alumni Association, is awarded annually to a student whose character, scholarship, and need justify the award.

The Boston Alumni Association Scholarships, two, of $75 each, established in 1935, are awarded annually to any deserving student at the University, with preference given to male upperclassmen from eastern Massachusetts.

The Lincoln County Alumni Association Scholarship, $50, established in 1935, is awarded annually to an upperclassman whose home is in Lincoln County, on a basis of satisfactory academic record and conduct, qualities of leadership, and financial need.

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

The Philadelphia Alumni Association Scholarship, $50, established in 1935, is awarded annually to some needy and deserving student, with preference given to the vicinity of Philadelphia.

The Rhode Island Alumni Association Scholarship, $50, established in 1935, is awarded to a male student from Rhode Island or that portion of Massachusetts represented by the Association, whose personal and scholastic record is satisfactory and who has been prominent in extracurricular activities.

The Southern California Alumni Association Scholarship, $50, estabished in 1935, is awarded annually to some upperclass student whose scholastic record and conduct are satisfactory, who posseses qualities of leadership, and who is in need of financial aid.

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

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

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.

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

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 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 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 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 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 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 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 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 that upperclass student who shall have delivered the best speech of the persuasive type in a contest held for that purpose.

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 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 MAINE FARM BUREAU FUND SCHOLARSHIP, $75, is awarded annually to a junior or senior student, resident of Maine, in the College of Agricul-

ture, 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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.

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.

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 parents of all freshmen at the middle and end of the fall semester and at the end of the spring semester. Grade reports and letters pertaining to probation or trial are sent to parents of all students.

Parents are notified whenever a student is placed or continued on probation or continued on trial. They are also notified when the student is removed from probation or trial. While a student's work progresses satisfactorily, semester grade reports are not mailed to parents although a report will be sent at any grade period if desired. Application should be made to the Registrar.

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

College of Agriculture

Curricula in Agricultural Economics and Farm Management, Agricultural Education, 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.
Extension Lecture Courses.

College of Arts and Sciences

Curricula may be pursued either in departmental subjects: Chemistry, Classics, Economics, English, German, Government, History, Mathematics, Philosophy, Physics, Psychology, Public Speaking, Romance Languages, Sociology, or Zoolozy; 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 libral arts college, and the degree of achelor 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; 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, 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 at present in eighteen departments.

College of Agriculture

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agricultural 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.

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

Students in Agriculture who contemplate entering experiment station chemical work should elect the courses offered in Biochemistry covering the qualitative and quantitative chemical analysis of feeds, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

Students desiring to specialize in the botanical or entomological aspects of Forestry may offer freshman and sophomore years in Forestry as equivalent to the first two years' work in Agriculture and register in the curriculum in Botany and Entomology during the junior or senior years.

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

REGULAR CURRICULA AND COURSES OF INSTRUCTION

The courses of instruction are organized as follows:

1. Four-Year Major 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 Journalism, Household Equipment, Social Service, and others formulated to fit individual cases
4. The Two-Year Course in Agriculture
5. Short Courses in Agriculture
6. Farm and Home Week
7. Extension Lecture Courses

THE FOUR-YEAR AGRICULTURAL CURRICULA

The four-year agricultural curricula are designed for those who wish to engage in the business of farming; for those contemplating the special fields of agricultural economics and farm management, agricultural engineering,

agronomy, animal husbandry, bacteriology, biological and agricultural chemistry, botany and entomology, dairy husbandry, dairy technology, horticulture, and poultry husbandry; and for those desiring to enter a field of public service for which training in agriculture is requisite. In addition to the specific fields mentioned above there are many other opportunities open to the college trained man in the agricultural and associated industries.

Certain studies are fundamental to all work in agricultural lines, and for this reason as many of these subjects as possible are offered in the first year, during which the student is necessarily given no choice of subjects. Beginning with the sophomore year each student should start specialization in one of the following major curricula: Agricultural Economics and Farm Management, Agricultural Education, Agronomy, 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 general plan shall be worked out by the head of the department in which the course is taken, and must be approved by the head of the student's major department.

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

FALL SEMESTER

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

SPRING SEMESTER

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

Curriculum for Students Specializing in Agricultural Economics and Farm Management

The curriculum in Agricultural Economics and Farm Management is planned to give the student a broad, comprehensive training in the economic principles of the production and marketing of agricultural products. The training in crops and livestock production, provided in this curriculum, is

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

Sophomore Year

FALL SEMESTER			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 or *Ag 16 Forage and Pasture Crops, 1 †2	2
An 21	Livestock Feeding, 3 †2	4			
Bt 45	General Genetics	3			
Dh 1	General Dairying, 2 †2	3			
Es 1a	Principles of Economics	3			
Mt 3	Military, †3	2	Bc 8	Agricultural Chemistry	2
Pt 3	Physical Education, 2	0	Fm 48	Agricultural Economics	3
			Mt 4	Military, †3	2
			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 or Fm 62 Agricultural Business Accounting, 2 *3	3
By 3	Bacteriology	2			
Eh 5	Technical Composition	2			
Fm 73	Adv. Agr. Economics	2	Fm 76	Agr. Marketing	3
Fm 75	Agricultural Statistics, 1 *6	3		Elective	12
	Elective	10 or 7			
		19			18

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

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Fm 77	Agricultural Finance	2	Fm 74	Farm Management, 3 *3	4
Fm 79	Coöperation in Agriculture	3		† Marketing	2
Fm 87	Agricultural Prices	3		Elective	14 or 12
	Marketing	2			
	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

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

FALL SEMESTER				SPRING SEMESTER			
No.	*Subject*		*Cr. Hours*	*No.*	*Subject*		*Cr. Hours*
Ae	3	Special Methods in Teaching Agriculture	2	Ae	2	Practice Teaching	2
Ag	41	School Shop, †2	1	Ae	6	Special Methods in Teaching Agriculture	2
By	3	Bacteriology	2	Ag	6	Fertilizers	2
Dh	1	General Dairying, 2 †2	3	Ag	16	Forage and Pasture Crops, 1 †2	2
Eh	5	Technical Composition	2	Ag	36	Farm Power, 2 *3	3
		Elective	8	Ag	42	School Shop, †2	1
				Fm	76	Agricultural Marketing	3
						Elective	3
			18				18

Senior Year

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

FALL SEMESTER			SPRING SEMESTER		
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	Bc 8	Agricultural Chemistry	2
Bc 1	Organic Chemistry, 2 †2	3	Fm 48	Agricultural Economics	3
En 21	General Entomology, 2 †4	4	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Pt 4	Physical Education, 2	0
Pt 3	Physical Education, 2	0		Elective	5
		19			19

Junior Year

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

FALL SEMESTER				SPRING SEMESTER			
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 specialize in either mechanical, electrical, or civil engineering as applied to agriculture, or in commercial work in the agricultural engineering field.

A minimum of fifty credits is taken in agriculture to familiarize the student with the various branches of that field. Courses such as mathematics, physics, chemistry, and drafting, which are fundamental to Agricultural Engineering, are required during the first two years. During the junior and senior years the student is allowed considerable freedom in electing courses in that field of engineering in which his interests lie.

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 companies 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
Ms	1	Trigonometry	2	Md	2	Elementary Machine Drafting, †4	2
Ms	3	Algebra	2	Ms	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
Ms	7	Differential Calculus	5	Ms	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

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 Production, 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 Horse Production	2	An 36	Physiology of Domestic Animals	3
An 35	Anatomy of Domestic Animals, 2 †2	3	An 24	Sheep and Swine Production, 2 †2	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

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

No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
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 Judging and Mgt., †2	1
Bt 45	General Genetics	3	By 52	Bacteriology, 1 †4	3
By 1	Bacteriology, †6	3	Dh 2	Butter Making, 1 †4	3
By 3	Bacteriology	2		Elective	7
Dh 5	Market Milk, 3 *3	4			
Eh 5	Technical Composition	2			
		19			17

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Ag 35	Drainage and Land Reclamation, 2 *3	3	Ag 30	Farm Machinery, 2 *3 or	3
An 37	Animal Hygiene	2	Ag 36	Farm Power, 2 *3	
An 55	Animal Nutrition	2	An 38	Animal Pathology	2
An 63	Seminar	1	An 60	Adv. Animal Breeding, 2 *3	3
Dh 3	Cheese Making, 2 *6	4	An 64	Seminar	1
	Elective	6	By 54	Bacteriology (Dairy), 1 †4	3
			Fm 52	Farm Accounting, 1 *6	3
				Elective	3
		18			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 become identified with the dairy equipment and supplies industry.

Sophomore Year

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

FALL SEMESTER				SPRING SEMESTER			
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 Testing, †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	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

No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Bc 41	Biochemistry	3	Bc 60	Physiological Chem.	3
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
Ch 21	Introductory Theoretical Chemistry	2	Ch 22	Introductory Theoretical Chemistry	2
Dh 1	General Dairying, 2 †2 (3) or Elective (3)	3	Gm 22	German for Chemists	3
Gm 21	German for Chemists	3		Elective	2
		20			19

Senior Year

FALL SEMESTER				SPRING SEMESTER			
No.	*Subject*	*Cr. Hours*		*No.*	*Subject*	*Cr. Hours*	
Bc 57	Biological Colloids	3		By 62	Seminar	1	
By 55	Bacteriology (Soil), 1 †4	3		By 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 1	General Chemistry, 2 †4	4	Bt 2	General Botany, 2 †4	4
Eh 1	Composition	3	Ch 2	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	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

No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Bc 9	Animal Biochemistry	2	Bc 60	Physiological Chem.	3
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	2
Ch 21	Introductory Theoretical Chemistry	2	Gm 22	German for Chemists	3
Gm 21	German for Chemists	3		Elective	4
	Elective	4			
		19			18

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 and from the Forestry curriculum at the beginning of the junior year. Others will be guided by the freshman curriculum outlined below. A reading knowledge of French or German is required.

Freshman Year

FALL SEMESTER

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

SPRING SEMESTER

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

Sophomore Year

No.	*Subject*	*Cr. Hours*
Bc 1	Organic Chemistry, 2 †2	3
Bt 33	Forest Botany (Dendrology), 2 †4	4
En 21	General Entomology, 2 †4	4
Gm 1	Elementary German	4
Mt 3	Military, †3	2
Pt 3	Physical Education, 2	0
	Elective	2
		19

No.	*Subject*	*Cr. Hours*
Bc 2	Biochemistry, 3 †4	5
Gm 2	Elementary German	4
Mt 4	Military, †3	2
Pb 2	Public Speaking	2
Pt 4	Physical Education, 2	0
	Elective	5
		18

Junior Year

FALL SEMESTER				SPRING SEMESTER			
No.	*Subject*		*Cr. Hours*	*No.*	*Subject*		*Cr. Hours*
Bt 53	Plant Physiology, 2 †4 or Zo 15 Comparative Anat. 2 †4		4	Bt 56	Plant Pathology, 2 †4 or Zo 16 Comparative Anat., 2 †4		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

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 the additional preparation of a period of intensive graduate study. Prominent among the positions occupied by graduates in horticulture are those of investigators in experiment stations, teachers in colleges and secondary schools, extension agents, and state and Federal employees in the investigational, inspection, and regulatory services.

Although but a single curriculum in horticulture appears in the catalog, tending to place emphasis on a general training in horticulture, the student who wishes to specialize in one division of horticulture may do so by com-

bining a careful selection of elective courses with the completion of one of the following groups as a requirement: (1) fruit culture—Horticulture 1, 9, 10, 53, 55, 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 3, 7, 8, and 15. Problems in Horticulture, Courses 11 and 12, afford still further opportunity for progressive specialization.

Conflicts may largely be avoided by scheduling elective courses in this sequence: sophomore year, Courses 1, 3, 8, 9, and Engineering Drafting 9; sophomore or junior year, Courses 3 and 4; junior year, Courses 7 and 10; junior or senior year, Courses 53, 54, and 55; senior year, Courses 11, 12, 15, 21, 25, and Farm Management 74.

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	Ag 6	Fertilizers		2
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		7		Elective		7
			19				19

Junior Year

No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Ag 35	Land Drainage and Reclamation, 2 *3	3	Bt 56	Plant Pathology, 2 †4	4
Bt 53	Plant Physiology, 2 †4	4	Ht 6	Landscape Gardening, 2 *3	3
By 3	Bacteriology	2	Ht 20	Vegetable Gardening, 2 †2	3
Eh 5	Technical Composition	2		Elective	9
	Horticulture	5			
	Elective	3			
		19			19

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

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Bt 45	General Genetics	3	Ht 52	Seminar	1
Ht 51	Seminar	1		Horticulture	4
	Horticulture	6		Elective	12
	Elective	7			
		17			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

No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Ag 1	Soils, 2 †2	3	Ag 16	Forage and Pasture Crops, 1 †2	2
An 21	Livestock Feeding, 3 †2	4	Bc 2	Biochemistry, 3 †4	5
Bc 1	Organic Chemistry, 2 †2	3	Fm 48	Agricultural Economics	3
Dh 1	General Dairying, 2 †2	3	Ph 2	Incubation and Brooding, 2 †2	3
En 21	General Entomology, 2 †4	4	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Pt 4	Physical Education, 2	0
Pt 3	Physical Education, 2	0		Elective	4
		19			19

Junior Year

FALL SEMESTER			SPRING SEMESTER		
No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
An 35	Anatomy of Domestic Animals, 2 †2	3	Ag 6	Fertilizers	2
Bt 45	General Genetics	3	An 36	Physiology of Domestic Animals	3
By 1	Bacteriology, †6	3	By 52	Bacteriology, 1 †4	3
By 3	Bacteriology	2	Ph 22	Poultry Breeding	2
Eh 5	Technical Composition	2		Elective	8
Ph 3	Exhibition and Production Judging, 1 †2	2			
	Elective	3			
		18			18

Senior Year

No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
Ag 35	Drainage and Land Reclamation, 2 *3	3	Fm 52	Farm Accounting, 1 *6	3
Fm 89	Marketing Poultry Products	2	Ph 26	Poultry Farm Management, 1 †2	2
Ph 25	Poultry Feeding	2	Ph 40	Poultry Diseases	2
Ph 53	Seminar	1	Ph 54	Seminar	1
	Elective	10		Elective	10
		18			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	1	General Chemistry, 2 †4	4	Bt	2	General Botany, 2 †4	4
Eh	1	Composition	3	Ch	2	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 States Forest Service, and other Federal bureaus employing foresters. Owing to the wide field covered by the curriculum, it offers an excellent basis for a broad and liberal education.

The first two years are devoted very largely to fundamental and 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	Forest Botany (Dendrology), 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	Forest Botany, 2 *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		Elective		11
	Elective		6				
			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 Technology, 2 *3	3
Fy 9	Wood Preservation	1	Fy 52	Policy and Economics	4
Fy 51	Regional Silviculture	2	Fy 56	Forest Management	2
Fy 53	Forest Finance, 3 †2	2		Elective	6
Fy 55	Forest Management	2			
	Last 9 weeks				
Fy 41	Practice of Forestry, *48	9			
		18			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. It includes basic training in the artificial propagation of fish and game, and conservation of non-game species.

This curriculum prepares men for management and extension work in Federal and state departments concerned with the utilization of natural resources, for teaching in colleges and universities, and for research and experimental work in Federal, state, and college experiment stations. Graduates

are eligible for Civil Service examinations prepared by the Federal Government.

The first two years are devoted largely to fundamental and 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	Forest Botany (Dendrology), 2 †4	4
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
		17

SPRING SEMESTER

No.	*Subject*	*Cr. Hours*
Bc 4	Organic Chemistry, 3 †2	4
Bt 36	Taxonomy, 2 †4	4
En 26	Entomology, 2 *3	3
Mt 4	Military, †3	2
Ph 4	Incubation and Brooding of Game Birds, 1 †2	2
Zo 10	Ornithology, 2 †4	4
Pt 4	Physical Education, 2	0
		19

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*
Bc 41	Biochemistry	3
Bt 41	Biotic Relationships, 2 *3	3
Bt 45	Genetics	3
By 3	Bacteriology	2
Zo 13	Mammalogy, 2 †4	4
	Elective	4
		19

No.	*Subject*	*Cr. Hours*
By 2	Bacteriology, †6	3
Eh 6	Technical Composition	2
Fm 48	Agricultural Economics	3
Fy 8	Silviculture, 3 *3	4
Fy 10	Nursery Practice, *6	1
Zo 14	Animal Parasitology, 2 *3	3
	Elective	3
		19

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
	First 9 weeks		Fy 52	Policy and Economics	4
An 39	Disease and Parasite Control (in Wildlife), 3 *3	2	Zo 20	Fish Management, 2 *3	3
Fy 55	Forest Management	2	Zo 22	Animal Ecology	3
Fy 57	Game Management	2		Elective	9
Zo 19	Fish Management	1			
Zo 21	Animal Ecology	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 37 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 SEMESTER			
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
Gc 1	Intro. to Soc. Sci.		3	Gc 2b	Intro. to Soc. Sci.		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
Pe 1	Physical Education, 2		0	Pe 2	Physical Education, 2		0
			16				16

Sophomore Year

No.	*Subject*		*Cr. Hours*	*No.*	*Subject*		*Cr. Hours*
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	Human 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 10	Home Care of Sick		1
Sy 1	General Sociology		3	He 4	The House, 2 †2		3
Sequence and Elective			10	Sequence and Elective			10
			16				16

Senior Year

FALL SEMESTER			SPRING SEMESTER		
No.	*Subject*	*Cr. Hours*	*No.*	*Subject*	*Cr. Hours*
He 11	Household Management	2	He 12	Senior Survey	1
Ee 5a	Household Equipment	3	*He 22	Household Admin.	3
Sequence and Elective		11	He 54	Family Econ. 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. Students who are accepted for Course 75 (76), and complete it successfully, qualify for the vocational certificate without further experience.

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 56	Home Economics Education	3
He 57a	Food Preservation	1
He 57b	Demonstrations	1
He 63	Nutrition	2
He 66	Dietetics	2
He 71 (72) a or b	Supervised Teaching	2

*He 73, 74	Supervised Field Teaching	4
He 78	Advanced Home Economics Ed.	2
He 85 (86)	School Lunch	1
Pb 1 (2)	Public Speaking	2

* He 75 (76) Apprentice Teaching, may be substituted by permission.

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 1, Pj 2, Pj 4, Summer Project, and He 18 Applied Design are also recommended.

Extension Teaching. 30-32 hours.

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

Bc 5	Biochemistry	4
Eh 28	Departmental or Feature Writing	3
He 7; 8 (8a)	Clothing Construction Problems	2-4
He 45 (46)	Advanced Clothing Construction	9
He 47 (48)	Fundamentals of Costume Design	1
He 49 (50)	Clothing Patterns	2
He 51	Clothing Economics	1
He 52	Draping	2
He 56	Home Economics Education	3
He 57a	Food Preservation	1
He 57b	Demonstration	1
He 63	Nutrition	2
He 65	Dietetics	2
He 81	Institutional Foods	3
Pb 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. 22 hours.

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

Bc 5	Biochemistry	4
*Bc 53 or 60	Biochemistry	3
Ed	Education	3
He 63 (64)	Nutrition	2
He 65	Dietetics	2
*He 68	Nutrition in Abnormal Conditions	2
*He 81, 84, 87	Institutional Management	6

*For students preparing for commercial foods positions or for research, 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 (18)a	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. 20 hours.

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

Bc 5	Biochemistry	4
He 57c (58c)	Nursery School Meals	1
He 59 (60)	Special Problems in Child Development	2
He 63 (64)	Nutrition	2
He 65	Dietetics	2
Py 67, 71, 72, 81	(Six hours selected)	6
Sy 81	Marriage and The Family	3

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

FALL SEMESTER		SPRING SEMESTER	
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 159.

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 homemaking pursuits and who desire to devote a short time during the winter months to the securing of definite instruction along the line of their special interests.

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

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

FARM AND HOME WEEK

There are a large number of people who cannot come to the college for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, "Farm and Home Week" is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one or more sessions are given up to problems of rural betterment. Considerable emphasis is placed on agricultural marketing

problems peculiar to Maine. The homemaking program includes the various phases of home management and is of interest to both rural and urban homemakers. Dates and programs may be secured each year by addressing the College of Agriculture.

THE EXTENSION SERVICE

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

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

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

Extension Lecture Courses

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

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

Correspondence Service

It is recognized that a letter is a poor substitute for a personal conference in dealing with perplexing problems with which people are constantly confronted in the vocations of agriculture, forestry, and home economics, but the teachers in all departments of the College are always ready to furnish information dealing with these problems and thus render the greatest possible service to the people of the State. The College of Agriculture, therefore, welcomes inquiries on practical agricultural, forestry, and home economics topics. Extension bulletins dealing with different phases of these subjects are published at frequent intervals throughout the year and will be sent without cost to persons applying for them. A list of bulletins and circulars available for distribution will be forwarded on request.

Departments of Instruction

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

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

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 number (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

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

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

MR. JONES

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

MR. JONES

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

65. Forest Accounting.—This course includes accounting methods for the different types of logging and lumbering operations. It involves 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. JONES

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

75. Agricultural Statistics.—Course consists of practical problems in frequency distribution; averages; measurements of dispersion; measurements of trends; seasonal variations and cyclical fluctuations; simple index numbers; simple linear and non-linear correlations; and standard and probable errors. Classroom, *one hour a week;* laboratory, **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 condi-

tions in the various farming sections of Maine. *Two hours a week. Two credit hours.* MR. MERCHANT

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

***79. Cooperation in Agriculture.**—Principles involved in coöperative organizations including the more important factors affecting the efficiency and success of coöperative organization, such as volume of business, capital and finance, management, and price policies. The history, organization, and management of coöperative 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; demand; 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. NIEDERFRANK

***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, 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 con-

---

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

sideration will be given to areas of production; grades; containers; transportation; storage; market channels; sales methods; foreign trade; demand; price; Federal participation; and costs of marketing. *Two hours a week. Two credit hours.* MR. DOW

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 study along some line in which he has a special interest. Prerequisite, Course 74. *Credit, arranged.* MR. JONES

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

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, resettlement 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.**—Both majors and minors in agricultural education are expected to do directed teaching in an approved school, either during or at close of the spring semester of the junior year; or immediately preceding or during the fall semester of the senior year; or during the spring semester of the senior year. *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

---

* 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; ASSISTANT PROFESSOR SWIFT; ASSISTANT PROFESSOR RALEIGH; ASSISTANT PROFESSOR LIBBY; ASSISTANT PROFESSOR 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

17s. Field Work in Seed Potato Production.—Two-week summer course designed to give those students interested in seed potato production special applied instruction in the identification of important potato diseases and insects. This course to be held at the Maine Agricultural Experiment Station Farm at Presque Isle, early in July. Prerequisites, Course 15, and permission to register. **Forty-eight hours a week. Two credit hours.*

MR. LIBBY

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

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. Drainage 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

---

*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.

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.* MEMBERS OF THE DEPARTMENTAL STAFF

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

ANIMAL INDUSTRY

PROFESSOR DORSEY; ASSOCIATE PROFESSOR CAIRNS; ASSISTANT PROFESSOR HALL; ASSISTANT PROFESSOR WITTER; MR. POPE; MR. OSBORNE

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.—A laboratory course in which the individual student gets experience in handling livestock and preparation of stock for show ring and market. In so far as it is practicable, visits will be made to livestock farms. †*Two hours a week. One credit hour.* MR. HALL

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

39. 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, **three 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

Dairy Husbandry and Dairy Technology

1. General Dairying.—Milk, its secretion, composition, properties, pasteurization, and separation. Dairy practices in producing and handling milk and cream. Dairy equipment; use of common dairy machinery. Testing dairy products for fat (Babcock method), acidity, total solids, and common adulterations. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. DORSEY

2. Butter Making.—Creamery butter industry. Starter making, cream ripening, churning, and preparing butter for market. Prerequisite,

---

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

Course 1. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* Mr. Pope

3. Cheese Making.—Manufacture and curing of various types of cheese, including cheddar and soft cheeses adapted to the New England trade. The laboratory work requires six consecutive hours. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, **six hours a week. Four credit hours.* Mr. Dorsey

4. Condensed Milk.—Manufacture of unsweetened and sweetened condensed milk, and milk powder. Sanitary control of milk supply, factory methods, defects in products, and economic phases of the industry. Prerequisite, Course 1. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* Mr. Dorsey

5. Market Milk.—The market-milk industry from standpoints of production, supply, sanitary control, transportation, processing, delivery, organization, and economic aspects. Prerequisite, Course 1. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.* Mr. Pope

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. Pope

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 Depart-

ment of Animal Industry. †*Two or four hours a week. One or two credit hours.* MR. DORSEY, MR. POPE

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

PROFESSOR HITCHNER; PROFESSOR SMITH; ASSISTANT PROFESSOR HIGHLANDS; ASSISTANT PROFESSOR PEDLOW; MR. MUNDT; MR. FRY

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. MUNDT

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. MUNDT

3. Bacteriology.—A lecture course open to all students. It must be elected by students taking Course 1. Subjects considered include: the history of bacteriology; classification and biological characteristics of bacteria; bacteria in air, water, soil, and dairy products; relation of bacteria to health and disease; and immunity. *Two hours a week. Two credit hours.*

MR. HITCHNER

5. Bacteriology.—An abbreviated laboratory course in general bacteriology. Practical demonstrations of the relation of bacteria to disease,

sanitation, food handling, and other economic phases are given. The aim is to develop appreciation of bacteriological technic. Course 3 must be taken in conjunction. †*Two hours a week. One credit hour.* MR. HIGHLANDS

10. Sanitation and Public Health.—General consideration of the relationship between the health of the individual and environment. Special emphasis placed on communicable diseases and their control. Sanitary programs for the home and community will be considered, such as sewage disposal, safe water supplies, industrial sanitation, and dust menaces. Prerequisite, Course 3. *Two credit hours.* MR. HIGHLANDS

52. Bacteriology.—Physiological, morphological, biochemical, and serological activities of bacteria; isolation and identification of pathogens together with animal inoculation and serological tests. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

54. Bacteriology (Dairy).—Effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemic tests for quality of milk; and study of effect of separators, clarifiers, coolers, etc., on the bacterial content of milk and cream. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

55. Bacteriology (Soil).—A theoretical and experimental consideration of the relationship of microörganisms and soil fertility. A study of the factors which influence the changes produced through microbial action. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week;* laboratory, †*four hours a week. Three credit hours.* MR. HITCHNER

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 consider-

able 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

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

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 wth 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. Prerequiste, 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. *Three hours a week. Three 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 PROFESSOR DIRKS; ASSOCIATE PROFESSOR STEINBAUER; MR. OGDEN; MR. PIERCE; MR. GORHAM

Botany

1 (2). General Botany.—Fundamental principles of plant life, with special emphasis on life processes. Required of all students in the College of Agriculture excepting those registered in Agricultural Engineering and

Home Economics. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

Mr. Steinmetz, Mr. Steinbauer, Mr. Ogden, Mr. Pierce, Mr. Gorham

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. Prerequisites, Course 1 (2) and one year of chemistry. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Steinbauer

33. Forest Botany (Dendrology).—Classroom and field work on characteristics, habits, and classification of trees and native shrubs of North America. Prerequisite, Course 1 (2). Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Ogden, Mr. Pierce

34. Forest Botany (Physiography).—A comprehensive study of range, distribution, and soil requirements of commercial timber trees of the United States. Prerequisite, Course 33. Classroom, *one hour a week;* laboratory, †*three hours a week. Two credit hours.* Mr. Ogden

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

Mr. Steinmetz, Mr. Pierce

36. Taxonomy.—Flora of the field, woods, and stream. Prerequisite, Course 33. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* Mr. Ogden

41. Biotic Relationships.—Interrelationships of plants and animals with emphasis upon fungi and lichens, and mosses. 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. Open to students in Chemical Engineering. **Three hours a week. One credit hour.* Mr. Ogden

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. Admission by arrangement with the instructor. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.* MR. PIERCE

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

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). Given in 1941. 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). Classroom, *two hours a week;* laboratory and field, †*four hours a week. Four credit hours.* MR. STEINMETZ

Entomology

21. General Entomology.—Fundamental facts and principles of insect life, principles of control, characteristics of the orders and families, and the relations of insects to plants and animals. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

22. Forest Entomology.—Principles of insect life with special reference to shade and forest trees. Structure, metamorphosis, classification, and methods of control. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

23. Taxonomy of Insects.—A general course on insects with emphasis upon identification and classification. Methods of collecting, rearing, and

mounting insects. Prerequisite, one year of biology. Consent of instructor required. 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. The honeybee, its activities and habits; races of bees; diseases and enemies; and the production and marketing of honey. Given 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 shade and forest trees and to forest products. Prerequisite, Course 21 or 22. Given in 1940. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. DIRKS

49. Economic Entomology.—An intensive study of the important insects of the orchard, garden, and farm; their life histories and habits, injuries, and methods of control. Prerequisite, Course 21 or 22. Consent of instructor required. 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 must be obtained before registering for this work. *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 ALDOUS; ASSOCIATE PROFESSOR ASHMAN; ASSISTANT PROFESSOR CHAPMAN; ASSISTANT PROFESSOR CURTIS; 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. Textbook and lectures. Forestry sophomores only. *Two hours a week. Two credit hours.* MR. CHAPMAN

4. *Administration and Protection.*—Problems in the administration of national, state, and private forest enterprises. Forest improvements, including trails, telephone lines, and look-out towers. Forest fire control. *Four hours a week. Four credit hours.* MR. 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 35s. 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

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 Technology.—Identification and classification of the commercial woods of the United States based on simple lens inspection; the technical qualities of various species and their uses in the arts and trades. Prerequisites, Botany 33 and 34. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* 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 of wild game for recreational use. Field studies in game-census work, artificial restocking, and ecological factors controlling game populations. First half-semester. Classroom, *four hours a week. Two 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. ALDOUS

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

45s. General Ecology.—Course covering the field study of flora and fauna in relation to environment. Field work, **twenty-four hours a week. Three credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

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

PROFESSOR GREENE; PROFESSOR SWEETMAN; ASSISTANT PROFESSOR MUSGRAVE; ASSISTANT PROFESSOR CONEY; ASSISTANT PROFESSOR McCARTHY; ASSISTANT PROFESSOR NESBITT; MRS. SNYDER; MISS BORGMAN; MISS KELLEY; 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.* MISS KELLEY

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 housing 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. Prerequisites, one year of chemistry; for Home Economics students, Chemistry 5 and Biochemistry 4. Classroom, *two hours a week;* laboratory, †*four hours a week. Four credit hours.*

MRS. SWEETMAN, MRS. 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.*

MISS KELLEY

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.*

MISS KELLEY

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 BORGMAN

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 play school. For Home Economics students. 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 management, 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

25. Economics of the Household.—Planning personal and family expenditures with emphasis on problems of the consumer-buyer. For Arts and Sciences students above freshman rank only. *Two hours a week. Two credit hours.* MISS GREENE

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 consists of observation of play 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. SWEETMAN, 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.*

MISS KELLEY

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 KELLEY

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 1940 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 or parallel, Course 11. *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, selecting and organizing teaching units, and choosing effective methods, 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 periods of European history to the present time. Lectures, reading, and collection of illustrations. *One hour a week. One credit hour.* MISS MUSGRAVE

63 (64). Nutrition.—Principles involved in normal nutrition at all ages. Prerequisite, Biochemistry 5, or Chemistry 51, 52. *Two hours a week. Two credit hours.* MRS. SWEETMAN

65 (66). Dietetics.—Calculation and preparation of dietaries for normal individuals at all ages. Prerequisite for Home Economics students, a summer project in foods. †*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. Laboratory consists of demonstrations of nutritional deficiencies in animals. Prerequisite, Course 63. *Two or three 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

75 (76). Apprentice Teaching.—Apprentice teaching in high school under the immediate supervision of a qualified local home economics teacher approved by the State Department of Education. Open only by selection in coöperation with the State Department of Education, to students chosen on the basis of their own request, their academic and personnel records, and the success of their teaching in Course 71. Students who complete this course successfully receive a vocational certificate. *A full semester. Sixteen credit hours.* MISS CONEY

78. Advanced Home Economics Education.—A study of curriculum problems, budget, equipment, and classroom management. *Two hours a week. Two credit hours.* MISS CONEY

81 (82). Institutional Foods.—Problems involved in the feeding of groups on a commercial basis, as menu planning, food buying, the application of food preparation principles to large-quantity cookery, use of large-scale equipment, quality standards. A faculty dining room is operated as a laboratory for the course. Prerequisites, Courses 5 and 6. Classroom, *one hour a week;* laboratory, **six hours a week. Three credit hours.*
MISS MCCARTHY

84. Institutional Foods Management.—Organization and management. Personnel management. Cost control. Equipment. Trips to inspect equipment. 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 horus.*
MISS MCCARTHY

91. Costume Design.—Problems in dress design for various persons and occasions. Designing chiefly in pencil and water color. Given in 1939 and alternate years. Prerequisite, 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 wee*
Three credit hours. MISS MUSGRA

101 (102). Advanced Nutrition.—Methods of research in nutriti
and recent advances in the field. Prerequisite, Course 63. Offered if suf
cient demand. *Two or three credit hours, as arranged.* MRS. SWEETMA

103 (104). Advanced Foods.—Methods of research in food prepar
tion and recent advances in the field. Prerequisites, Course 6 and Biocher
istry 5. Offered if sufficient demand. *Two or three credit hours, as arrange*
MRS. SWEETMA

125. Graduate Thesis.—In Home Economics or Home Economi
Education. *Credit, arranged.* MISS GREENE, MRS. SWEETMAN, MISS CON

HORTICULTURE

PROFESSOR WARING; ASSISTANT PROFESSOR CLAPP;
ASSISTANT PROFESSOR RILEY

General Courses

2. General Horticulture.—An introductory treatment of practices and related principles basic to the production of fruits, vegetables, and flowers, and to ornamental horticulture. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. WARING

4. Plant Propagation.—Methods of propagating plants. Current literature on propagation is reviewed. A report on methods applicable to a particular branch of horticulture is required. Given in 1939-40 and alternate years. First nine weeks. Classroom, *two hours a week;* laboratory, †*four hours a week. Two 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 in selected or assigned horticultural subjects, preparation of abstracts and papers, classroom presentation and discussion. Staff members and invited guests participate. *One or two hour a week* by arrangement. *Credit, arranged.* 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, *one hour a week;* laboratory, *†two hours a week. Two credit hours.*
MR. CLAPP

Pomology

1. Fruit Handling.—The commercial apple industry and its methods in Maine and competing regions, with minor attention to other tree fruits. Laboratory exercises include grading and packing and visits to commercial-scale orchards, packing houses, and storage plants. Classroom, *two hours a week;* laboratory, *†two hours a week. Three credit hours.* MR. WARING

9. Fruit Judging.—The selection of fruit, chiefly apples, for exhibition; the identification of varieties; and judging. The intensive training should ordinarily lead to participation in an intercollegiate apple-judging contest. Open to any interested student. **Six hours a week,* first nine weeks. *One credit hour.* MR. WARING

53. Systematic Pomology.—A survey of the species and important cultivated varieties of fruits and nuts, emphasizing botanical status as well as pomological classification, distribution, and use. Given in 1940-41 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.—The plant materials used in landscape gardening, emphasizing identification, nomenclature, and the characteristics upon which their special values for the purpose are based. Classroom, *one hour a week;* laboratory, **three hours a week. Two credit hours.* MR. CLAPP

5. Recreational Landscaping.—Materials and principles of landscape design with particular reference to recreational projects and roadside improvement. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. CLAPP

6. Landscape Gardening.—Principles of landscape design with particular reference to the home grounds. Observational trips to Bangor and Old Town may be required. 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

Graduate Courses

101. 102. Horticultural Investigations.—*Credit, arranged.*
MEMBERS OF THE DEPARTMENTAL STAFF

103. 104. Research Methods.—Application of scientific method and equipment to the solution of horticultural problems and preparation of manuscript for publication. *Usually, as arranged, two credit hours.*
MR. WARING

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

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

4. Incubation and Brooding of Game Birds.—Principles of incubation and brooding; study of equipment and practical methods of brooder and range management. Classroom, *one hour a week;* laboratory, †*two hours a week. Two credit hours.* MR. SMYTH, MR. GARDNER

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. In so far as is practicable, visits will be made to poultry farms. Prerequisites, Courses 1, 2, 3, and 5. Classroom, *one hour a week;* laboratory, †*two hours a week. Three credit hours.* MR. GARDNER

****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 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.

---

* The description of this course also appears under the Department of Animal Industry.

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-steel work. **Three hours a week. One credit hour.* MR. DAVEE

Fruit Handling.—Picking, packing, grading, storing, shipping, and marketing of fruit, particularly the apple. A survey is made of the principal apple producing regions and of the general status of the industry. A small amount of systematic study of fruits and some fruit judging are included. Classroom, *two hours a week;* laboratory, †*two hours a week. Three credit hours.* MR. RILEY

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, pick-

ing, 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. POPE

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. Labora-

tory 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 hours a week. Four credit hours.* MR. HALL

English.—A continuation, including reports, abstracts, and oral composition based on agricultural material. *Two hours a week. Two credit hours.* 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 given to acquaint the student with the machinery adapted to farm use. Classroom, *two hours a week;* laboratory, **three hours a week. Three credit hours.* MR. MEYER

Marketing Farm Products.—A course dealing with the economic problems in marketing farm products, with particular attention given to marketing Maine products, such as dairy and poultry products, apples, and potatoes. Time is also given to a study of the principles and methods of coöperative marketing. *Three hours a week. Three credit hours.* MR. 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 preëminently for men and women of critical intelligence, broad and sympathetic understanding of human needs, and determination of purpose. The College of Arts and Sciences seeks, therefore, to train and inspire loyal and competent citizens to meet the demands of the present, 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 all students who enter with advanced standing. Students must make up all entrance requirements before registering as juniors. Those who transfer from other colleges must make them up within a year.

GRADUATION REQUIREMENTS

The work 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. All women in the College take, in their freshman year, Elementary Hygiene, for which two credits are given.

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.

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 four years of Latin normally meet the requirement by completing an additional year in either of these languages. In general, whatever the choice, it is expected that the requirement will be met before the beginning of the third year. Courses in language should be taken continuously until the examination has been passed.

Reading Tests in Romance Languages

1. For most students a reasonable preparation for taking a reading test in a Romance language shall be considered to be four years of work in high school or two years of work in college or the equivalent.

2. Students are not ordinarily expected to apply for a reading test more than twice in one year.

3. A reading test is given regularly early in January and early in May before the winter and spring registrations respectively.

4. In addition, a reading test is given in the latter part of the afternoon of the day devoted to upperclass registration in the fall especially for the following classes of students:

a. Transfer students from Westbrook and other institutions who have not taken such a test previously.

b. University of Maine students previously in residence who for some reason did not take the May test or who, having failed it, have made further preparation.

c. Freshmen, wishing to be examined in French, (1) who have done more than three years of high-school work in the language, (2) who are of French-Canadian stock or have lived at some time in a French environment, (3) who can show evidence of having privately read to a considerable extent books and periodicals outside of those required in the course, (4) or who have unusual scholastic records and wish to be exempted from a language course to have their program free for other work.

d. Freshmen, wishing to be examined in Spanish, whose previous record based on study and environment is deemed adequate by the Department.

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 and English 2 or 18 are definitely required unless the student is admitted by the department to a more advanced course.

II. **Foreign Language:** Greek, Latin, French, Spanish, German. Students who pass a reading test in a foreign language may be excused from this requirement.

III. **Social Studies:** Social Science 1, 2, American History, Ancient Civilization, 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 in this capacity by a faculty committee of freshman-sophomore advisers whose purpose is to give each student individual guidance and attention during this period. A member of this committee will be assigned to each student as his adviser early in his freshman year.

THE LAST TWO YEARS

At some time during the second semester of the sophomore year, the student, in conference with the Dean, selects his major subject or field of chief academic interest, and outlines with his major instructor a tentative curriculum for his two remaining years. This special field is chosen without reference to departmental boundaries, though it may coincide with some department or special curriculum in the College. The department in which the major subject chiefly falls becomes for administrative purposes the student's major department, and the head of that department is his major instructor. The latter is responsible for the student before the faculty and must approve the student's registration.

At the same time the student selects his major adviser. This is regularly either the major instructor or another member of the department whom he and the student agree upon, subject to the approval of the dean. Besides assisting the student in outlining his curriculum, the major adviser also directs his pursuit of it, recommends or approves all changes made in it, and acts as the student's registering officer.

The major curriculum is the nucleus of related courses selected by the student as representing his chief field of interest or major subject. It is restricted to a maximum of twenty-four and a minimum of eighteen hours in the junior and senior years, but it is expected that the remaining courses will be chosen with reference to their affinity with it, except as certain otherwise unrelated courses are recognized as desirable for all students on account of their cultural or practical value. No elementary or introductory courses may be included in the major curriculum, though such exploratory courses may be taken, with the major adviser's approval. In general, it is assumed that upperclass students will be engaging themselves with courses of an advanced nature which will toughen their intellectual fibre and furnish a real test of their abilities.

Seniors shall be required to continue work in their major subject through their senior year.

COMPREHENSIVE EXAMINATIONS

In the spring semester of the senior year, major students in some departments take comprehensive examinations in their major subject. The purpose of these examinations is to provide the student with an opportunity to demonstrate his knowledge of the salient features of his general field of study. It aims to make clear the unity of the field as a whole. It seeks definitely to counteract the easy tendency to separate courses one from another. It is, therefore, designed in such a way as to develop perspective and to encourage organization of materials as well as accuracy and range of knowledge. The student is thus able to evaluate his ability in the field of his major interest and to make a smooth transition to his professional and graduate work. 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 by 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.

The Honors program is divided into two parts: (1) Preparation for Honors Work, in the freshman and sophomore years, and (2) Honors Work, in the junior and senior years. Descriptions of the Honors Courses will be found on page 212.

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 prescribed. The student's own interests and aptitudes will naturally determine to some extent his choice of subjects. Though only a few of the more important curricula in the College of Arts and Sciences are here given, there are a large number of others which may be procured by writing to the Dean of the College.

Specimen Major Curriculum for Premedical Studies

Freshman Year

FALL SEMESTER		Hrs.	SPRING SEMESTER		Hrs.
Eh 1	English	3	Eh 2	English	3
*Gm 1	German	4	*Gm 2	German	4
Mt 1	Military Training	1½	Mt 2	Military Training	1½
My 1	Modern Society (or Cv 1 Western Civilization)	3	My 2	Modern Society (or Cv 2 Western Civilization)	3
Pt 1	Physical Education	—	Pt 2	Physical Education	—
†Zo 3	Animal Biology	4	†Zo 4	Animal Biology	4

* Two years of a modern foreign language, preferably German, are usually required for medical school admission, and should lead to a reading knowledge of the subject.

† Candidates who plan to enter medical school in two years and those who have a special interest in chemistry should take General Chemistry during the first year, with or without General Zoology. To fulfill the requirements of the American Medical Association, Organic Chemistry and Physics must be taken the second year. These, together with Comparative Anatomy or General Zoology, if the latter was not taken the first year, make a very heavy program. A four-year program leading to a B.A. degree is thus desirable and in most cases necessary. Candidates for admission to medical school should therefore be familiar with the requirements of several medical chools before planning their first-year program.

Sophomore Year

		Hrs.			Hrs.
Ch 1a	General Chemistry	4	Ch 2a	General Chemistry	4
Gm 3	German	3	Gm 4	German (‡Gm 16, Scientific German)	3-2
My 3	Modern Society (or Cv 3 Western Civilization)	3	My 4	Modern Society (or Cv 4 Western Civilization)	3
Mt 3	Military Training	2	Mt 4	Military Training	2
Pt 3	Physical Education	—	Pt 4	Physical Education	—
Zo 15	Comparative Anatomy	4	Zo 16	Comparative Anatomy	4

Junior Year

FALL SEMESTER	Hrs.	SPRING SEMESTER	Hrs.
Ch 51 Organic Chemistry	5	Ch 52 Organic Chemistry	5
Cp 39 The Literature of Social Change (or Eh 45 Contemporary Literature)	3	Cp 40 The Literature of Social Change (or Eh 46 Contemporary Literature)	3
Ps 1a General Physics	4	Ps 2a General Physics	4
Py 1 General Psychology	3	Py 2 General Psychology	3

Senior Year

	Hrs.		Hrs.
Bt 45 Genetics (or Social Science)	3	Ch 40 Quantitative Analysis	4
Ch 31 Qualitative Analysis	5	Elective (preferably Social Science)	3-5
Zo 37 Physiology	4	Zo 18 Vertebrate Embryology	4
Zo 41 Histology	3	Zo 38 Physiology	4

‡ With the permission of the German Department.

Five-Year Curriculum in Liberal Arts and Nursing

College of Arts and Sciences in coöperation with
Central Maine General Hospital, Lewiston
Eastern Maine General Hospital, Bangor
Maine General Hospital, Portland

First Year

University of Maine

	Hrs.		Hrs.
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

FALL SEMESTER	Hrs.	SPRING SEMESTER	Hrs.
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 67 Child Psychology	3	Py 72 Mental Hygiene	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

	Hrs.		Hrs.
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	Electives	5-6
Electives	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 "
Electives	142-156 "

Specimen Major Curriculum for Pre-Legal Studies

Freshman Year

FALL SEMESTER			Hrs.	SPRING SEMESTER			Hrs.
Eh	1	Freshman Composition	3	Eh	2	Freshman Composition	3
Hy	3	United States History	3	Hy	4	United States History	3
Mt	1	Military Training	1½	Mt	2	Military Training	1½
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

Sophomore Year

			Hrs.				Hrs.
Eh	7	Second-Year Composition	3	Eh	8a	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

FALL SEMESTER	Hrs.	SPRING SEMESTER	Hrs.
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 and Local Government	3
Hy 17 History of England	3	Hy 18 History of England	3

Senior Year

	Hrs.		Hrs.
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 History 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
Py 75 Social Psychology	3	Sh 4 Debate	2
Sh 1 Speech	2		

* To be continued until the student has passed his reading test.

Curriculum in Journalism

Freshman Year

FALL SEMESTER		Hrs.	SPRING SEMESTER		Hrs.
Cv 1	Western Civilization (or Hy 5, Survey of Western Europe)	3	Cv 2	Western Civilization (or Hy 6, Survey of Western Europe)	3
Eh 1	Freshman Composition	3	Eh 2	Freshman Composition	3
Mt 1	Military Training (or Pe 21, Hygiene)	2-1½	Mt 2	Military Training	1½
My 1	Modern Society (or Hy 3, United States History)	3	My 2	Modern Society (or 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
Pt 1	Physical Education	—	Pt 2	Physical Education	—

Sophomore Year

		Hrs.			Hrs.
Cv 3	Western Civilization (or Hy 5, Survey of Western Europe)	3	Cv 4	Western Civilization (or Hy 6, Survey of Western Europe)	3
Eh 3	History of English Literature	3	Eh 4	History of English Literature	3
Eh 23	Newswriting	3	Eh 24	Newswriting	3
Mt 3	Military Training	2	Mt 4	Military Training	2
My 3	Modern Society (or Hy 3, United States History)	3	My 4	Modern Society (or Hy 4, United States History)	3
Pl 3	Philosophy (or foreign language)	3	Pl 4	Philosophy (or foreign language)	3
			Pt 4	Physical Training	—
Pt 3	Physical Training	—		Elective	2-3
	Elective	2-3			

Junior Year

FALL SEMESTER	Hrs.	SPRING SEMESTER	Hrs.
Eh 25 The Newspaper in the 20th Century	3	Eh 28 Departmental or Feature Writing	3
Eh 45 Contemporary American Literature	3	Eh 46 Contemporary European Literature	3
Gt 33 Municipal Government and Administration	3	Gt 32 State Government	3
Hy 67 American Diplomacy	3	Hy 68 American Diplomacy	3
Elective	3	Elective	3

Senior Year

	Hrs.		Hrs.
Eh 79 The Newspaper as a Factor in International Relations	3	Eh 30 The Country Newspaper	3
Eh 57 Shakespeare	3	Eh 58 Shakespeare	3
Gt 73 International Relations	3	Gt 74 International Relations	3
Es 55, 69, 71, or 53	3	Es 54, 56, 72, or 60	3
Electives	3	Electives	3

Specimen Major Curriculum for Business Administration*

Freshman Year

	Hrs.		Hrs.
Cv 1 Western Civilization	3	Cv 2 Western Civilization	3
Eh 1 Freshman Composition	3	Eh 2 Freshman Composition	3
Ms 23 Mathematical Analysis or Ps 3 Descriptive Physics	3	Ms 24 Mathematical Analysis or As 10 Descriptive Astronomy	3
Mt 1 Military Training	1½	Mt 2 Military Training	1½
My 1 Modern Society	3	My 2 Modern Society	3
Pt 1 Physical Training	—	Pt 2 Physical Education	—
†Foreign Language	3-4	†Foreign Language	3-4

* For further information concerning requirements and courses in Business Administration, see page 190.

† To be continued until the student has passed his reading test.

Sophomore Year

FALL SEMESTER		Hrs.	SPRING SEMESTER		Hrs.
Ba 9	Accounting	3	Ba 10	Accounting	3
Cv 3	Western Civilization	3	Cv 4	Western Civilization	3
Gt 1	Introduction to Government	3	Gt 1	Introduction to Government	3
Mt 3	Military Training	2	Mt 4	Military Training	2
My 3	Modern Society or Es 1a Principles of Economics	3	My 4	Modern Society or Es 2a Principles of Economics	3
Pt 3	Physical Education	—	Pt 4	Physical Education	—
Py 1	General Psychology	3	Py 2	General Psychology	3

Junior Year

		Hrs.			Hrs.
Ba 51	Corporation Finance	3	Ba 64	Investments and Investment Banking or Es 64 International Trade and Finance	3
Ba 53	Money and Banking	3	Es 52	Business and Government	3
Es 73	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

		Hrs.			Hrs.
Ba 55	Business Law	3	Ba 56	Business Law	3
Ba 59	Business Management and Policy	3	Ba 60	Personnel Management	3
Eh 25	The Newspaper in the 20th Century	3	Ba 96	Seminar	2
Eh 39	Literature of Social Change	3	Eh 40	Literature of Social Change	3
Es 71	Public Finance	3	Es 62	Business Cycles or Es 76 Public Utilities	3
			Gt 32	State Government	3

Specimen Major Curriculum for Pre-Professional Preparation for Social Service Work

Freshman Year

FALL SEMESTER		Hrs.	SPRING SEMESTER		Hrs.
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	—	Pb 2	Public Speaking	2
Zo 3	Animal Biology	4	Pe 2	Physical Education	—
Zo 5	Hygiene (girls)	2	Zo 4	Animal Biology	4
	Foreign Language	3-4		Foreign Language	3-4

Sophomore Year

		Hrs.			Hrs.
Cp 39	The Literature of Social Change (or Eh 45 Contemporary Literature)	3	Cp 40	The Literature of Social Change (or Eh 46 Contemporary Literature)	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
Py 1	General Psychology	3	Py 2	General Psychology	3
Sy 1	Principles of Sociology	3	Sy 2	Principles of Sociology	3
	*Foreign Language		Sy 20	The Field of Social Work	3
				*Foreign Language	

* If reading test has not been passed.

Junior Year

		Hrs.			Hrs.
Eh 71	American Literature	3	Eh 72	American Literature	3
Es 33	Labor Problems	3	Sy 52	Child Welfare	3
Sy 41	Marriage and the Family	3	Sy 62	Criminology	3
Sy 61	Social Pathology	3	Sy 84	Race Relations	3
Sy 65	Urban Sociology	3		Electives	

Senior Year

FALL SEMESTER		Hrs.	SPRING SEMESTER		Hrs.
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		Electives	5
	Electives	2			

Specimen Curriculum for Majors in Chemistry

First Year

		Hrs.			Hrs.
Ch 1	General Chemistry	4	Ch 2	General Chemistry	4
Eh 1	Freshman Composition	3	Eh 2	Freshman Composition	3
Gm 19	German for Chemists	3	Gm 20	German for Chemists	3
Ms 1-3	Trigonometry and College Algebra or Ms 11, Freshman Mathematics	4	Ms 6	Analytic Geometry or Ms 12, Freshman Mathematics	4
Mt 1	Military Training	1½	Mt 2	Military	1½
Pt 1	Physical Education	—	Pt 2	Physical Education	—

(Select a registration of 16-17 hours from the courses listed for the second, third, and fourth years)

Second Year

		Hrs.			Hrs.
Ch 41	Quantitative Analysis	4	Ch 32	Micro-Qualitative Analysis	5
Gm 21	German for Chemists	3	Gm 22	German for Chemists	3
Ms 7	Differential Calculus*	5	Ms 8	Int. Calculus*	5
Py 1	General Psychology†	3	Py 2	General Psychology†	3
Es 1	Principles of Economics‡	3	Es 2	Principles of Economics‡	3
Sy 1	Principles of Sociology‡	3	Sy 2	Principles of Sociology‡	3
Pb 1	Public Speaking	2		(Elective)	2-3
Mt 3	Military Training	2	Mt 4	Military Training	2
Pt 3	Physical Education	—	Pt 4	Physical Education	—

Third Year

		Hrs.			Hrs.
Ch 51	Organic Chem.	5	Ch 51	Organic Chem.	5
Ps 1	General Physics*	5	Ps 2	General Physics*	5
Ed 51	History of Ed. in U.S.†	3	Eh	Technical Composition*	2
Ed 59	Principles of Secondary Ed.†	3	Ed 78	Prin. and Methods of Teach. in Sec. Schools†	3
Es 9	Accounting‡	3	Py 66	Educational Psychology†	3
Es 51	Corporation Finance‡	3	Es 10	Accounting‡	3
	Elective	3	Es 72	Labor Problems‡	3

Fourth Year

		Hrs.			Hrs.
Ch 71	Physical Chem.	5	Ch 72	Physical Chem.	5
Ch	Elective	3	Ch 86	Seminar	2
Ps 17	Intermediate Physics*	3	Ch	Elective	3
Ed 65	Educational Measurements†	3	Ps 18	Intermediate Physics*	3
Ch 97	Methods Teach. Chemistry†	2	Es	Elected‡	3
Ed 29	Practice Teaching‡	3	Sy	Elected‡	3
Sy	Elected‡	3		Elective	
Es	Elected‡	3			
	Elective	3			

* Preparation for graduate study.
† Teacher training.
‡ Commercial option.
All chemistry courses required.

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 semi-colon 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

PAGE

I. Mathematics and Natural Sciences
- Mathematics 214
- Astronomy 184
- Physics 222
- Chemistry 185
- Geology 204
- Biology .....
  - Botany 141
  - Zoology 239

II. Social Sciences and Philosophy
- Psychology 226
- Education 243
- Sociology 194
- Economics 191
- Government 210
- History 208
- Modern Society 218
- Philosophy 221
- Religion 229
- Western Civilization 218

III. Languages, Literature, and Fine Arts
- Classics 188
  - Greek 188
  - Latin 189
- Romance Languages 230
  - French 231
  - Spanish 234
- German 205
- Comparative Literature 203
- English 197
  - Literature 199
  - Composition 198
  - Linguistics 203
  - Journalism 202
- Speech and Dramatics 235
- Music 219
- Art: History and Appreciation 183

IV. Honors Courses 212

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. Text-book, 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 1938-39 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 1939-40 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 1939-40 and alternate years. *Three hours a week.*

9 (10). A Preface to Art History.—Lectures on the periods of art following the arrangement in the art gallery. Intended for beginners who desire a brief introduction to the study of architecture, sculpture, and painting. May be taken only one semester. Reading will supplement the lectures. *One hour 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 1939-40 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 PROFESSORS JENNESS, NOLAN, AND OTTO; MR. BOGAN; 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 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 coöperation 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, 32, 41, 51, 52, 71, 72, and 86. Some biological science is required, also some mathematics and physics.

1; 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Classroom (lectures, discussion and demonstrations), *two hours a week;* laboratory, (including recitations), *four hours a week.* One breakage card. *Four credit hours.* MR. TOMLIN

6. Descriptive Chemistry.—A non-professional course having as its objective a survey of the relationships of chemical science to present day civilization. Students are expected to do extensive reading. This course is designed for Arts and Sciences students who will not continue in the field of chemistry. It is not acceptable as a 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.—This is an introductory course in the fundamental principles of chemistry designed to prepare students for physical chemistry. It is recommended to majors in chemistry and to premedical and predental students as well as other students desiring a second-year elective in the Department of Chemistry. Prerequisite, Course 1, 2. Classroom, *three hours a week. Three credit hours.* MR. JENNESS

32. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principle of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. Lectures and recitations, *two hours a week;* laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* MR. OTTO

41. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 32. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. OTTO

51; 52. Organic Chemistry.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 32 or at least C grades in Course 1, 2. Suitable for graduate credit only as a minor subject. Classroom, *three hours a week;* laboratory, *four hours a week.* Two breakage cards. *Five credit hours.* MR. BRAUTLECHT

55. Contemporary Chemistry.—A study of contemporary chemists and chemical theory. Prerequisite, Course 52. Lecture, *one hour a week. One credit hour.* MR. BRANN

71; 72. Physical Chemistry.—The detailed study of fundamental principles of chemistry and their application to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 41 and Physics 1, 2. Calculus is very desirable. Suitable for graduate credit only as a minor subject. Classroom, *three hours a week;* laboratory, *four hours a week.* One breakage card. *Five credit hours.* MR. BRANN, MR. MARTIN

86. Journal Seminar.—A study of chemical literature and chemical methods. Prerequisite, Course 52 and senior standing. Classroom, *two hours a week. Two credit hours.* MR. NOLAN

97. 98. Methods of Teaching Chemistry.—A course for prospective teachers of chemistry which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstration, lesson plans, testing programs; texts, laboratory manuals; grading and scoring; bibliography. Text, problems, and journal

assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or equivalent. Classroom, *two hours a week. Two credit hours.*
MR. BRAUTLECHT

Other courses in the Department of Chemistry not listed here are described 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.—The student reads Attic Greek from the first. Passages from Plato and the dramatists form the bulk of the course. *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.

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.—Accurate knowledge of syntax is stressed in the first semester and Latin rhetoric in the second. Either semester is open to students who have completed Latin 7, 8 or the equivalent. Essential for prospective teachers. *One hour a week.*

23. The Younger Pliny.—Life and conditions in the Roman Empire as revealed by the letters of a Roman senator of the first century. Given in 1939-40 and alternate years. *Three hours a week.*

24. Horace.—Roman life and literary criticism of the Augustan Ag as revealed in the *Satires* and *Epistles.* Given in 1939-40 and alternat years. *Three hours a week.*

41. Roman Private Life.—The manners, customs, and everyday life of the Romans. Knowledge of Latin desirable but not essential. Open to the three upper classes. Given in 1940-41 and alternate years. *Three hours a week.*

51. 52. Teachers' Course.—The objectives, content, and methods of the secondary-school Latin curriculum. Discussion of principles, solution of problems, outside reading, and investigation of special topics. Given in case of adequate demand. *Three hours a week.*

62. The Latin Language.—A historical study of Latin forms and inflexions with a study of inscriptions. Given in 1940-41 and alternate years. *Three hours a week.*

ECONOMICS AND SOCIOLOGY

Professors Kirshen, Ashworth, Allen, and Chadbourne;
Associate Professor Lamson; Mr. Hobbah;
Miss E. G. Wilson; Mr. Burtt; Mr. Whitney

Coöperating members of the Department:

Mr. Dow, Head of the Department of History and Government

Mr. Niederfrank, Assistant Professor of 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: Es 1a; 2a, Principles of Economics, a prerequisite for all advanced courses unless waived by the head of the Department; Es 96, Seminar, for senior majors.

Business Administration: Es 1a; 2a, Principles of Economics, a prerequisite for all advanced courses unless waived by the head of the Department; Ba 9, 10, Accounting; Ba 96, Seminar, for senior majors.

Sociology: Sy 1; 2, Principles of Sociology, a prerequisite for all advanced courses in sociology unless waived by the instructor; Sy 95, 96, Seminar, for senior majors.

Senior majors in the department are required to pass an oral comprehensive examination in the spring semester.

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

1b; 2b. Principles of Economics.—A short course similar to Course 1a; 2a, for students in Technology and Agriculture. *Two hours a week.*

Mr. Ashworth, Mr. Hobbah, Mr. Burtt

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. Ashworth, Mr. Burtt

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 1940-41 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 1940-41 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 1940-41 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 1939-40 and alternate years. *Three hours a week.* MR. BURTT

71. Public Finance.—The following topics will be considered; government activities and government expenditures, taxation and tax systems, budgets and other means of regulating and controlling government spending, and current problems of taxation. Juniors and seniors only. *Three hours a week.* MR. ASHWORTH

72. Taxation in Maine.—A study of taxation, expenditures, and the public debt in the state of Maine. Juniors and seniors only. *Three hours a week.* MR. ASHWORTH

74. Labor and Government.—A study of the fundamental relationships between state and workers in a capitalist society and of the modifications induced by the growing political power of organized labor. Special attention will be given to recent labor legislation. Prerequisites, Es 1a; 2a and Es 33. Given in 1940-41 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 1939-40 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 1939-40 and alternate years. *Three hours a week.* MR. BURTT

91. Development of Ecor Thought.—A survey of the economic thinking of the Canonists, M ts, 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 1940-41. *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. 96. Seminar.—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.*

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

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

51. Corporation Finance.—The position of the modern business corporation is studied 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 course deals with the selection of investments, with a study of the proper types of investments for dependents, the business and professional classes, and institutions. The different types of securities and their relative merits are analyzed. An investigation is also made of the social and practical aspects of the investment banking business. Suggested preparation, Es 1a; 2a, Ba 51 and 53. Given in 1939-40 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

57. Trust and Corporation Policies.—A study of the combination movement, the anti-trust laws, and the part played by the corporation. Present tendencies in American policies will be considered. Not offered in 1940-41. *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

95. 96. Seminar.—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.*

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 departments 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 179 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.

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. NIEDERFRANK, MR. WHITNEY

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 objectives 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 1940-41 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, resettlement 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. NIEDERFRANK

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 illegitimate 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 1939-40 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 evaluation 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 are considered. Field trips. Prerequisite, Sociology 1, 2 or permission of instructor. Given in 1939-40 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 1940-41 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 1940-41 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, AND SMALL; ASSOCIATE PROFESSOR ASHBY; ASSISTANT PROFESSORS SCAMMAN, CROSBY, FLEWELLING, COGGESHALL, AND WHITNEY; MR. REYNOLDS; MRS. CRANDON; DR. WENCE; DR. SANDERLIN; MR. HAWTHORNE; MISS BAXTER; MISS OLIVER

Major subjects may be selected in English literature, American literature and history, journalism or creative writing, comparative literature, or dramatic literature. A specimen curriculum in journalism may be found on page 176; 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 and history, or music, or speech, or sociology, or any foreign literature.

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, and sociology; and in 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 written examinations in the mechanics of writing and 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 courses 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 67 and Eh 84. 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; 71 or 72 or 43 (44); and 84. Eh 67 is also strongly recommended.

Courses in Composition and Rhetoric

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 and 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. TURNER (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. The second semester of Freshman English for those students whose grade in English 1 is below B−; elective for others. *Three hours a week.*

MR. TURNER (Chairman) and MEMBERS OF THE DEPARTMENT

5 (6). Technical Composition.—A study of the forms of writing of greatest professional usefulness to engineers, agriculturists, and foresters. The forms of business correspondence, the construction of reports, and preparation of technical papers. *Not open to students in the College of Arts and Sciences. Two hours a week,* fall or spring semester.

MR. SCAMMAN (Chairman), MR. SMALL, MR. REYNOLDS

7. 8. Second-Year Composition.—In the fall semester the writing of essays and reports, with a study of the informal essay; 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. Either Eh 7 or Eh 8 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

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 with honor grade. *Three hours a week.*

77a. The Short Story.—Fall semester. MR. WHITNEY

78b. The Familiar Essay.—Spring semester. MR. WHITNEY

77 (78)c. Verse Writing.—Given in the spring of 1940.

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 the present time, tracing its historical development and acquainting the student with the chief writers and their work.

Readings, recitations, and lectures. English 3, 4 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. *Not open to students in Arts and Sciences. Two hours a week,* fall or spring semester.

Mr. Scamman (Chairman), Mr. Small, Mr. Reynolds, Mr. Hawthorne

18. Literature for Freshmen.—The reading and study of works of literature representing the chief literary types: fiction, essays, poetry, and drama, with several exercises in composition. This course may be elected instead of or in addition to English 2 by freshmen who have completed English 1 with a grade of B- or better. *Three hours a week.*

Miss Crosby (Chairman), Mr. Ashby, Mr. Whitney, Mr. Hawthorne

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. 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 a fondness for poetry in the student. Given in 1939-40. *Two hours a week.* Mr. Turner

41 (42). Present-Day 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. Not given in 1939-40. *Two hours a week.* Mr. Ellis

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

47 (48). The American Novel.—The chief American novelists of the nineteenth century and their work. *Three hours a week.* Not given in 1939-40. MR. FLEWELLING

For Courses 51-100 inclusive, Eh 3, 4 is prerequisite, except for Dean's List students in any college, whose grades in English have been satisfactory and who have the instructor's permission to enroll. *These courses may, with the approval of the Graduate Faculty, be taken for graduate credit by any qualified student who has already completed satisfactorily a full advanced course in the Department.*

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 1939-40 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 Shapespeare's contemporaries. *Three hours a week.* MR. ELLIS, MR. SMALL

59. 60. Nineteenth Century British Prose.—A study of the chief non-fiction writers of the nineteenth century, with attention to form and to the ideas conveyed. The authors principally treated are Coleridge, Lamb, Hazlitt, De Quincey, Carlyle, Macaulay, Arnold, Ruskin, Newman, Huxley, Pater, Stevenson, and Butler. Given in 1939-40. *Two hours a week.* MR. WENCE

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 1939-40 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 1939-40 and alternate years. *Three hours a week.* MR. ASHBY

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 1940-41 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.

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; 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 1939-40 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. Given in 1940-41 and alternate years. *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 publicity. Prerequisites: a minimum grade of C in English 23, 24; History 5, 6; 54; 67, 68; or consent of the instructor. Given in the fall semester, 1939. *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 1939-40. *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 study in the subject. *Two hours a week.* MR. SMALL

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 1940-41. *Three hours a week.* MR. ASHBY

Cp 75. 76. European Literature.—A survey of European literature from Homer to the present, showing the relationship 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 readings

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. Given in 1939-40 and alternate years. 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. To be 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 caracteristics of earth structures. Prerequisite, Course 25. Given in 1938-39 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. KLEIN, 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

Coöperating 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. Pre-law students, those planning to enter the civil or diplomatic service, and those interested in state or city administrative positions are advised to take advanced courses in government, modern history, and economics. 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. Courses Hy 1-6; 21, 22, Gt 1, 2 do not count as major courses under ordinary circumstances. For the purposes of the major, the courses of the Department will be considered in three divisions or fields of specialization: (1) European History, (2) American History, (3) Government. Having chosen his field of specialization, the student takes at least two approved courses (four semesters) in that division. Students who expect to specialize in European or American History should complete Hy 3, 4 and Hy 5, 6 or Cv 1-4, by the close of their sophomore year. Those who expect to specialize in Government, or History and Government, should complete Gt 1, 2 and Hy 3, 4 or Hy 5, 6 by the close of their second year. Principles of Economics and Sociology are strogly recommended for prospective majors in History and Government. Students may combine a major in History or Government with any other of the Social Sciences: Economics, Philosophy, Psychology, and Sociology.

The comprehensive 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.

Courses numbered above fifty are not open to freshmen or sophomores except by special permission from the head of the Department.

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 Deparment. 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.

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. *Three 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 in the University except freshmen. *Two hours a week.* 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 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 illustra-

tive: 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. *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, arbitration, limitation of armaments, and the League of Nations. Prerequisite, Course 3, 4 or 31. *Three hours a week.* MR. MORROW

77. 78. The Middle Ages.—A more advanced study of the period from 500 to 1500 than is undertaken in Course 5, 6. Special emphasis will be given to a study of medieval institutions and to social and economic matters. The Byzantine empire, Slavic Europe, and the westward advance of the Asiatic peoples will be studied as an introduction to modern problems in the Near East. Prerequisite, Course 5. Not given in 1940-41. *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. Given in 1940-41 and alternate years. *Three hours a week.* MISS WILSON

101. 102. Seminar.

125. Graduate Thesis.—*Six credit hours.*

81. 82. The Far East.—Given in case of sufficient demand.

Government

The study of government, or political science, covers the activities of governing agencies from towns and cities to international bodies. It is concerned with the origin and development of poitical 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. A large proportion of the public hold elective or administrative offices at some time during their careers. Opportunities for trained men and women in public service are increasing. This is especially true of such fields as city management, health administration, public welfare, and financial administration. Advanced technical or professional training is required for many positions, but basic undergraduate training in government is valuable in all instances. A broad viewpoint and cultural background can be attained at the same time, which will be useful in any occupation entered.

Specimen Curricula have been prepared in the following subjects and are obtainable from the Dean of the College of Arts ad Sciences:

Pre-legal Training. (See specimen curriculum on page 174.)
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. Pelletier

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.*

Guest Lecturers, Mr. Dow, Mr. Pelletier

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.*

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.*

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, MR. PELLETIER

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. 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. DOW

73. 74. International Relations.—A study of the fundamental realities which underlie international relations, and of the rules which govern them, with illustrative material taken from recent and current events and policies. Prerequisite, six hours of history or government. *Three hours a week.* MR. MORROW

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. Prerequisite, Course 1, 2, or Hy 3, 4. *Three hours a week.* MR. DOW

101. 102. Seminar.

125. Graduate Thesis.—*Six credit hours.*

The following courses will be given in case of sufficient demand:—

87; 88. International Law; 99; 100. Political Theory.

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 the Major Honors course of the senior year. *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 AND JORDAN; ASSISTANT PROFESSORS LUCAS, STEWART, KIMBALL, AND LAMOREAU; MR. JONES; MISS LAMOREAU; MR. MALLET

The function of the Department of Mathematics is two-fold. On the one hand the Department offers courses to students who are interested in mathematics as a preparation for research and the profession of teaching. It 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.

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.*

MR. WILLARD AND MEMBERS OF 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.*

MR. JONES

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

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, MISS LAMOREAU

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. KIMBALL, MR. LAMOREAU

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. LUCAS, MR. KIMBALL, MR. LAMOREAU

13. Spherical Trigonometry.—An elementary course with problems and applications to spherical astronomy. Not given in 1939-40. *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 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, amotization, the valuation of bonds, sinking funds and depreciation, building and loan associations; also the theory of probability and its application to life annulties 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. *Two hours a week.* MR. BRYAN

23; 24. Introduction to Mathematical Analysis.—A general introductory course in mathematics for freshmen in the College of Arts and Sciences. This course is designed especially for students who are interested in the physical, biological, and social sciences, and consists of a coördinated development of topics in algebra, trigonometry, analytic geometry, and introductory calculus. *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 coördinates, 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. LAMOREAU

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. WILLARD

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 1939-40. 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. Not given in 1939-40. *Three hours a week.* MR. WILLARD

61. History of Mathematics.—A chronological survey of the important development in mathematics from the beginnings 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. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1939-40 and alternate years. *Three hours a week.* MR. BRYAN

63; 64. Teachers' Course in Mathematics.—A study of the kind of mathematics suitable for the secondary school from the point of view of modern mathematics. Through conference, students who so desire may make a study of the teaching of college mathematics. Prerequisites, Courses 1, 3, 6, 7. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1939-40 and alterante years. *Three hours a week.* MR. BRYAN

73, 74. Advanced Statistics.—Derivations of formulas, further development of theory, discussions of preferential methods of correlation and of procedure, investigations by individuals and by groups. For students who are not mathematics majors, the emphasis will be placed on the further applications in the respective fields in which such students are interested rather

than on the mathematical theory of statistics. 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. Modern Projective Geometry; 68. Theory of Numbers; 71; 72. Modern Higher Algebra; 102. Elliptic Functions; 105. Vector Analysis; 109. Celestial Mechanics; 110. Hydrodynamics; 115. Theory of Functions of Real Variables; 116. Fourier's Series; 117. Theory of Substitution Groups and of Algebraic Fields; 118. Theory of Transformation Groups (Lie Theory); 119; 120. Differential Geometry.***

Modern Society

PROFESSOR KIRSHEN (Chairman); MR. PELLETIER; MR. WHITNEY

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); PROFESSOR LEVINSON; ASSOCIATE PROFESSOR E. F. WILSON; AND DR. STARR

1; 2. Western Civilization.—The first year of this two-year sequence aims to trace the development of Western Civilization from Ancient Greece and its neighboring older civilizations through Rome and the Middle Ages to the Renaissance. It will emphasize 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 will deal in a similar fashion with the period from the Renaissance to the present day. The same general plan of study will be 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

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 literaure 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.*

5; 6. Introductory Harmony.—A study of the fundamental structure of music composition, specifically of the conditions under which tones sound together and move in combination. Prerequisite, a knowledge of notation. *Two hours a week.*

7; 8. Advanced Harmony.—Supplementary to Course 5, 6 and a continuation of the more advanced problems of tone combination. Harmonic analysis, including a brief survey of modernistic tendencies. Prerequisite, Course 5, 6. Given in 1939-40 and alternate years. *Two hours a week.*

9; 10. Counterpoint.—The art of combining melodies, a correlative with Harmony as the material of composition. Analysis of masterworks. Composition projects. Prerequisite, Course 5, 6. Given in 1940-41 and alternate years. *Two hours a week.*

11. 12. Music in the Nineteenth Century.—Romanticism in musical art, particularly as reflected in the symphonic poem and Wagnerian music drama. Analysis of masterworks. Prescribed readings and reports. No prerequisite. *Two hours a week.*

13. 14. Orchestration.—A study of the modern symphony orchestra. Analysis of representative works through score-reading, phonographic records, and attendance at concerts. Assigned readings in history and theory. Practical scoring. An assurance of essential preparation is required. *Two hours a week.*

25. 26. Chorus.—The study and performance of representative choral repertoire, with a consideration of the composers' historical positions and creative aims. An assurance of vocal aptitude is required. *Two hours a week. One hour credit.*

27. 28. Orchestra.—A program in orchestral ensemble, generally of symphonic order, similar to that of Course 25, 26. An assurance of instrumental aptitude is required. *Two hours a week. One hour credit.*

51. Interpretation and Conducting.—A consideration of the problems of organization, time-beating, program-building, and interpretation in both choral and instrumental ensemble. Prerequisite, an assurance of aptitude and membership in the University band, chorus, or orchestra. *One hour a week.*

Band is listed under Military Science and Tactics, Course 11. 12.

Applied Courses

The 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

Philosophyy is the systematic attempt to think our way to the solution of the problems that arise when we ask such general questions as those concerning the meaning of the world the origin and destiny of human life, its standards and values, the sources and limits of our genuine knowlede, the principles that underlie valid reasoning, and the sources and significance of the sense of beauty. While philosophy is ordinarily approached directly by way of the history of man's attempt to solve these problems (see Pl 3, 4), or through a study of the principal problems or types of philosophy (see Pl 5, 6), opportunity is offered to various classes of students to approach it from the standpoint of their work in other fields (see Pl 11, 12).

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. Given in 1939-40 and alternate years. *Three hours a week.*

5; 6. Personal Philosophy.—The student is invited to make a provisional statement of his more general beliefs about the nature of the world and man, and, in the light of assigned readings and class discussions, to formulate a working philosophy of life. Given in 1940-41 and alternate years. *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. The materials employed in the course are drawn largely from the press and from the literature of the social sciences. *Two hours a week.* Given in 1941 and alternate years.

10. Ethics.—A critical examination of various competing conceptions of the good life. Special attention will be given to problems of contemporary society: professional and business ethics; democracy and its rivals; religion. *Three hours a week.* Given in 1940 and alternate years.

11. 12. Topics in Philosophy.—This course is restricted to a limited number of properly qualified upperclassmen whose needs in philosophy are not satisfied by any of the other courses offered by the Department. Topics associated with the student's major subject will be studied through tutorial conferences, assigned readings, and reports. No work in philosophy is prerequisite. *Two or three hours a week.*

101. 102. Seminar.—An individually arranged program of tutorial instruction for students offering twelve hours of work in the Department, or the equivalent.

PHYSICS

Associate Professor Bennett (Department Head); Associate Professor Crofutt; Assistant Professor Larsen; Dr. 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 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, but applications can 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 in much the same manner as the chemist has done in the last few decades.

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, and light. *Two lectures; one recitation,* and *one two-hour laboratory period a week. Four credit hours.* MR. BENNETT, MR. LARSEN, MR. WILLIAMS

1b; 2b. General Physics.—This is a course in First-Year General College Physics which meets the requirements of the College of Technology. The lectures in this course are held jointly with Course 1a, 2a. With the extra recitation per week, however, this course places more emphasis on the solution of problems than does 1a, 2a. 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 a contact with 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. References are made to the lives and theories of those men who have contributed most to the advancement of physics. 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

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 mathematical treatment of many of the topics already 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 selected from those regularly performed in Courses 21, 24, with the addition of a few experiments in sound and light. Course 17, 18 is required concurrently or as a prerequisite. *Two hours a week. One credit hour.*

MR. LARSEN, 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 1a, 2a or 1b, 2a is prerequisite. *Four hours a week. Two credit hours.*

MR. LARSEN, MR. WILLIAMS, MR. CROFUTT, MR. OLESON

24. 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 characteristics, and frequency of alternating currents. Open to those who have completed Course 1a, 2a, or 1b, 2b, and who have a working knowledge of calculus. Laboratory, *four hours a week. Two credit hours.* MR. CROFUTT

31. 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; contact 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.—A course on the advanced level 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.—A course dealing with vibrating systems, sources of sound, transmission of sound, its reception and transformations. Attention is given to speech and hearing, sound ranging, architectural acoustics, reproduction of sound, noise reduction, and musical instruments. Open to those who have completed Course 17, 18 or it 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 cerdit hours.* MR. CROFUTT

66. Vacuum Tubes and Thermionic Phenomena.—This is a 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 Physical Theories.—An advanced course embracing a study of electrical phenomena in gases, 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. Light.—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, and Nuclear Physics. *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. WHITE; MR. GEBHARD

Psychology includes a study of mind and of modes of behavior. It offers the student an opportunity to acquaint himself at first hand with the fundamental laws of the psychophysical organism. Through a study of the child, the normal adult, and the abnormal individual, it enables him to gain an insight into personality development and the problems of human adjustment. Through experience with psychological tests and the techniques of testing he comes to a more practical understanding of intelligence.

In its ramifications psychology borders upon the natural as well as the

social sciences. It is most closely allied, however, with education, zoology, economics, sociology, and philosophy.

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 twetny-five students. *Elective. No credit. Two laboratory periods a week.* MR. WHITE

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.—A course designed to acquaint the student with the psychological principles involved in advertising and selling. Practical application of these principles in rewriting advertisements appearing in newspapers and magazines, and in the developing of an advertising and selling campaign in relation to an actual product. Prerequisite, Course 1, or permission of the instructor. *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.—A study of the physical and mental changes which occur at this period. Learning, memory and reasoning, emotional maturing, personality development and disturbances of personality are among the items considered. 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 schools; its nature and control, its permanence and effects on attitudes, interests and appreciations; the problem of transfer of training. Prerequisite, Course 1. 2. *Three hours a week.*

MR. WHITE

67. Psychology of Childhood.—A study of the mental growth of the child to twelve years of age. Native equipment, environmental influences, the devlopment of motor and behavior patterns, speech, inference, judgment, etc., are given consideration. Modern experimental techniques of child study are discussed. Five thousand feet of motion pictures are available. Prerequisite, Course 1. 2, with a grade of C or better. *Three hours a week.*

MR. DICKINSON

69; 70. Experimental Approach to Psychological Problems.—The first semester aims to acquaint the student with experimental techniques and to orient him in the objective approach to problems. In the second semeser these techniques will be 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 coöperation 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 22, November 5, 19, December 3, 10. 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 cinstituent traits; the structure and organization of personality. Personality measurement. The understanding of personality. Alternates with Py 65 Psychology of Adolescence. To be given in 1940. 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, 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 pychology; systems and schools of psychology; current psychological experimental literature; etc. Required of all Psychology majors; prerequisite for others, permission of the instructor. *Two hours a week.* MR. DICKINSON

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 will 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 acquainance 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 22 hours in the junior and senior years. Courses 21, 22; 27, 28; 29, 30 may not ordinarily be included in this number, being intended primarily for sophomores. Twelve of the 22 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 year-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 inter-

ests 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, MR. STARR

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, MR. STARR

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 (27, 28), 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 renewal of French literary inspiration by Chateaubriand and Victor Hugo and the development of the realistic novel by Balzac, Flaubert, and others. Reading of examples of both Romantic and Realistic fiction. *Three hours a week.* MR. STARR

27. 28. Social and Political Trends.—The reading of modern writers dealing with trends and problems in economics, government, and other social sciences and the background of modern society. Collateral reading by the student in the field of his special interest. Alternates with Course 29, 30; not offered in 1940-41. *Three hours a week.* MR. VIGNERAS

29. 30. Contemporary Literature.—Similar in scope to Course 27, 28 but with more 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. Alternates with Course 27, 28; offered in 1940-41. *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; not offered in 1940-41. *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.* MISS BUZZELL, MR. PETERSON

63. 64. French Classical Literature.—A study of the leading characteristics of the seventeenth and eighteenth centuries. Reading of masterpieces of the classical dramatists and selections from La Fontaine, Voltaire, Montesquieu, Rousseau, and other writers. Alternates with Course 55, 56; offered in 1940-41. *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; offered in 1940-41. *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; not offered in 1940-41. *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. *Two 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. *Credit, arranged.*

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

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. *Three 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

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. *Three hours a week.* MR. PETERSON

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.

SPEECH

PROFESSOR BAILEY; ASSISTANT PROFESSORS BRICKER AND RUNION; 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 a major curriculum which emphasizes 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 groups.

Basic courses in speech required of all majors are Sh 1 (2), Sh 3 (4), Sh 7, and Sh 15.

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. BAILEY, 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, MR. DUSENBURY

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. The course includes critical analysis of current radio programs; also, the writing of radio scripts, sports, news, and commercial copy. Students are offered opportunity to 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). Not offered in 1940-41. *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 1940-41 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. Not offered in 1940-41. *Two hours a week.* MR. RUNION

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. Offered in 1940-41 and alternate years. *Three hours a week.* MR. RUNION

Courses in Theatre

Courses such as Drafting and Perspective given in the College of Technology, Design and History of Costume given in the College of Agriculture,

and Fencing and Modern Dance given in Physical Education will serve to give our drama majors a well-rounded course.

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. 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. WETHERBEE

17. 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. Not offered in 1940-41. *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

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 four 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

Gc 7, 8. Typewriting.—A beginning course in touch typewriting. 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. STORA EMMETT

Gc 9, 10. Shorthand.—A beginning course offered two semesters and aims 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 arrangement of a typewritten letter or manuscript. Membership is anticipated in the Order of Gregg Artists, Theory and the Transcription clubs through coöperation with the Gregg Publishing Company. REGINA H. PREBLE

ZOOLOGY

PROFESSOR MURRAY; ASSISTANT PROFESSORS NELSON AND SPEICHER; DR. COOPER; DR. FULLER; MISS DURICK; MISS MANSFIELD; MR. KROLL; MR. TOPPING

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

MR. MURRAY

14. Animal Parasitology.—This course deals with the identification of the more important parasites, the study of their life histories, and the prevention, control, and cure of the diseases involved. Special emphasis is given to the parasites affecting game animals. Prerequisite, Zoology 1 or 3, 4. Classroom, *one hour a week;* laboratory, *four hours a week. Three credit hours.* MR. NELSON

15; 16. Comparative Anatomy.—A comparative study of the structure, origin, and history of the vertebrate organ-systems. Prerequisites, Zoology 1 and Botany 2, or Zoology 3, 4, passed satisfactorily. Classroom, *two hours a week;* laboratory, *four hours a week. Four credit hours.*

MR. NELSON

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. MURRAY

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

21. Animal Ecology.—This course is a survey of the physical, chemical, and biological factors in the ecology of animals. Prerequisite, Zoology 10 and 13. First nine weeks of the first semester. Lecture, *two hours a week. One credit hour.* MR. COOPER

22. Animal Ecology.—Continuation of 21. Lecture, *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.*

MR. NELSON

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. (Given at the University of Maine Biological Laboratory at Lamoine.)—This summer course is intended for students who have had some work in Zoology and who wish to gain first-hand acquaintance with living forms. It will consist of lectures and reading to cover the general field of invertebrate zoology from the systematic phylogenetic viewpoint as well as pointing out problems connected with the various groups: laboratory work will give an opportunity to study the anatomy of typical forms and follow out some of the problems discussed in the lectures; field trips will stress the collecting, classification, and habitat of local forms. Usually there will be a lecture every morning followed by a supervised laboratory both morning and afternoon, but two or three times a week there will be field trips, and, as there is a tide fall of over eleven feet, these trips must be arranged so that the work may be done on the low tide. *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 field chosen will be given due credit toward the requirements.

Normal-school graduates who are interested in entering the School of Education should request their principal to send a transcript of their record together with a statement giving their class rank to the 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 aca-

demic 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 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.

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 AND CHADBOURNE; ASSOCIATE PROFESSOR JACKMAN; ASSISTANT PROFESSOR 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. Weekly conferences with the instructor in charge. Open to qualified seniors whose major subject is English. *Two class hours weekly, first or second half semester. One credit hour.* MR. JACKMAN, MRS. CRANDON

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 skills, knowledges, tastes, and ideals which are demanded in modern life. Primarily for juniors and seniors. Open to sophomores by permission. *Three hours a week.* MR. LUTES

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 introduction 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 voca-

tional 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 1940-41 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. Given in 1941-42 and alternate years. *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

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

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 coördination. *Two hours a week.*

MISS CHADBOURNE

97. 98. Current Problems in Education.—Each student is assigned special problems in the field of education. Primarily for majors in education. Open by permission to others. Seniors only. *Two hours a week.*

MR. LUTES AND STAFF

105. Methods of Research in Education.—A course in principles and techniques of educational research. Designed primarily for graduate students writing theses in education. Opportunity will be afforded to use thesis problems to illustrate the principles and techniques emphasized in the course. This course will be required of graduate students majoring in education. *Two hours a week.*

MR. LUTES

College of Technology

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 in this college:

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	$80.00*, †	$7.00
Sophomores	50.00†-72.00†	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 ($30.00) 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 the departments.

Income

The income of the Station is derived from University appropriations and from the State Highway Department.

Object

The objects of the Station are to carry on practical research in engineering subjects, make investigations for State boards and municipal authorities, furnish scientific information to the industries of the State, and distribute accurate scientific knowledge to the people of the State.

Equipment

Most of the Station offices and laboratories are at present located in Wingate Hall, described in the section on University buildings. The Station is well equipped for the testing of concrete and highway materials, both bituminous and non-bituminous. Crosby 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 soil 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-five bulletins and thirty 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, and Tech. Assn. of Pulp and Paper Industry.

CURRICULA

Freshman Year

Common to all engineering courses and Chemistry

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab.	Cr.			Rec.	Lab.	Cr.
Ch	1 Gen. Chemistry	2	4	4	Ch	2 Gen. Chemistry	2	4	4
Eh	1 Freshman Comp.	3	0	3	Eh	2 Freshman Comp.	3	0	3
Md	1 Funds. Draft.	0	4	2	Md	2 Ely. Mach. Draft.	0	4	2
Ms	1 Trigonometry	2	0	2	Ms	6 Anal. Geom.	4	0	4
Ms	3 Algebra	2	0	2	Mt	2 Military	2	1	1½
Mt	1 Military	2	1	1½	Ps	2b General Physics	4	2	5
Ps	1b General Physics	4	2	5	Pt	2 Phy. Education	0	2	0
Pt	1 Phy. Education	0	2	0	Gc	6 Orientation	1	0	½
Gc	5 Orientation	1	0	½					

Chemical Engineering Curriculum

This curriculum is 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 259. See Administrative Option, page 262. 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 superintendent, 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.

A course in Chemical Engineering Practice is open to a selected group of Chemical Engineering undergraduate and graduate students. By this arrangement seniors and graduate students may participate in investigations in actual plant operation, thus obtaining valuable and unusual experience.

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 italics. Courses in this group not italicized *must be passed* before he is eligible for graduation.

The student must select sufficient hours to bring his total to that required by the College, namely, 143 exclusive of Military. See also statements on pages 253 and 254.

Freshman Year

Common to all engineering courses. See page 257.

Sophomore Year

FALL SEMESTER				SPRING SEMESTER			
Subject	*Hours* Rec.	Lab. or Comp.	Cr.	*Subject*	*Hours* Rec.	Lab. or Comp.	Cr.
Ch 41 Quant. Anal.	1	8	4	*Ch 22 Intro. Theoret. Chem.*	*3*	*0*	*3*
Ch 51 Organic Chem.	3	4	5	Ch 32a Micro-Qual. Anal.	2	3	3
ChE 33 Elementary Stoichiometry	3	0	3	Ch 52 Organic Chem.	3	4	5
Ms 7 Diff. Calculus	5	0	5	Ee 30 Dir. Current Mach.	2	0	2
Mt 3 Military	2	1	2	Ms 8 Int. Calculus	5	0	5
Pt 3 Phy. Education	0	2	0	Mt 4 Military	2	1	2
				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.
Ch 71	Phys. Chem.	3	4	5	Ch 72	Phys. Chem.	3	4	5
ChE 75	Els. of Chem. Eng.	3	0	3	ChE 76	Els. of Chem. Eng.	3	0	3
Ee 31	Alt. Currents	2	0	2	*Gm 20*	*German for Chemists*	*3*	*0*	*3*
Ee 33	Elec. Lab.	0	3	1½	Mn 54	Mechanics	3	0	3
Gm 19	*German for Chemists*	*3*	*0*	*3*	Pb 2	Pub. Speaking	2	0	2
Mn 53	Mechanics	3	0	3	*Ps 82*	*Adv. Lab. Physics*	*0*	*4*	*2*

Senior Year

Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ch 61	Technical Anal.	1	8	4	Ch 86	Journal Seminar	2	0	2
ChE 77	Inorgan. Tech.	3	0	3	*ChE 50*	*Thesis*	*Arr*		*1-3*
ChE 81	Chem. Eng. Lab.	1	4	3	ChE 78	Organ. Tech.	3	0	3
ChE 87	*Chem. Eng. Practice*	*0*	*9*	*3*	ChE 82	Chem. Eng. Lab.	1	4	3
					ChE 84	*Unit Processes*	*1*	*4*	*3*
Eh 5	Tech. Comp.	2	0	2	*Eh 10*	*Modern Lit.*	*2*	*0*	*2*
Me 43	Heat Eng.	3	0	3	Me 40	Mechanical Lab.	0	3	1½

Students desiring to elect any course may do so only with approval of the major instructor. Such free electives will be limited in number.

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 engineer-

ing, 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. Courses not italicized in this group *must be passed* before he is eligible for graduation. Courses in italics may have an approved elective substituted for them.

All sophomore Pulp and Paper major students are required to take the Summer Mill Practice course or its equivalent.

Required for graduation: a total of 143 semester hours exclusive of Military and Physical Training. Three of these hours may be for thesis.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

Same as Chemical Engineering. See page 258.

Summer

Subject	*Hours. Cr.*
Pa 40s Summer Mill Practice	Arr.

Junior Year

FALL SEMESTER

Subject		Hours Rec.	Lab. or Comp.	Cr.
Bt 43	*Wood Iden.*	*0*	*3*	*1*
Ch 71	Phys. Chem.	3	4	5
ChE 75	Els. of Chem. Eng.	3	0	3
Ee 31	Alt. Currents	2	0	2
Ee 33	Elec. Lab.	0	3	1½
Gm 19	*German for Chemists*	*3*	*0*	*3*
Mn 53	Mechanics	3	0	3
Pa 65	Pulp Tech.	3	0	3
	Electives	—	—	—

SPRING SEMESTER

Subject		Hours Rec.	Lab. or Comp.	Cr.
Ch 72	Phys. Chem.	3	4	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*
Mn 54	Mechanics	3	0	3
Pa 66	Paper Tech.	3	0	3
Pb 2	Pub. Speaking	2	0	2
	Electives	—	—	—

Senior Year

Subject		Hours Rec.	Lab. or Comp.	Cr.
ChE 77	*Inorgan. Tech.*	*3*	*0*	*3*
ChE 81	Chem. Eng. Lab.	1	4	3
Eh 5	Tech. Comp.	2	0	2
Me 43	Heat Eng.	3	0	3
Pa 67	Pulp Mfg. (9 wks.)	0	8	2
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*	*0*	*9*	*3*
	Electives	—	—	—

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*
Me 40	Mechanical Lab.	0	3	1½
Pa 50	*Thesis*	*Arr*		*1-3*
Pa 68	Paper Mfg.	0	4	2
Pa 82	Pulp Coloring and Bleaching	0	4	2
Pa 86	Cellulose	0	4	2
	Electives	—	—	—

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 italicized courses in the Chemical Engineering curriculum 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 unless in exceptional circumstances he is permitted to substitute an approved elective for a course printed in italics. Courses not italicized must be passed before a 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, and sufficient additional hours to bring his total to that required by the College, namely, 143 exclusive of Military.

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 257.

Sophomore Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ch 41	Quant. Anal.	1	8	4	Ch 22	Intro. Theoret. Chem.	3	0	3
Gm 19	*German for Chemists*	*3*	*0*	*3*	Ch 32	Micro-Qual. Anal.	2	8	5
Ms 7	Diff. Calculus	5	0	5	*Gm 20*	*German for Chemists*	*3*	*0*	*3*
Mt 3	Military	2	1	2	Ms 8	Int. Calculus	5	0	5
Pb 1	Pub. Speaking	2	0	2	Mt 4	Military	2	1	2
Ps 17	*Intermediate Physics*	*3*	*0*	*3*	*Ps 18*	*Intermediate Physics*	*3*	*0*	*3*
Pt 3	Phy. Education	0	2	0	Pt 4	Phy. Education	0	2	0
	Electives	—	—	—		Electives	—	—	—

Junior Year

Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ch 51	Organic Chem.	3	4	5	Ch 52	Organic Chem.	3	4	5
Ch 71	Phys. Chem.	3	4	5	Ch 72	Phys. Chem.	3	4	5
Eh 9	*Modern Lit.*	*2*	*0*	*2*	Eh 6	Technical Comp.	2	0	2
Gm 21	*German for Chemists*	*3*	*0*	*3*	*Gm 22*	*German for Chemists*	*3*	*0*	*3*
	Elective Humanities	—	—	—		Elective Humanities	—	—	—

Senior Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec. or Comp.	Lab.	Cr.			Rec. or Comp.	Lab.	Cr.
Ch 49	*Thesis*	*Arr.*		*1-3*	*Ch 50*	*Thesis*	*Arr.*		*1-3*
Ch 63	Intermed. Quant. Anal.	1	8	4	*Ch 56*	*Struct. Matter**	*2*	*0*	*2*
Ch 73	Chem. Microscopy	0	6	2	Ch 84	Metallurgy	3	0	3
Ch 89	Organic Prep.	0	6	2	Ch 86	Journal Seminar	2	0	2
Ch 91	Intermed. Org. Chem.	3	0	3	Ch 92	Intermed. Org. Chem.	3	0	3
	Electives	—	—	4-6		Electives	—	—	6-8

* Alternates with Ch 54.

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.

At present there is some demand for a course which will prepare a young man for work in the field of city management. After a careful sur-

vey of the needs of such a course, a five-year curriculum has been planned. The curriculum is not listed here but will be supplied upon request. Briefly it includes the major portion of Options 2 and 3 with a wide variety of elective courses in accounting, economics, history, and government.

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 coöperate 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 11 to July 20, 1940.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ce 1	Plane Surveying	2	0	2	Ce 10	Curves and Earthwork	3	0	3
Ce 3	Field Work & Plotting	0	9	3	Ce 16	Geology	2	1½	2½
Md 3	Des. Geometry	0	6	2	Ms 8	Int. Calculus	5	0	5
Ms 7	Diff. Calculus	5	0	5	Mt 4	Military	2	1	2
Mt 3	Military	2	1	2	Pb 6	Persuasive Speech	2	0	2
Pb 1	Pub. Speaking	2	0	2	Ps 22	Mechanics & Heat Lab.	0	4	2
Pt 3	Phy. Education	0	2	0	Pt 4	Phy. Education	0	2	0
	Elective	—	—	—		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

Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
As 11	Pract. Astron.	2	1	2½	Ce 20	Structural & Highway Materials	1	4	3
Ce 25	Eng. Geology	2	1½	2½	Ce 26	Hydraulics	3	0	3
Ce 29	Highway Const.	2	0	2	Ce 52	Theory & Des. of Steel Structures	5	0	5
Ce 33	San. Eng. & Water Supply	2	3	3	Mn 52	Mechanics	5	0	5
Mn 51	Mechanics	5	0	5		Elective	—	—	—
	Elective	—	—	—					

Senior Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ce 57	Conc. Structures & Foundations	5	0	5	Ce 60	Drafting	0	6	2
					Ee 36	Alt. Currents	2	0	2
Ce 59	Drafting	0	9	3	Ee 38	Elec. Lab.	0	3	1½
Ee 35	D. C. Machy.	2	0	2	Eh 6	Tech. Comp.	2	0	2
Me 39	Mech. Lab.	0	3	1½	Ba 16	Business Law	3	0	3
	Highway Option					Highway Option			
Ce 53	Hyd. Eng.	0	2	1	Ce 68	Highway Design	0	4	2
Ce 63	Highway Econ.	3	0	3	Ce 72	Highway Eng.	2	0	2
	Hydraulic Option					Hydraulic Option			
Ce 51	Hyd. Eng.	0	4	2	Ce 56	Hyd. Eng.	0	4	2
Ce 55	Hydrology	2	0	2	Me 78	Hyd. Lab.	0	3	1½
	Sanitary Option					Sanitary Option			
By 3	Bacteriology	2	0	2	By 2	Bacteriology	0	6	3
Ce 71	Sanitary Eng.	2	0	2	Ce 74	Sanitary Eng.	2	0	2

Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thorough understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

Courses in communication engineering 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 competent 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 257.

Sophomore Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ee 1	Els. Elec. Eng.	2	5	4	Ee 2	Els. Elec. Eng.	2	5	4
Es 1b	Prin. of Econ.	2	0	2	Ce 2	Plane Surveying	1⅔	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
Pb 1	Pub. Speaking	2	0	2	Pb 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* Rec.	Lab. or Comp.	Cr.	*Subject*	*Hours* 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.	2	2	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 53 Money & Banking	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* Rec.	Lab. or Comp.	Cr.	*Subject*	*Hours* Rec.	Lab. or Comp.	Cr.
Ee 51 Alt. Cur. Appar.	3	4	5	Options (Six subjects required)			
Ee 75 Elec. Lab.	1	3	2½				
Options (Two subjects required)				Ee 10 Radio Operating	0	1½	½
				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 63 Elec. Transp.	3	0	3	Ee 58 Elec. Power Transm.	2	3	3
Ee 81 Comm. Eng.	0	4	2				
Ee 83 Comm. Lab.	0	3	1½	Ee 60 Adv. Elec. Mach.	3	0	3
Ee 85 Radio Eng.	2	2	3	Ee 76 Elec. Lab.	1	3	2½
Ee 87 Eng. Acoustics	2	0	2	Ee 84 Tel. Transm.	0	4	2
Ee 91 Theory of Elect.	2	0	2	Ee 86 Radio Eng.	2	2	3
Ba 51 Corp. Finance	3	0	3	Ee 88 Radio Lab.	0	3	1½
Me 41 Mech. Lab.	0	3	1½	Ee 92 Theory of Elect.	2	0	2
Me 45 Heat Eng.	3	0	3	Ba 16 Business Law	3	0	3
				Me 98 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 primarily 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 257.

Sophomore Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours* Rec.	Lab. or Comp.	Cr.	*Subject*		*Hours* Rec.	Lab. or Comp.	Cr.
Ch 41a	Quant. Analysis	1	6	3	Ch 22	Intro. Theor. Chem.	3	0	3
*Es 1b	Prin. of Economics	2	0	2	*Es 2b	Prin. of Economics	2	0	2
*Gm 19	German for Chemists	3	0	3	*Gm 20	German for Chemists	3	0	3
Ms 7	Diff. Calculus	5	0	5	Ms 8	Integ. Calculus	5	0	5
Mt 3	Military	2	1	2	Mt 4	Military	2	1	2
Pb 1	Public Speaking	2	0	2	Ps 18	Intermed. Physics	3	0	3
Ps 17	Intermed. Physics	3	0	3	Ps 20	Int. Lab. Physics	0	2	1
Ps 19	Int. Lab. Phys.	0	2	1	Pt 4	Phys. Education	0	2	0
Pt 3	Phys. Education	0	2	0		Electives			
	Electives				Me 10	Machine Tool Lab.	0	4	1½
Md 3	Des. Geometry	0	6	2	Ps 10	Meteorology	3	0	3
Me 9	Machine Tool Lab.	0	4	1½					

Junior Year

Subject		*Hours* Rec.	Lab. or Comp.	Cr.	*Subject*		*Hours* Rec.	Lab. or Comp.	Cr.
*Ch 71	Physical Chem.	3	4	5	*Ch 72a	Physical Chem.	3	0	3
Eh 5	Technical Comp.	2	0	2	Eh 10	Modern Lit.	2	0	2
*Gm 21	German for Chemists	3	0	3	*Gm 22	German for Chemists	3	0	3
Mn 53	Mechanics	3	0	3	Mn 54	Mechanics	3	0	3
Ms 57	Eng. Math.	3	0	3	Ms 58	Eng. Math.	3	0	3
Ps 55	Elec. and Mag.	3	0	3	Ps 24	Elec. Meas.	0	4	2
	Electives				Ps 72	Light	3	0	3
Ce 1	Plane Surveying	2	0	2		Electives			
Ee 1p	Els. Elec. Eng.	2	3	3	Ce 16	Geology	2	1½	2½
Pa 65	Pulp Technology	3	0	3	Ee 2p	Els. Elec. Eng.	2	3	3
Py 1	Gen. Psychology	2	2	3	Pa 66	Paper Tech.	3	0	3
Zo 3	Animal Biology	2	4	4	Py 2	Gen. Psychology	2	2	3
					Zo 4	Animal Biology	2	4	4

Senior Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours* Rec.	Lab. or Comp.	Cr.	*Subject*		*Hours* 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. Phys. Theo.	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
Me 21	Mats. of Eng.	2	0	2	ChE 82	Chem. Eng. Lab.	1	4	3
Me 33	Heat Engineering	3	0	3	Ee 38	Electrical Lab.	0	3	1½
Ms 105	Vector Analysis	3	0	3	Me 22	Els. of Mech. Eng.	2	3½	3½
Ps 31	Photography	2	2	3	Me 34	Heat Eng.	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 * providing they are approved by the department head, with the exception that at least one year of German should be taken before graduation.

General Engineering Curriculum

This curriculum is designed primarily to permit a selected few pre-eminently 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, thermody-

namics, 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 so that a student starting with certain electives in that department in the sophomore year would be able to obtain a degree of Master of Science in Economics 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 257.

Sophomore Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ch 41	Quant. Anal.	1	8	4	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 32	Micro-Qual. Anal.	2	8	5
Md 3	Desc. 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
Pb 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.	3	4	5	Ce 26	Hydraulics	3	0	3
Ee 13	Electronics	2	3	3	Ch 72	Physical Chem.	3	4	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	Tech. 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, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and air-conditioning or refrigerating equipment; the superintendence or management of factories, power plants, and motive power; the equipment of railways, and similar work.

The Mechanical Engineering curriculum is arranged to equip men as well as possible in four years' time to enter any of these lines of work.

It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses, while those subjects which

are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short, and his acquirement of the knowledge necessary for advancement rapid.

The theoretical work is taught by lectures and recitations. The texts are carefully chosen and are supplemented, where necessary to illustrate more recent practice, by explanation and examples given by the instructor. Numerous problems are assigned for work outside the classroom to make sure the student can apply the principles learned.

Laboratory courses illustrate the application of theory and subject matter learned in the recitation work, and also teach methods of construction, operation, and testing of apparatus by direct contact with it. In the drawing rooms, applications of theories to work in design are taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thorough instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*	Lab. Rec. or Comp.	Cr.	*Subject*		*Hours*	Lab. Rec. 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 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
Pb 1	Public Speaking	2	0	2	Pb 4	Debate or option	2	0	2
Ps 21	Mech. & Heat Lab.	0	4	2	Pt 4	Phy. Education	0	2	0
Pt 3	Phy. Education	0	2	0					

Junior Year

FALL SEMESTER					SPRING SEMESTER				
Subject		*Hours*			*Subject*		*Hours*		
		Rec. or Comp.	Lab.	Cr.			Rec. or Comp.	Lab.	Cr.
Es 33	Labor Problems or Option	3	0	3	Eh 6	Tech. Comp.	2	0	2
Me 7	Mach. Tool Lab.	0	6	2	Me 8	Mach. Tool Lab.	0	6	2
Me 23	Kinematics	3	3	4	Me 24	Machine Design	2	3	3
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
Mn 51	Mechanics	5	0	5	Mn 52	Mechanics	5	0	5

Senior Year

Subject		*Hours*			*Subject*		*Hours*		
		Rec. or Comp.	Lab.	Cr.			Rec. or Comp.	Lab.	Cr.
Ce 35	Hydraulics	2	0	2	Ee 36	Alt. Currents	2	0	2
Ee 35	D. C. Machy.	2	0	2	Ee 38	Elec. Lab.	0	3	1½
Me 71	Mech. Lab.	0	3	1½	Me 50	Thesis (or Option)	Arr		3
Me 81	Heat Eng.	2	3	3					
Me 87	Machine Design	0	6	2	Me 72	Mech. Lab.	0	3	1½
Me 91	Heat. & Air Conditioning	3	0	3	Me 84	Ind. Management	2	0	2
					Me 86	Power Plants	3	0	3
Me 93	Gas Engines	3	0	3	Me 88	Dynamics of Machines	2	0	2
Py 3	App. Psychol. (or Option)	3	0	3		Option			
					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 PROFESSOR CAULFIELD; MR. BOGAN; MR. TOMLIN; MR. MARTIN

Courses in Chemistry

1; 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Classroom (lectures, discussion, and demonstrations), *two hours a week;* laboratory, including recitations, *four hours a week.* One breakage card. *Four credit hours.* MR. TOMLIN, MR. MARTIN

5. Inorganic Chemistry.—For Home Economics students only. More of the laboratory time is devoted to drill on inorganic principles than in Course 1, 2. Classroom, *two hours a week;* laboratory, *four hours a week.* One breakage card. *Four credit hours.* MR. BOGAN

6. Descriptive Chemistry.—A non-professional course having as its objective a survey of the relationships of chemical science to present-day civilization. Students are expected to do extensive reading. This course is designed for Arts and Science students who will not continue in the field of chemistry. It is not acceptable as a 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.—This is an introductory course in the fundamental principles of chemistry designed to prepare students for physical chemistry. It is recommended to majors in Chemistry and Chemical Engineering as well as other students desiring a second-year elective in the Department of Chemistry. Prerequisite, Course 1, 2. Classroom, *three hours a week. Three credit hours.* MR. JENNESS

32. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principle of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. (Chemical Engineering students may take this course under the heading of 32a 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. OTTO

41. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 2. (Engineering Physics students may take this course under the heading of 41a, 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. OTTO

46. Sanitary Chemistry.—For Civil Engineering students taking the Sanitary Engineering option, and other qualified students, This course is offered in alternate years. Given in 1939-40. (*Two credit hours* only for Chemistry majors.) Fundamental topics of water purification and waste disposal. Prerequisite, Course 1, 2. Lectures and recitations, *two hours a week;* laboratory, *three hours a week.* One breakage card. *Three credit hours.* MR. BOGAN

48. Mineralogy and Crystallography.—This course is offered in alternate years. Given in 1939-40. Prerequisite, Chemistry 32. Classroom, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Three credit hours.* MR. TREFETHEN

49. 50. Undergraduate Thesis.—The thesis will embody the result of the study of a special chemical problem in the laboratory. It will partake of the nature of original investigation. Open only to seniors. *Hours arranged. One to three credit hours.* THE CHEMICAL STAFF

51; 52. Organic Chemistry.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 32 or at least C

grades in Courses 1, 2. Suitable for graduate credit only 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

54. Advanced Inorganic Chemistry.—Advanced theoretical and descriptive inorganic chemistry emphasizing periodic relationships. Prerequisite, Chemistry 71. Given in 1939-40 and alternate years. Lectures and recitations, *two hours a week. Two credit hours.* MR. BOGAN

55. Contemporary Chemistry.—A study of the 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.—Recent developments in the field of atomic and molecular structure; isotopes; radioactivity; etc. Prerequisite, Course 71. Given in 1940-41 and alternate years. Not given in 1939-40. Lectures and recitations, *two hours a week. Two credit hours.* MR. BRANN

57 (58). Principles of Metallography.—The microstructure of ferrous and non-ferrous metals and alloys with emphasis on the principles of equilibrium and physical chemistry as related to their properties. Open only to exceptional students. Prerequisite, Course 72. Lectures and recitations, *two hours a week. Two credit hours.* MR. BRADT

61. Technical Analysis.—The analysis of certain technical products of particular interest to chemical engineers. Prerequisite, Course 41. Suitable for graduate credit only as a minor subject. Classroom, *one hour a week;* laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. BOGAN

63. Intermediate Quantitative Analysis.—A continuation of Course 41, taking up some of the more difficult volumetric and gravimetric methods. Designed particularly for chemists. Prerequisite, Course 41. Suitable for graduate credit only 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.—This is a course in the detailed study of fundamental principles of chemistry and the application of them to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 41 and Physics 1b, 2b. Calculus is very desirable. Suitable for graduate credit only as a minor subject. (Engineering Physics students may take the spring semester course under the heading of 72a without laboratory for *three credit*

hours.) Classroom, *three hours a week;* laboratory, *four 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. Chemical and physical changes, crystalline form, density and refractive index observed under the microscope. Unknowns, permanent slides, microphotographs, micromeasurements, etc. Open only to exceptional students. Prerequisite, Course 41. Laboratory (including recitations), *six hours a week.* One breakage card. *Two credit hours.* MR. OTTO

84. Metallurgy.—A descriptive course dealing with ferrous and non-ferrous metals and alloys. Prerequisite, Course 71, 72. Classroom, *three hours a week. Three credit hours.* MR. MARTIN

86. Journal Seminar.—A study of chemical literature and chemical methods. Prerequisite, Course 52 and senior standing. Classroom, *two hours a week. Two credit hours.* MR. BRADT

89. Organic Preparations.—The preparation of a number of organic compounds. Objective of the course is the utilization of varying types of techniques and procedures as illustrated by a selected group of organic preparations. Prerequisite, Course 51 and 52. Suitable for graduate credit only as a minor subject. Laboratory, *six hours a week. Two credit hours.* MR. BRADT

90. Organic Analysis.—Identification of pure organic compounds and the technique of preparing derivatives and manipulating small quantities of substances. Courses 41, 51, and 52 are prerequisites. Laboratory, *four hours a week. Two credit hours.* MR. BRADT

91. 92. Intermediate Organic Chemistry.—A course involving the general and also special topics of organic chemistry. Prerequisite, Course 51, 52. Recitation, *three hours a week. Three credit hours.* MR. BRADT

95. Thermodynamics.—A brief study of the laws of thermodynamics as applied to chemical problems. Prerequisite, Course 71, 72. Classroom. *three hours a week. Three credit hours.* MR. BRANN

96. Electrochemistry.—A brief review of the theory followed by a study of the more important industrial applications. Prerequisite, Course 71, 72. Classroom, *three hours a week. Three credit hours.* MR. BRANN

97. 98. Methods of Teaching Chemistry.—A course for prospective teachers of chemistry, which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstrations, lesson plans, testing programs; texts, laboratory

manuals; grading and scoring; bibliography. Text, problems, and journal assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or 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.—A course involving advanced study of special topics in organic chemistry including electro-organic, organic plastics, theories of valence, dyes, and the applications of physical chemistry to organic. Prerequisite, Course 91, 92 or a B grade in Chemistry 51, 52. Lectures and recitations, *two hours a week. Two credit hours.* MR. BRADT

173. Advanced Physical Chemistry.—A course in advanced physical chemistry dealing with 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

194. Electrochemistry.—A laboratory course involving experimental work in the field of electro-organic and inorganic syntheses, electroplating, electrorefining, electro-thermo syntheses, and electrochemical measurements. 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.—This course includes the application of chemical analyses to material and energy balances as applied to various operations or pieces of equipment, such as the combustion of fuels, crystallization, a rotary kiln, a sulfur burner, etc. Prerequisites, Chemistry 1, 2. Lecture and recitation, *three hours a week. Three credit hours.* MR. NOLAN

49. 50. Thesis.—The thesis will embody the result of the study of a special chemical engineering problem in the laboratory. It will partake of the nature of original investigation. Open only to seniors. Hours arranged. *One to three credit hours.* THE CHEMICAL ENGINEERING STAFF

75; 76. Elements of Chemical Engineering.—A study of the application of unit operations to engineering practice, such as heat transfer, evaporation, and distillation. Prerequisites, Course 33 and simultaneous enrollment in Chemistry 71. Classroom, *three hours a week. Three credit hours.* MR. CAULFIELD

77. Inorganic Technology.—This is a partially descriptive course with considerable emphasis on the quantitative application of principles of unit operations and physical chemistry to such processes as the sulfuric, nitric, caustic, fertilizer, starch, and paper industries. Prerequisites, Course 76 and Chemistry 72. Lecture and recitation, *three hours a week. Three credit hours.* MR. NOLAN

78. Organic Technology.—This course is similar to Course 77 except that more emphasis is placed on processes common to several organic industries, such as nitration, sulfonation, saponification, hydrogenation, etc. Prerequisites, Course 76, Chemistry 52 and 72. Lecture and recitation, *three hours a week. Three credit hours.* MR. BRAUTLECHT

81. 82. Chemical Engineering Laboratory.—The practice in unit operations and processes, particularly those emphasized in Courses 75, 76. Formal reports are an essential part. Prerequisites, Course 33 and Chemistry 71. Classroom, *one hour a week;* laboratory, *four hours a week.* Two breakage cards. *Three credit hours.* MR. JENNESS

84. Unit Processes.—This course includes the quantitative application of unit operations as actually used in process work, such as the drying of paper on a paper machine, the absorption of sulfur dioxide in a limestone tower, and heat and material transfer in a digester. Most of the equipment utilized is special equipment available in the Pulp and Paper division. Prerequisite, Course 81. Classroom, *one hour a week;* laboratory, *four hours a week.* One breakage card. *Three credit hours.* MR. CAULFIELD AND STAFF

87. Chemical Engineering Practice.—The course consists of group investigations of the operation of equipment in neighboring industrial plants. The major portion of time is spent at the plant, with additional literature and experimental work at the University. The course is open only to Chemical Engineering students in the senior and graduate years. *Time arranged.* One breakage card. *One to three credit hours.* MR. NOLAN

88. Chemical Engineering Practice.—This course is similar to Course 87 except that problems investigated will be more of a research nature involving some design and economic investigation. Prerequisite, B grade in Course 87. Laboratory, *nine hours a week.* One breakage card. *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. Chemical Engineering Economic Balance.—This course includes the application of economics to chemical engineering unit operations, in so far as it determines the optimum size and nature of process equipment. For instance, the most economic surface area of a heat interchanger for heating feed water with exhaust furnace gas is controlled by first cost, power costs, desired terminal temperatures, etc. Prerequisite, Course 82. Classroom, *three hours a week. Three credit hours.*

THE CHEMICAL ENGINEERING STAFF

176. Chemical Engineering Plant Design.—At the start of this course each student will be assigned some chemical engineering process for which he will be required to design a plant. This will include selection of equipment, plant layout, and cost analysis. Prerequisite, Course 175. Classroom, *three hours a week. Three credit hours.*

THE CHEMICAL ENGINEERING STAFF

Courses in Pulp and Paper Technology

PROFESSOR BRAY; ASSISTANT PROFESSOR CAULFIELD

49. 50. Thesis.—The thesis will embody the result of the study of a special problem in the laboratory. It will partake of the nature of original investigations. Hours arranged. *One to three credit hours.*

MR. CAULFIELD AND STAFF

65. Pulp Technology.—A lecture course on the manufacture of the various kinds of wood pulps and the chemistry involved in present-day pulp making. Prerequisites, Chemistry 1, 2, 32, and 41. Classroom, *three hours a week. Three credit hours.*

MR. BRAY

66. Paper Technology.—A lecture course on the processes of manufacturing paper. Prerequisite, Course 65. Classroom, *three hours a week. Three credit hours.*

MR. BRAY

67. Pulp Manufacture.—Laboratory work. Unit-process work on semi-commercial scale production of various kinds of wood pulps, analysis of pulp-making raw materials, etc. Prerequisites, Chemistry 1, 2, 32, 41, and Pulp and Paper 65. Laboratory, *eight hours a week for first nine weeks.* One breakage card required. *Two credit hours.* MR. BRAY, MR. CAULFIELD

68. Paper Manufacture.—A laboratory course, unit process work, in which papers of various kinds are made on semi-commercial equipment including Jordan and cylinder paper machine. Prerequisite, Course, 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.*
MR. BRAY

82. Pulp Coloring and Bleaching.—A laboratory course involving an examination and application of the various classes of dye stuffs, and the methods of bleaching various kinds of pulps. 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.—Application of the theory of the unit operations of chemical engineering to the processes of pulp and paper manufacture, that is, transfer of fluids, heat and material balances, absorption, drying, recovery of chemicals, etc. Prerequisites, Cemistry 72 and Chemical Engineering 76. Recitation and lecture, *three hours a week. Three credit hours.* MR. CAULFIELD

(85); 86. Cellulose.—A laboratory course dealing with the characteristics and derivatives of various kinds of pulps (cellulose). Prerequisite, Chemistry 1, 2, 32, 41, and Pulp and Paper 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, Chemistry 32, 41 and Pulp and Paper 65 and 66. Laboratory, *four hours a week.* One breakage card required. *Two credit hours.*
MR. BRAY

88 (89). Pulp and Paper Practice.—The course consists of group investigations of the operation of equipment in neighboring industrial plants. The course is open to qualified Pulp and Paper students in the senior or graduate year. (This is the same course as ChE 87 and 88.) *Time arranged. One to three credit hours.* MR. NOLAN

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.—A summer course of six weeks in paper-mill work is offered, through the courtesy of the International Paper Company, which will coördinate the work of the various departments of the mill. The course is 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. Prerequisite, Chemistry 32, 41 and Chemical Engineering 33. *Time and credit, arranged.* MILL STAFF AND MR. BRAY

Equipment obtained and receipted for by a student and not returnable at the end of a course, as well as a few non-returnable supplies and a few special chemicals, will be charged to the student at cost. The supply room will be open during all laboratory periods. Breakage cards may be obtained only at the Treasurer's office, and all students taking laboratory courses are required to have one. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the chemistry storeroom.

For 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, SPRAGUE, AND LEAVITT; ASSOCIATE PROFESSOR LYON; ASSISTANT PROFESSORS STEPHENSON AND TREFETHEN; MR. BENNETT

1. Plane Surveying.—Recitations and lectures covering the general theory of plane surveying and plotting. A study of surveying instruments, their adjustments and use, followed by a study of the methods commonly used for surveying and plotting. Classroom, *two hours a week. Two credit hours.* MR. STEPHENSON

2. Plane Surveying.—Recitations and lectures covering surveying instruments and their use, followed by a discussion of the various methods commonly used for Plane Surveying. Prerequisite, Mathematics 1. Classroom, *two hours a week for twelve weeks;* field work, *three hours a week* and classroom, *one hour a week for six weeks. Two credit hours.*

MR. STEPHENSON

3. Field Work and Plotting.—This course consists of practice in the use of the 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. STEPHENSON, 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. STEPHENSON

6. Land Surveying.—This course is designed to familiarize the student with the methods employed by the General Land Office for laying out public lands and with such other methods as may have been used by the various states. Prerequisites, Courses 1 and 3. Classroom, *two hours a week;* field work, *nine hours a week during the last six weeks. Three credit hours.* MR. STEPHENSON

8. Construction Surveying.—A course covering the various problems which the man surveying for various types of construction encounters. The legal aspect of surveying, methods employed, and the necessary computations are studied. Prerequisites, Courses 1 and 3. Classroom, *two hours a week 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. Given in 1939-40 and alternate years. 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 geographic 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. SPRAGUE, MR. STEPHENSON

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

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, *two hours a week;* laboratory, *three hours a week. Three credit hours.*
MR. SPRAGUE

35. Hydraulics.—A short course which includes the main principles given in Course 26. Given to students in the Departments of Mechanical and Electrical Engineering. Prerequisite, Mechanics 51. Classroom, *two hours a week. Two credit hours.* MR. LYON

49. 50. Thesis Work.—The study of and report upon some original investigation or design. 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. SPRAGUE

60. Drafting.—The structures designed in Course 52 are detailed in this course. *Six hours a week. Two credit hours.* MR. SPRAGUE

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. SPRAGUE

72. Highway Engineering.—An advanced course of lectures and recitations on various highway problems; general survey of higher types of pavements; city planning; specifications; cost keeping; maintenance and repair work as discussed in engineering periodicals. Prerequisite, Course 63. Classroom, *two hours a week. Two credit hours.* MR. LEAVITT

74. Sanitary Engineering.—Lectures and recitations dealing with municipal and rural sanitation. Sanitation of milk and other foods; control

of mosquitoes, flies, and rodents. Prerequisite, Course 33. Classroom, *two hours a week. Two credit hours.* MR. SPRAGUE

79. Structural Geology.—Principles and characteristics of earth structures. Prerequisite, Course 25. Given in 1938-39 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 calculations of earthwork. Trail location and construction. Prerequisites, Courses 1 and 3. *Two credit hours.*

11s. Highway and Railroad Surveys.—This course consists of making preliminary and location surveys for a highway and a railroad, each approximately two miles in length, establishing grades and setting grade stakes. The notes are plotted and calculations are made as to the amount of earthwork. Prerequisites, Courses 1, 3, and 9. *Three credit hours.*

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 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 ROBERTS AND CRABTREE; MR. BLISS

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

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. ROBERTS

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 re-

quired concurrently. Classroom, *two hours a week;* laboratory, *three hours a week. Three credit hours.* MR. CRABTREE

15; 16. Electric Circuits and Machinery.—Fundamental theory of sinusoidal alternating currents, including representation by vectors and solutions by trigonometric and algebraic methods. Underlying principles and circuit problems common to all types of electrical apparatus; design and performance of direct-current machinery. Theory of polyphase alternating-current systems, non-sinusoidal wave forms, and electrical transmission. Introduction to the analysis of transient phenomena. Lectures, recitations, and problems. Prerequisite, Course 2. Fall semester: classroom, *three hours a week. Three credit hours.* Spring semester: classroom, *three hours a week;* computation, *three hours a week. Four credit hours.* MR. HILL

17; 18. Electrical Laboratory.—Electrical measurements; operation and testing of direct-current generators and motors. Introductory experiments of alternating-current circuits and machines. Application of the work of Courses 1, 2, 15, and 16. Prerequisite, Course 2; Courses 15 and 16 are concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. ROBERTS, MR. CRABTREE

22. Telephone Communication.—Characteristics of speech; the hearing mechanism; mechanical and electrical characteristics of telephone apparatus; the subscriber's set; common battery and local battery circuits; dial systems; repeaters; traffic studies. Lectures and recitations. Prerequisite, Course 15. Course 24 is required concurrently. Classroom, *two hours a week;* seminar, *two hours a week. Three credit hours.* MR. CREAMER

24. Telephone Laboratory.—Microphonic efficiency of telephone apparatus; measurements of articulation and audition; local and common battery systems; phantom and composite circuits; repeaters; transmission testing. Course 22 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. BLISS

30 (35). Direct Current Machinery.—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the civil, mechanical, and chemical engineer. Recitations and problems. Classroom, *two hours a week. Two credit hours.*

MR. CRABTREE, MR. BLISS

31 (36). Alternating Currents.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. Prerequisite, Course 30 or 35. Classroom, *two hours a week. Two credit hours.* MR. ROBERTS, MR. CRABTREE, MR. BLISS

33 (38). Electrical Laboratory.—This course is based on Courses 30, 31, 35, and 36. Operations of direct-current and alternating-current generators and motors; electrical power measurements. Prerequisite, Course 30 or 35; Course 31 or 36 concurrent. Laboratory, *three hours a week. One and one-half credit hours.* MR. ROBERTS, MR. CRABTREE, MR. BLISS

49. 50. Thesis Work.—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees. *One to three credit hours.* MR. 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, *three hours a week;* computation, *four hours a week. Five credit hours.* MR. BARROWS

56. Electrical Power Plants.—Electrical equipment of power plants, methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. Prerequisites, Courses 15, 16, and 51. Classroom, *three hours a week. Three credit hours.* MR. BARROWS

58. Electrical Power Transmission.—Theory, design, and calculation of power-transmission systems. Problems of inductive interference, insulation, protection, stability, and control. Lectures, recitations, and problems. Prerequisites, Courses 16 and 51. Classroom, *two hours a week;* supervised computation, *three hours a week. Three credit hours.* MR. 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

63. Electrical Transportation.—Mechanics of vehicle movement; estimates of power and energy requirements of trains and other transporta-

tion units. Engineering and economic principles governing the selection and design of electrical equipment for railways, buses, elevators, and ships. Lectures, recitations, and problems. Prerequisite, Course 15, 16. Course 51 is concurrent. Classroom, *three hours a week. Three credit hours.*

MR. HILL

75; 76. Electrical Laboratory.—Alternating-current instruments and measurements; experimental work on single-phase circuits, and polyphase systems. Operation and testing of alternating-current generators, motors, transformers, and converters. Prerequisites, Courses 15, 16, 17, and 18; Course 51 is concurrent. Classroom, *one hour a week;* laboratory, *three hours a week. Two and one-half credit hours.* MR. ROBERTS

81. Communication Engineering.—Network theory; equivalent circuits; filters; equalizers; carrier-current systems. Lectures and problems. Prerequisite, Course 22. Computation, *four hours a week. Two credit hours.*

MR. CRABTREE

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. CREAMER

84. Telephone Transmission.—Application of hyperbolic functions to transmission line problems; transmission of speech over cable and open wire circuits; loaded lines; design of artificial lines. Lectures and problems. Prerequisite, Course 81. Computation, *four hours a week. Two credit hours.*

MR. CRABTREE

85; 86. Radio Engineering.—Detailed study of inductance coils, condensers, and resistors for radio frequencies; vacuum-tube theory; extended analysis of oscillatory circuits and methods of excitation; radiation and transmission phenomena; comparisons of methods of transmission and reception; theory of modulation; radio measurements. Lectures, recitations, and design problems. Prerequiste, Course 22. Fall semester: classroom, *two hours a week;* computation, *two hours a week. Three credit hours.* Spring semester: classroom, *two hours a week;* seminar, *two hours a week. Three credit hours.* MR. CREAMER

87. Engineering Acoustics.—This course, which is closely correlated with Courses 81, 85, and 86, deals with studio and theater acoustics, and the dynamical systems of microphones, receivers, and loud speakers. Lectures, recitations, and problems. Prerequisite, Course 22. Classroom, *two hours a week. Two credit hours.* MR. CREAMER

88. Radio Laboratory.—Use of wave-meters; radio-frequency amplifiers; tests of tube transmitters and receivers; continuous wave and 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

91; 92. Theory of Electricity.—A study of the more advanced mathematical and physical theories of electricity with reference to their engineering applications. Wave propagation, radiation, gaseous conduction, and the analysis of transient phenomena by the methods of Heaviside's operational calculus. Problems, conferences, and seminar. Either or both semesters. *Two credit hours.* MR. CLOKE, MR. HILL

156. Advanced Electrical Power Plants.—Study of the latest designs and methods of central station practice. Location, parallel operation, super-power practice, and economics. Lectures, studies, and problems. Prerequisites, Courses 51, 56, and 76. Classroom, *two hours a week. Two credit hours.* MR. BARROWS

157; 158. Advanced Electrical Power Transmission.—A detailed study of the advanced theory of electric power circuits in the normal steady state and under transient and unbalanced conditions. Analysis of the performance of transmission systems, distribution networks, and connected apparatus. Engineering and economic problems of design, construction, and operation. Lectures, analytical studies, and problems. Prerequisite, Course 58. Classroom, *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. Lec-

tures, 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 differential 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 a week. One and one-half credit hours.*
MR. CREAMER

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.—A continued study of the making of working drawings of simple machines, together with instruction and practice in blueprinting. Drawing room, *six hours a week. Two credit hours.*

MR. KENT, MR. 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 222.

LECTURE COURSES

Gc 5. Orientation.—A course of lectures by members of the staff of the College and other faculty members for Technology freshmen. Designed to better acquaint them with the different fields of study and the opportunities in these fields. Given Monday morning at 11:00 throughout the first semester. *One-half credit hour.* MR. STEPHENSON, MR. CLOKE

Gc 6. Orientation.—A general lecture course given Monday morning at 11:00 throughout the second semester, consisting of addresses by engineers and business and professional men for Technology freshmen. Open to the public. *One-half credit hour.* MR. STEPHENSON, MR. CLOKE

MECHANICAL ENGINEERING

PROFESSOR WATSON; ASSOCIATE PROFESSORS PRAGEMAN AND TAYLOR; ASSISTANT PROFESSOR SPARROW; MR. DAVEE; MR. PERKINS; MR. LEKBERG; MR. OSGOOD

1. 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. 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. DAVEE

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 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

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 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. TAYLOR

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, and 21 or 22. Recitation, *three hours a week. Three credit hours.*
MR. WATSON, MR. TAYLOR

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. WATSON, MR. TAYLOR

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. TAYLOR, 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

41. Mechanical Laboratory.—A course arranged for seniors in Electrical Engineering. Calibration of instruments; testing strength of materials;

testing of steam engines, gas engines, hydraulic testing. Prerequisite, Course 44. Laboratory, *three hours a week. One and one-half credit hours.*

MR. SPARROW

43. Heat Engineering.—A short course for senior chemical engineers covering the laws of thermodynamics and their application to heat motors, air compressors, refrigerating machinery, and power-plant equipment. Recitation, *three hours a week. Three credit hours.* MR. SPARROW

44. Heat Engineering.—A course similar to Course 33, given to electrical engineers. Prerequisites, Mathematics 8 and Physics 2. Recitation, *three hours a week. Three credit hours.* MR. SPARROW

45. Heat Engineering.—Simple and compound steam engines; steam turbines; gas engines; gas producers; fuels and combustion; steam and gas power-plant equipment and operation. For seniors in Electrical Engineering. Prerequisite, Course 44. Recitation, *three hours a week. Three credit hours.*

MR. SPARROW

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. TAYLOR, 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. TAYLOR, 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, MR. TAYLOR

84. Industrial Management.—Lectures and recitations on the various types of organization for industrial enterprises and systems of manage-

ment. It deals with types of ownership, control, selection of plant site, and the elements of machine production, time and motion study, wage systems, and selection of personnel. Prerequisites, Course 24 and Economics 2b. Course 87 accompanying. 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. Computation, *six 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

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. TAYLOR

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

98. Factory Organization and Management.—Lectures and assigned reading bearing upon various types of organization for industrial enterprises; planning and equipping of factory plants; systems of managements. Recitation, *two hours a week. Two credit hours.* MR. PRAGEMAN

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 Flow.—A more theoretical study of flow of gases, vapors, and fluids than in undergraduate courses. Application to fans, blowers, compressors, steam turbines, refrigeration machinery, pumps, piping, and lubrication problems. Laws of similitude, effects of viscosity, applications of dimensional analysis. Classroom, *three hours a week. Three credit hours.*

MR. WATSON

Inspection Trip.—A visiting trip of one week's duration to various manufacturing and power plants. This trip is open only to seniors who are eligible for graduation. A complete schedule of the trip is prearranged and a member of the Department staff is in charge of the party.

MECHANICS

PROFESSOR WESTON

51; 52. Mechanics.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding center of gravity and moment of inertia; the study of stresses and strains in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment, and elastic curves; torsional stresses and theories of stress in long columns. Recitation, *five hours a week. Five credit hours.*

53; 54: Mechanics.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; the study of simple stresses and strains with such applications as the time permits. Recitation, *three hours a week. Three credit hours.*

101. 102. Advanced Mechanics.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function with applications to problems in gravitation, 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; MAJOR HENKLE; MAJOR COOPER; CAPTAIN LOUPRET; 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 bat-

teries, 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 LOUPRET

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 Athletic Board.

The schedules of all sports are arranged with the interest of both the University and the individual members of teams in mind. Letters and numerals are awarded by the Athletic Board to those men who earn them in competition in various sports. Admission to all 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 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 him to establish habits of recreation which will serve to promote healthful physical activity while in college and in his life after graduation. Especial emphasis will be placed upon out-of-door recreational exercises during the fall and spring, while the gymnasium will be used to its full extent during the winter months.

The Intramural Athletic Association is a part of the Physical Education Department, and was organized for the purpose of fostering athletics for men who are not participating in varsity sports at the time and for all others at any time.

Competition is carried on by twenty-three teams in 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 Zoölogy 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 apparatus 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. Coöperation with the home. *Two hours a week, 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 substituted 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, *four credit hours.*

7. The Principles of Physical Education and Hygiene.—An introductory course in the interpretation and objectives of physical education. Open to juniors who are preparing to teach. *Three hours a week and field work, two credit hours.*

8. Physical Examination and Measurements.—This course covers the purposes, management, and technique of physical examination and first aid with the exception of the determination of organic capacity for activities. Open to juniors who have fulfilled the requirements of Zoölogy 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 Certifiacte 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 departments: 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 April 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 each for graduates of the three colleges in the University and the School of Education. Holders of these scholarships may be called upon to render a reasonable amount of assistance in their major department.

Maritime Provinces Graduate Scholarships.—By action of the Trustees of the University, a graduate scholarship is available annually in each of the four academic divisions of the University, on a competitive basis, for graduates of the colleges and universities in the Provinces of New Brunswick, Nova Scotia, and Prince Edward's Island. These scholarships have a value of $250, equivalent to a full year's tuition for a student residing without the State.

THE COE RESEARCH FUND

The Trustees of the University have set aside the sum of $100,000 to form a permanent fund, the proceeds of which are to be used for carrying on various kinds of research work within the University. Applications for grants from this fund should be addressed to Professor E. R. Hitchner, Secretary. It is hoped that this fund may later be increased by grants from other sources.

DEGREES

The degrees of Master of Arts, Master of Science, and Master of Education are granted to candidates who hold suitable bachelor's degrees and fulfill the requirements of residence and scholarship.

A candidate for an advanced degree must give evidence by his previous record that he is qualified to do graduate work of a satisfactory grade. If he is a graduate of another institution he is required to submit, with his plan of study, credentials covering the courses pursued and the standing attained. If he is a graduate of the University of Maine he must present his record from the Registrar's office.

REQUIREMENTS FOR THE MASTER'S DEGREE

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 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 candidate shall pass with distinction.

Courses of study intended primarily for graduate work are numbered above 100 in the catalog, but courses numbered 51 to 100 inclusive may be counted upon approval. Courses numbered 50 or under may not be accepted for graduate credit.

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.

Zoölogy: 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 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 for 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 presentation of a satisfactory thesis, which shall constitute an original contribution to the advance of engineering, is required of all candidates. The candidate must hold a position of responsibility and must have accomplished professional work of eminence for a period of at least five years subsequent to graduation. A full and complete statement covering the professional experience of the candidate must be presented at the time of registration. Candidates are expected to be present in person to receive their degrees.

UNIVERSITY OF MAINE STUDIES

The *University of Maine Studies,* Second Series, are issued under the direction of the Faculty of Graduate Study, for the purpose of publishing notable pieces of research work produced by graduate students and members of the faculty.

Copies of the *Studies* and lists of subjects may be obtained from the University Library.

Maine Agricultural Experiment Station

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. 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 Official Inspections as they are published. Upon request, any of the Bulletins or Official Inspections will be mailed free of charge to residents of Maine.

Summer Session

The Summer Session begins the first week in July and continues for six weeks. The faculty is made up mainly of members of the University staff of professorial rank and visiting professors from other institutions. About 135 courses in nineteen departments are now offered. Instruction is given in most of the subjects taught in the College of Arts and Sciences as well as in Chemistry, 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 admission and the same regulations apply as during the regular academic year.

The Session is primarily for the benefit of teachers and superintendents of Maine and other states who desire to take professional courses in the field of Education or to pursue other subjects which may be helpful to them in connection with their work. Hence special attention is given to teachers' courses in the various subjects offered. The Session also affords opportunities for students in the University of Maine or other similar institutions to secure credits toward a degree and complete their work in a shorter time than would otherwise be possible. Normal-school graduates who are admitted to advanced standing as candidates for a bachelor's degree in the School of Education may do a considerable part of their work in the Summer Session.

Properly qualified graduates of colleges or universities may enroll in most departments as candidates for a master's degree and complete their work by attendance at the Summer Session. The minimum residence requirement in such cases is four sessions.

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 1940 are Monday, July 1, and Friday, August 9. 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 individual 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 if such credit is desired.

Alumni Associations

GENERAL ASSOCIATION

President, Fred D. Knight '09, 39 Boylston St., Boston, Mass.
Vice president, George D. Bearce '11, Bucksport
Clerk, Maurice D. Jones '12, Orono
Treasurer, Paul D. Bray '14, Orono
Executive Secretary, Charles E. Crossland '17, Orono
Assistant Secretary, Philip J. Brockway '31, Orono

ALUMNI COUNCIL

Members at Large

	Term expires
Raymond H. Fogler '15, Chicago, Ill.	1940
Norman H. Mayo '09, 329 Commercial St., Portland	1940
George S. Williams '05, 9 Green St., Augusta	1940
Mrs. Hamlyn N. Robbins '19, R.F.D. #1, Scarboro	1941
Mrs. Merrill Bowles '21, 176 Nowell Rd., Bangor	1941
Richard E. McKown '17, Bar Harbor	1941
Robert F. Thurrell '15, East Wolfeboro, N. H.	1941
Harold Cooper '15, 77 Davis Ave., Auburn	1941
Earle R. Gowell '30, Rockland	1942
F. Drummond Freese '15, 144 Broadway, Bangor	1942
Andrew J. Beck '13, Washburn	1942
Miss M. June Kelley '12, 27 Florence Ave., Norwood, Mass.	1942
Harold J. Shaw '14, Sanford	1942

College of Agriculture

Frank W. Hussey '25, Presque Isle	1941

College of Arts and Sciences

Hazen A. Ayer '24, 50 Congress St., Boston	1942

College of Technology

Walter H. Burke '06, 2 Rector St., New York City..... 1941

College of Law

Robert W. DeWolfe '07, 102 Exchange St., Portland..... 1940

Alumni Representative on Board of Trustees

Harold M. Pierce '19, P.O. Box 58, Bangor..... 1942

LOCAL ASSOCIATION OFFICERS

MAINE

Androscoggin Alumnae—President, Mrs. Wm. F. Schoppe '08, R.F.D. #2A, Auburn.

Androscoggin Alumni—President, Henry W. Turgeon '20, 10 Avon St., Lewiston; Secretary, Mrs. Robert Pendleton '33, 500 Maine St., Lewiston.

Central Maine—President, Wallace E. Parsons '11, Keyes Fibre Co., Waterville; Secretary, Mrs. John Turbyne '34, 60 Pleasant St., Waterville.

Cumberland County—President, Hugh H. Morton '32, 139 Hawkes St., Westbrook; Secretary, John W. Sturgis '31, 91 State St., Portland.

Franklin County—President, Erroll Dearborn '22, Farmington; Secretary, J. Winston Hoyt '35, Farmington.

Hancock County—President, George D. Bearce '11, Bucksport; Secretary, Gardner B. Tibbetts '22, 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 '14, Wiscasset; Secretary, Selma Gregory '34, Boothbay Harbor.

Maine Club—President, Thomas Murphy '22, Montgomery Ward Co., Lewiston; Secretary, John L. McCobb '25, 62 Winter St., Auburn.

Merrymeeting Bay—President, Worthen E. Brawn '17, Pejepscot Paper Co., Brunswick; Secretary, Mrs. L. Everett Curtis '23, 15 Berry St., Brunswick.

North Aroostook—President, Ray D. Hews '13, Presque Isle; Secretary, Mrs. Jessie L. Oak '28, Presque Isle.

Oxford County—President, Emerson Stymiest '30, Rumford Center; Secretary, Mrs. Minerva Anderson '20, 209 York St., Rumford.

Penobscot County—President, Ralph L. Brown '25, 56 P. O. Square, Bangor; Secretary, Dr. Joseph M. Murray '25, Coburn Hall, U. of M., Orono.

Piscataquis County—President, Claude I. Sidelinger '17, Monson; Secretary, Mrs. Hugo Cross '20, Guilford.

Portland Alumnae—President, Mrs. Olive C. O'Brien '20, 325 Spring St., Portland; Secretary, Miss Dorothy Frye '35, 76 Portland St., Portland.

Somerset County—President, Ernest C. Butler '01, Skowhegan; Secretary, Mrs. Lucy Sheive '27, 36 Pleasant St., Skowhegan.

South Aroostook—President, W. Jerome Strout '29, 39 Franklin St., Houlton; Secretary, Mrs. Dwight Webber '31, 30 Highland Ave., Houlton.

South Kennebec—President, Ralph G. Kennison '22, 9 Pike 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, Extension Service, Belfast.

Washington County—President, Oscar L. Whalen '19, 105 Water St., Eastport; Secretary, Mrs. Emma Means '16, Machias.

York County—President, Frederick A. Hobbs '96, Alfred; Secretary, Stacy F. Billings '31, North Berwick.

California

Southern California—President, George E. Springer '10, 1128 West 50th St., Los Angeles; Secretary, E. Leith Chase '26, 842 N. Alexandria Ave., Hollywood.

Connecticut

Hartford—Vice President, Herbert I. Trask '32, 700 Main St., Hartford; Secretary, Donald Henderson '31, 540 Windsor Ave., Windsor.

District of Columbia

District of Columbia—President, Miss Marion Lord '27, 2445-15th St., N.W., Washington; Secretary, Miss Mildred H. Merrill '13, 1673 Columbia Rd., Washington.

Illinois

Chicago—President, Alvah R. Small '04, 207 East Ohio St., Chicago; Secretary, Rollins A. Seabury '12, 1573 Thacker St., Des Plains, Ill.

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, Lasell Junior College, Auburndale.

Boston Alumni—President, Warren H. Preble '21, 75 Federal St., Boston; Secretary, Duncan Cotting '38, 151 Oakleigh Rd., Newton.

Western Massachusetts—President Paul Langlois '34, 2 Main St., Agawam; Secretary, Frederick M. Lindahl '24, 28 Worthy Ave., West Springfield.

Worcester County—President, Arthur J. Staples '27, 61 Holden St., Worcester; Secretary, Mrs. Arthur J. Staples, 61 Holden St., Worcester.

MICHIGAN

Detroit—President, Ralph E. Thomas '23, 14030 Cloverlawn Ave., Detroit; Secretary, Mrs. Almon Hovey '24, 41 Kensington Blvd., Pleasant Ridge.

MINNESOTA

Northwestern—President, 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, Robert F. Thurrell '15, East Waldoboro; Secretary, Eli A. Marcoux '21, Hotel Carpenter, Manchester.

White Mountain—President, Benjamin G. Hoos '24, 145 Sweden St., Berlin; Secretary, Robert Rich '18, 173 Main St., Berlin.

NEW YORK

Central New York—President, Vernon C. Bryant '26, 274 Woodbine Ave., Syracuse; Secretary, Richard G. Chase '36, 1119 Lancaster Ave., Syracuse.

New York Alumnae—President, Mrs. Evelyn Weaver '23, 88 DePeyster Ave., Tenafly. N. J.; Secretary, Mrs. Doris Marden '20, 28 Morris Rd., Tenafly, N. J.

New York Alumni—President, George L. Freeman '03, 420 Lexington Ave., New York City; Secretary, Clarence E. Bassett '29, 141 East 44th St., New York City.

Northeastern New York—President, Everett G. Ham '16, Seymour Court, Troy; Secretary, Henry W. Chadbourne '02, 29 Bruce St., Scotia.

Western New York—President, Roland L. Turner '04, 52 Hyman Blvd., Buffalo; Secretary, Merrill Eldridge '38, 225 Second St., Niagara Falls.

OHIO

Cleveland—President, Allen M. Knowles '04, 3166 Washington Blvd., Cleveland Heights; Secretary, George E. Power '28, 9634 Silk St., Cleveland.

PENNSYLVANIA

Lehigh Valley—President, Harold T. Pierce '29, 1146 Turner St., Allentown; Secretary, Ernest B. Scott '26, Construction Dept., Pennsylvania Power & Light Co., 9th and Hamilton Sts., Allentown.

Philadelphia Alumni—President, Dr. Edward G. Kelley '29, 10 So. Hillcrest Rd., Springfield; Secretary, Dean Gertrude D. Peabody '20, Temple University, Philadelphia.

Western Pennsylvania—President, Charles Pratt '10, 223 Park Entrance Drive, Mt. Lebanon, Pittsburgh; Secretary, Ralph R. Parkman '26, 1434 Justine St., Pittsburgh.

RHODE ISLAND

Providence—President, Earle L. Ferren '20, 707 Turks Head Bldg., Providence; Secretary, Henry Turner '22, 10 Harlem St., Rumford.

VERMONT

Vermont—President, Charles B. Adams '13, 19 Union St., Waterbury; Secretary, Mrs. Constance Thompson '24, Ryegate.

SPECIAL ASSOCIATIONS

UNIVERSITY OF MAINE TEACHERS' ALUMNI ASSOCIATION—President, Frederick H Aikins '17, Windham; Secretary, Charles E. Crossland '17, Orono.

PULP AND PAPER ALUMNI—Philip S. Bolton '13, Chairman, Room 509, Statler Office Bldg., Boston, Mass.

CLASS OFFICERS

1872—

1873—Secretary, George H. Hamlin, Main St., Orono

1874—

1875—

1876—Secretary, E. M. Blanding, 46 Madison St., Bangor
1877—Secretary, E. F. Danforth, Skowhegan
1878—Secretary, C. C. Chamberlain, 113 R. R. St., Enderlin, N. D.
1879—Secretary, C. A. Morse, 1275 Westchester Place, Los Angeles, Calif.
1880—Secretary, Charles W. Fernald, South Levant
1881—Secretary, H. M. Plaisted, 4413 Page Blvd., St. Louis, Mo.
1882—Secretary, W. R. Howard, 44 Cedar St., Belfast
1883—Secretary, Miss Janie Michaels, Stillwater (winters in California)
1884—President, Dr. E. S. Abbott, 39 High St., Bridgton
Secretary, Leslie W. Cutter, 163 Broadway, Bangor
1885—Secretary, James N. Hart, 123 Main St., Orono
1886—Secretary, S. S. Twombley, R. 1, Box 40, Fullerton, Calif.
1887—Secretary, John S. Williams, Guilford
1888—Secretary, Thomas G. Lord, Skowhegan
1889—
1890—President, A. C. Hardison, West Main St., Santa Paula, Calif.
Secretary, George P. Gould, 9 Poplar St., Bangor
1891—President, William N. Patten, 52 Buffum St., Salem, Mass.
Secretary, William M. Bailey, 88 Broad St., Boston, Mass.
1892—Secretary, Warren E. Healey, 3 Warren St., Winchester, Mass.
1893—Secretary, Harry Smith, 51 Hammond St., Bangor
1894—Secretary, W. H. Jose, 40 Bemis St., Newtonville, Mass.
1895—Secretary, Dr. Harold S. Boardman, 172 Main St., Orono
1896—President, Paul D. Sargent, Eastland Hotel, Portland
Secretary, Joseph W. Randlette, Richmond
1897—Secretary, W. L. Holyoke, 1422 Watauga St., Kingsport, Tenn.
1898—Secretary, C. Parker Crowell, 6 State St., Bangor
1899—President, O. O. Stover, Freeport
Secretary, Allen W. Stephens, 165 North 19th St., East Orange, N. J.
1900—President, Guy A. Hersey, 18 Plaisted Ave., Bangor
Secretary, Henry F. Drummond, Box 4, Bangor
1901—Secretary, Fred L. Martin, 44 Wentworth St., Bridgeport, Conn.
1902—Secretary, Arthur E. Silver, 2 Rector St., New York City
1903—President, J. H. McCready, 87 Hillside Rd., Newton Highlands, Mass.
Secretary, E. G. Hartford, 22 Trapelo St., Brighton, Mass.
1904—President, Clifford G. Chase, Woodland
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, Canada
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, Univ. of Maine, 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
1914—President, Howe W. Hall, Rogers Hall, Univ. of Maine, Orono
Secretary, Richard F. Crocker, Fort Kent
1915—President, Raymond H. Fogler, Montgomery Ward Co., Chicago, Ill.
Secretary, Robert F. Thurrell, East Wolfeboro, N. H.
1916—Secretary, W. W. Webber, Bucksport
1917—President, Joseph A. McCusker, 28 Central Ave., Medford, Mass.
Secretary, Frank O. Stephens, 21 Academy St., Auburn
1918—President, Harry D. Watson, Lord Hall, Univ. of Maine, Orono
Secretary, Walter J. Creamer, Lord Hall, Univ. of Maine, Orono
1919—President, Dwight B. Demeritt, Winslow Hall, U. of Maine, Orono
Secretary, Harold M. Pierce, P. O. Box 58, Bangor
1920—
1921—Secretary, Miss Katherine Stewart, 21 Ohio St., Bangor
1922—President, Osgood A. Nickerson, R.F.D. #7, Bangor
Secretary, Ulmer Davis, Columbia Falls
1923—President, Henry Doten, Alumni Hall, Univ. of Maine, Orono
Secretary, Mrs. Mary P. Crandon, Stevens Hall, U. of Maine, Orono
1924—President, Earl Dunham, 490 State St., Bangor
Secretary, J. Wesley Ames, Slatersville, Rhode Island
1925—President, Dr. Joseph M. Murray, Coburn Hall, U. of Maine, Orono
Secretary, Mrs. William Schrumpf, 144 College Ave., Orono
1926—President, Oren F. Fraser, Leavitt Institute, Turner Center
Secretary, Miss Cora E. Emery, 41 Wendell St., Cambridge, Mass.
1927—President, Paul D. Lamoreau, Presque Isle
Secretary, Mrs. Crystal H. Dostie, 47 Mt. Pleasant St., Skowhegan
1928—President, David W. Fuller, 6 State St., Bangor
Secretary, Mrs. Barbara P. Skofield, 52 Harlow St., Brewer
1929—President, Robert D. Parks, Waldorf System Inc., Syracuse, N. Y.
Secretary, Mrs. Alton R. 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, 191 Center St., Bangor
Secretary, Miss Doris Gross, Stonington
1932—President, Winthrop Libby, Winslow Hall, Univ. of Maine, 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, Belfast
Secretary, Miss Madelene Bunker, 443 Beacon St., Boston, Mass.
1935—President, George L. Cobb, Montgomery Ward Co., Jamaica, N. Y.
Secretary, Miss Agnes Crowley, 59 Western Ave., Biddeford
1936—President, John Sealey, Central Maine Power Co., Augusta
Secretary, Mrs. Phyllis H. Webster, 338 Pine St., Lewiston
1937—President, Leslie M. Hutchings, 141½ Haslett St., E. Lansing, Mich.
Secretary, Mrs. Harold Woodbury, 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, Old Town
Secretary, Mrs. Donald Huff, Courtmore Apts, 117 Summer St., Malden, Mass.

Honors and Prizes Awarded

Members of Honor Societies arranged in order of their establishment at the University of Maine.

Members of Phi Kappa Phi

1939

Anna Mirdza Anderson, Derby; Alma May Armstrong, Portland; Gwendolyn Marie Baker, Brewer; Wilfred Estey Bettoney, Wollaston, Mass.; Edwin Byer, Bangor; Louis Charles Costrell, Bangor; William Henry Craig, Bingham; Philena Emily Dean, Winslow; Robert Wendell Doe, Bingham; Dana Edgecomb Drew, Patten; John Sherwood Edwards, Bridgeport, Conn.; Lucille Mae Epstein, Bangor; Marie Theresa Folsom, Orono; Ruth Evelyn Gregory, Rockland; Walton Earle Grundy, Auburn; Edna Louise Harrison, Newburgh, N. Y.; Edward Keith Hayes, Orono; Alan Fred Kirkpatrick, Old Orchard Beach; Lois Priscilla Leavitt, Orono; Priscilla Haskell Libby, Bangor; William Birney Page, Sebago Lake; Alexander Hinds Raye, Eastport; John Franklin Raye, Eastport; Madge Elizabeth Stacy, Shirley; Edith Harriet Stevens, Pleasant Point; Roger Maxim Stinchfield, Wayne; Venora Mary Stinchfield, Clinton; Marjorie Taylor, Bangor; David White Trafford, Waterville; Artemus Edwin Weatherbee, Bangor; John Franklin Whitney, Presque Isle; Barbara Fern Whittredge, Ansonia, Conn.

Members of Alpha Zeta

1939

Thomas Levi Barker, Vassalboro; Paul Everett Browne, Bethel; Edward Peter Cyr, Lille; Dana Edgecomb Drew, Patten; John Sherwood Edwards, Bridgeport, Conn.; Walton Earle Grundy, Auburn; Robert Edward Hemingway, Caribou; Herbert Arthur Leonard, Thorndike; Wendell Walker Smith, Presque Isle; Roger Maxim Stinchfield, Wayne.

1940

Richard Warren Akeley, Presque Isle; William Dwight Barrell, Turner; 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

Rockwood Norton Berry, Livermore Falls; Owen Halbert Smith, Presque Isle.

Members of Tau Beta Pi

1939

Wilfred Estey Bettoney, Wollaston, Mass.; Ruel Jotham Blackwell, Madison; Robert Billings Bramhall, Quincy, Mass.; Louis Charles Costrell, Bangor; Robert Wendell Doe, Bingham; Charles St. John Hill, Orono; William Rogers Hilton, Bangor; Chester Warren Jones, Canaan; Alan Fred Kirkpatrick, Old Orchard Beach; Reginald Peppard MacDonald, Lynn, Mass.; William Birney Page, Sebago Lake; Alexander Hinds Raye, Eastport; John Franklin Raye, Eastport; Earle Duncan Reed, Augusta; Ralph Durell Sanborn, Palmer Mass.; Frederick Hastings Stetson, Bangor; John Franklin Whitney, Presque Isle; Algird George Yozukevich, Auburn.

1940

Wallace Ames Beardsell, Weston, Mass.; Robert Harlan Bonney, Portland; Leon Joseph Breton, Rumford; William Heywood Chandler, Portland; William Sherwood Cook, Tenants Harbor; Stephen Keith Gross, Camden; Philip Allan Hutchinson, West Buxton; Wiljo Maurice Lindell, Warren; Richard Gwynne Morton, Farmington; Edwin Stanton Rich, Charleston; Eugene Osborn Russell, Yarmouth; Edward Waldron Stanley, Farmington; Guy Susi, Pittsfield.

Members of Xi Sigma Pi

1939

Gordon Lewis Chapman, Portland; William Henry Craig, Bingham; Ralph Lewis Demont, Old Town; Philip Farnsworth Grant, Cherryfield;

Roy Leighton Miller, Quincy, Mass.; Richard Anderson Monroe, Melrose, Mass.; Raymond Lloyd Nelson, Concord, Mass.; Richard Quigley, Providence, R. I.; James Merrill Stoddard, Eastport; Karl Frederick Wenger, Springfield, Mass.

1940

John Chase Alley, Portland; Earle Dutton Bessey, Jr., Brooks; Eldon Ralph Clark, Dennysville; Carleton Paul Duby, Bradley; Maynard Whitney Files, Portland; William Henry Hatch, Dark Harbor; Richard Holmes, Northeast Harbor; Fred Edward Holt, Oxford; Chester Morris Ladd, Waterville; John Thornton Maines, Hartford, Conn.; John Harold Pratt, Oxford; Roger Boardman Trask, Bangor.

Members of Phi Beta Kappa

1939

Anna Mirdza Anderson, Derby; Lucille Mae Epstein, Bangor; Edward Keith Hayes, Orono; Priscilla Haskell Libby, Bangor; Madge Elizabeth Stacy, Shirley; Edith Harriet Stevens, Pleasant Point; Marjorie Taylor, Bangor; David White Trafford, Waterville; Artemus Edwin Weatherbee, Bangor; Barbara Fern Whittredge, Ansonia, Conn.

1940

Helma Katrina Ebbeson, Bangor; Elnora Louise Savage, Bangor.

Members of Omicron Nu

1939

Gwendolyn Marie Baker, Brewer; Vera Estelle Brastow, Brewer; Philena Emily Dean, Winslow; Marie Theresa Folsom, Orono; Jean Isabelle Grange, Smyrna Mills; Edna Louise Harrison, Newburgh, N. Y.; Charlotte Rose Hennessey, Portland; Lois Priscilla Leavitt, Orono.

1940

Eleanor Maxine Robertson, Portland; Margaret Olive Steinmetz, Orono; Marion Rhoda Tufts, South Berwick.

Members of Kappa Delta Pi

1939

George Elmer Burns, Mexico; Eleanor Allbee Cousins, East Blue Hill; Ruth Evelyn Gregory, Rockland; Frank Holmes Kent, Wytopitlock; Helen Clarissa McCully, Farmington; Alice Rowena Richardson, Fairfield; Barbara Eunice Seavey, Bangor; Venora Mary Stinchfield, Clinton; Mildred Sutter, Presque Isle; Katherine King True, Hope; Hilda Elzira Weymouth, Morrill.

1940

Ervin Alexander Arbo, Brownville; Thelma Nesta Brown, Waterville; Hope Adelaide Jackman, Orono; Dana Forrest Kennedy, Bangor; Everett Herrick Nason, Brunswick; Evelyn Ruth Woods, Gorham.

Scholarships and Prizes

The Merritt Caldwell Fernald Scholarship—Eugene Osborn Russell, Yarmouth.

The James Stacy Stevens Scholarship—Helma Katrina Ebbeson, Bangor.

The Harold Sherburne Boardman Scholarship—Robert Harlan Bonney, Portland.

The Leon Stephen Merrill Scholarship—Chester Morris Ladd, Waterville.

The Charles Davidson Scholarship—Ervin Alexander Arbo, Brownville.

The University Scholarships—Leon Joseph Breton, Rumford; Lester Duran Chipman, Mechanic Falls; Lloyd Bryon Crossland, Mexico; Ruth Jeannette Garrison, Madison; Lloyd Wilfred Griffin, Bradford, Mass.; Rudolph Eric Haffner, Portland; Joseph Leonard Harrington, Patten; Martha Elizabeth Hutchins, Kingfield; Clarence Wayland Jones, Rumford; Wiljo Maurice Lindell, Warren; Alvalene May Pierson, Tenants Harbor; Ernestine King Pinkham, Portland; Edwin Stanton Rich, Charleston; Marion Rhoda Tufts, South Berwick; Hugh Edwin Young, Aurora.

Trustee Graduate Scholarships—Robert Vinton Akeley, Presque Isle; Lucille Epstein, Bangor; John Philip Harriman, Cherryfield; Mildred Holmes, Eastport; Priscilla Haskell Libby, Orono, (fall semester); Beverly Ross Nason, Old Town; Philip Charles Perkins, Castine; Virginia Margaret Tuttle, East Corinth (spring semester); Karl Frederick Wenger, East Longmeadow, Mass.

Maritime Provinces Scholarship—Henrietta Elizabeth Forde, Cookshire, Quebec, Canada.

Trustee Graduate Fellowships—Alan Fred Kirkpatrick, Old Orchard Beach; Gwilym Richard Roberts, Brownville; Merle Wesley Wing, Old Town.

Secondary School Contest Scholarships, awarded June, 1939:

Four-Year Scholarship—Sara Margaret Heaton, Portland High School, Portland.

Three-Year Scholarship—Paul Smith, Bangor High School, Bangor.

Two-Year Scholarship—Thomas William Easton, Bridgton High School, Bridgton.

One-Year Scholarships—James Richard Ambrose, John Bapst High School, Bangor; Phyllis Maude Bryant, Madison High School, Madison (one-half year); Evelyn Arlene Gerrish, Edward Little High School, Auburn; Frank Charles Holden, Stearns High School, Millinocket; Robert Dunlap Jenkins, Orono High School, Orono; Harriet Howard Ordway, North Yarmouth Academy, Yarmouth (one-half year).

The Hovey Memorial Scholarships—Harlow Dailey Adkins, Norway; Ruel Jotham Blackwell, Madison; Philip Allan Hutchinson, West Buxton; Wiljo Maurice Lindell, Warren; James Oliver Williams, Ogunquit.

The Charles H. Hood Fund Scholarships—Roy Laurel Anderson, Newport; Edward Jay Cook, Jr., Rutland, Vt.; Frederick Marshall Crouse, Crouseville; Herbert Findlen, Fort Fairfield; Orman Pearl Hunt, Clinton; Donald Murray Kilpatrick, Presque Isle; Norman Eveleth Whitney, West Newton, Mass.

The W. H. Bowker Scholarships—Dean Wendell Ebbett, Presque Isle; Earl Berfield Langley, Easton.

The Maine Normal School Scholarships—Albert Edwin Hill, Warren; Wayne Victor Hoy, Sherman Mills; Phyllis Lillian Smart, LaGrange.

The General Alumni Association Scholarship—Mary Ellen Buck, Monticello.

The William Emery Parker Scholarship—Donald Calvin Smith, Easton.

The Charles H. Payson Scholarships—Wesley Daniel Anderson, Mars Hill; William Roberts Booth, Cumberland Center; Robert Eugene Chute, Norway; Albion William Fenderson, Sanford; Norma Frances Gray, Cape Elizabeth; Virgil Stewart Pratt, Stillwater; Shirley Gwynne Webster, Lincoln; Marjorie Marion Whitehouse, Augusta.

The Bertha Joy Thompson Scholarships—William Henry Hatch, Dark Harbor; Hazel Thelma King, Saco; Elinor Frances Langdon, Kittery; Anna Margaretha Simpson, South Gray; Norma Leone Sylvester, Deer Isle; Linnea Beatrice Westin, Bangor.

The Philip R. Hathorne Scholarships—Wilson Merriman Alford, Windsor, Conn.; John Norman Harris, Anson; George Vincent Murphy, Bar Harbor.

The James Norris Hart Scolarships—Donald Vardy Taverner, Augusta; Stuart Frank Svedeman, East Milton, Mass.

The Hosea B. Buck Memorial Scholarship—Charles Albert Peirce, Jr., Bangor.

The Charles F. Woodman Scholarships—Myer Alpert, Bangor; Frederick Arthur Mitchell, Kingfield; Clifton Eugene Whitney, Winn.

The Women's Student Government Scholarships—Alma Mabel Hansen, South Portland; Edith Irene Whitman, Stonington.

The New York Alumni Association Scholarship No. 1—Brooks Brown, Jr., Augusta.

The New York Alumni Association Scholarship No. 2—Robert Harlan Bonney, Portland.

The Kidder Scholarship—Eugene Osborn Russell, Yarmouth.

The Chicago Alumni Association Scholarship—Edgar Thurlow Pitts, Stonington.

The Western Pennsylvania Alumni Association Scholarship—Edward Waldron Stanley, Farmington.

The Joseph Rider Farrington Scholarship—Donald Brooks Holyoke, Brewer.

The Stanley Plummer Scholarship—Gerard Alphonse Goulette, Dexter.

The Elizabeth Abbott Balentine Scholarship—Calista Louise Buzzell, Milford.

The Class of 1905 Scholarship—Charles Thomas Keniston, Bridgton.

The Carrol C. Jones Scholarship—John Hathaway Reed, Fort Fairfield.

The Ohio Alumni Association Scholarship—Virginia Lucille Barstow, Brewer.

The Boston Alumni Association Scholarships—Clarence Kitchener Genge, Arlington, Mass.; George Carl Risman, Roxbury, Mass.

The Lincoln County Alumni Association Scholarship—Boynton Locke, Jr., Boothbay Harbor.

The Northern Aroostook Alumni Association Scholarship—Charles Lancaster Weaver, Presque Isle.

The Philadelphia Alumni Association Scholarship—Neal Harvey Walker, Wiscasset.

The Southern New Hampshire Alumni Association Scholarship—James Alden Reed, Boothbay.

The Worcester County, Massachusetts, Alumni Association Scholarship—Alfred Roy Bridgford, Jr., Leicester, Mass.

The York County Alumni Association Scholarships—Ruth Ellen Benson, Kennebunkport; Gerald Ellsworth Spofford, Kennebunk.

The Connecticut Alumni Association Scholarship—John Michael Dillon, Naugatuck, Conn.

The Knox County Alumni Association Scholarship—Frederick Mauran Perry, Rockland.

The Piscataquis County Alumni Association Scholarship—Winston Eugene Pullen, Monson.

The Portland Alumnae Association Scholarship—Josephine Anne Freeman, Portland.

The Hancock County Alumni Association Scholarship—Edgar Thurlow Pitts, Stonington.

The John M. Oak Scholarship Awards—George Hathaway Ellis, Orono; Allston Prentice Keyes, Washington, D. C.; John William Perry, Old Town.

The Class of 1911 Scholarship—Anna Elizabeth Verrill, Westbrook.

The Agricultural Club Scholarship—Orman Pearl Hunt, Clinton.

The Maine Farm Bureau Fund Scholarships—Leroy Clark Brown, Farmington; Eva Adeline Clark, Orono.

The Class of 1909 Fund Scholarship—Edith Jacobs, West Baldwin.

Phi Beta Kappa Scholarship—Donald Brown Devoe, Bangor.

Sophomore Owls Scholarship—Herbert Harrison Johnson, Onawa.

Senior Skulls Society Scholarships—Norris Stanwood Adams, Portland; Franklin Wilson Rich, Charleston; Francis Eugene Turner, Bangor.

The Chi Omega Sociology Prize—Corinne Louella Comstock, Millinocket.

The Prize of the Class of 1873—James Oliver Hamilton, Waterboro.

The Alpha Omicron Pi Alumnae Prize—Mary Alexia Cowin, Orono.

The Sigma Mu Sigma Award—Margaret Robinson Romero, Bangor.

The Pale Blue Key Award—Benjamin Franklin Graham, Milton, Mass.

The Henry L. Griffin Prize in English Composition—Charles Smith Benjamin, Jr., Ridgewood, N. J.

The Franklin Danforth Prize—Walton Earle Grundy, Auburn.

The Greek Culture Prize—Joan Elinor Fales, Waterville.

The Spanish Club Prize—Risha Gertrude Katz, Brookline, Mass.

The Mary Ellen Chase Prize—Frederick Clark Thurston, Bangor.

The Alpha Zeta Senior Award—Herbert Arthur Leonard, Thorndike.

The Senior English Essay Prize—Clark Glamis Kuney, Boston, Mass.

The Class of 1908 Commencement Cup—Class of 1889.

The Twentieth Century Cup—Class of 1909.

The Fraternity Scholarship Cup—Phi Eta Kappa.

The Freshman Scholarship Cup—Edward Little High School, Auburn.

The Charles Rice Cup—Kappa Sigma.

The Washington Alumni Association Watch—Dana Edgecomb Drew, Patten.

The Portland Alumnae Association Watch—Ruth Alta Pagan, Deer Isle.

Commencement 1939

Thursday, June 8

8:00 P.M. Commencement Ball—Alumni Memorial

Friday, June 9

11:00 A.M. Senior Class Meeting—Little Theatre
2:00 P.M. Alumni Council Annual Meeting
1:45 Class Day Exercises—Alumni Memorial
3:30 Pageant—given by All-Maine Women—Alumni Memorial
4:30-6:00 President and Mrs. Hauck—"At Home"

Saturday, June 10

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, 1889—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—Balentine 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 11

10:30 A.M. Baccalaureate Service—Alumni Memorial
6:45 P.M. Senior-Alumni Sing—The Oval

Monday, June 12

9:30 A.M. Commencement Exercises—Alumni Memorial

Degrees Conferred, 1939

COLLEGE OF AGRICULTURE

Bachelor of Science

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

Paul Everett Browne ..... Bethel
Kenneth Edward Clark ..... Fort Fairfield
Philip Charles Craig ..... Patten
Timothy Francis Curtin ..... Boothbay Harbor
Dana Edgecomb Drew, *With High Distinction* ..... Patten
Maison Keith Goodrich ..... Patten
Thomas William Hall ..... Wiscasset
Bernard Guy Hannigan ..... Houlton
Richard Homer Howard ..... Sangerville
William Edward McCarthy ..... Rumford
Sewall Otis Milliken ..... Portland
Donald Herbert Perrin ..... Sherman Mills

IN AGRONOMY

Embert Clason Buck ..... Harrison
Edward Peter Cyr ..... Lille
Robert Calvin Farris, Jr. ..... Union
Robert Edward Hemingway ..... Caribou
William Joseph Sirois ..... Fort Fairfield
Wendell Walker Smith ..... Presque Isle
Leander Mayford Sprowl ..... Searsmont

IN ANIMAL HUSBANDRY

Thomas Levi Barker, *With Distinction* ..... Vassalboro

IN BACTERIOLOGY

Walton Earle Grundy, *With Highest Distinction* ..... Auburn
Roger Maxim Stinchfield, *With High Distinction* ..... Wayne

IN BOTANY

Kendrick Yale Hodgdon ..... Anson

IN DAIRY HUSBANDRY

Roger Conant Clement ..... Monroe
John Sherwood Edwards, *With High Distinction* ..... Bridgeport, Conn.
Franklin Wilson Rich ..... Charleston
Clement Harold Smith ..... Monmouth
Frank Johnson Washburn ..... Dover-Foxcroft

IN DAIRY TECHNOLOGY

Herbert Arthur Leonard ..... Thorndike
Sheldon Leroy Ward ..... Thorndike
Edwin Conrad Woodland ..... Watertown, Mass.

IN ENTOMOLOGY

Merle Wesley Wing, *With Distinction* ..... Old Town

IN FORESTRY

James Best Cahill ..... Haworth, N. J.
Gordon Lewis Chapman ..... Portland
Albert Lewis Clark ..... Camden
Robert Boone Cook ..... Presque Isle
William Henry Craig, *With High Distinction* ..... Bingham
Ralph Lewis Demont ..... Old Town
George Edward Doe ..... Kezar Falls
Harlan Pratt Fitch ..... Groton, Mass.
Francis Brett Fortier ..... Dexter
Philip Farnsworth Grant, *With Distinction* ..... Cherryfield
Elmer Colburn Hart ..... South Hope
Arthur John Lippke, Jr. ..... Jamaica, N. Y.
Roy Leighton Miller ..... Quincy, Mass.
Richard Anderson Monroe, *With Distinction* ..... Melrose, Mass.
Raymond Lloyd Nelson ..... Concord, Mass.
Willis Ralph Phair ..... Limestone
Richard Quigley ..... Providence, R. I.
Francis Wager Smith ..... Hamden, Conn.
James Merrill Stoddard ..... Eastport
Donald Francis Strout ..... Livermore Falls
Richard Earl Thomas ..... Rockland
Karl Frederick Wenger, *With Distinction* ..... Springfield, Mass
Albert Harry Whiteley ..... Limerick
Donald Francis Witherspoon ..... North Haven

IN HOME ECONOMICS

Gwendolyn Marie Baker, *With High Distinction* ..... Brewer
Ruth Estelle Barton ..... West Gray
Eleanor Lucille Bell ..... Albany, N. Y.
Vera Estelle Brastow, *With Distinction* ..... Brewer
Virginia Burke ..... Whitman, Mass.
Mary Edith Buzzell ..... Fryeburg
Ethel Maxine Cates ..... Thorndike
Laura Grace Chute, *With Distinction* ..... Brewer
Barbara Corbett ..... Orono
Catherine Ella Cox ..... Sea Cliff, N. Y.
Hazel Bernice Curran ..... Milo
Elizabeth Curtis ..... Searsport
Dorothy Davis ..... Longmeadow, Mass.
Philena Emily Dean, *With Distinction* ..... Winslow
Charlotte Louise Dimitre ..... Calais
Marion Phoebe Dunbar ..... Belfast
Bula Louise Fitch ..... New Sharon
Marie Theresa Folsom, *With Distinction* ..... Orono
Mary Eldridge Frost ..... York Village
Barbara Grace ..... Lynnfield Center, Mass.
Jean Isabelle Grange, *With Distinction* ..... Smyrna Mills
Edna Louise Harrison, *With High Distinction* ..... Newburgh, N. Y.
Charlotte Rose Hennessy, *With Distinction* ..... Portland
Mary Elizabeth Henry ..... Thomaston
Elizabeth West Homans ..... Bangor
Margaret Louise Huff ..... Biddeford
Marion Frances Kiszonak ..... Lisbon Falls
Stacia Victoria Kufel ..... Shirley, Mass.
Lois Priscilla Leavitt, *With High Distinction* ..... Orono
Julia Ruth Moynihan ..... Madison
Ethelyn Arlene Parkman ..... Lynn, Mass.
Elizabeth Hunt Reid ..... Augusta
Marian Emerson Roberts ..... Kennebunk
Antoria Shirley Rosen ..... New Sweden
Jean Cummings Sanborn ..... Bangor
Beulah Lilah Shaw ..... Freeport
Deborah Florence Stevens ..... Turner
Janet Whiting St. Pierre ..... Bangor

IN HORTICULTURE

Arthur Jesse Chick, Jr. ..... Monmouth
Afton Holmes Farrin, Jr. ..... South Bristol

IN POULTRY HUSBANDRY

Bertram Wendell Ames ..... Bangor
Leonard Maurice Brann ..... North Whitefield

IN WILDLIFE CONSERVATION

Richard Foster Crocker, Jr. ..... Fort Kent
Merwin Abbott Marston ..... East Waterford
Weston Pike Norton ..... Strong

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

IN CHEMISTRY

Ann Quincy Bartlett ..... Sorrento
Harold Edison ..... Brooklyn, N. Y.

IN DRAMA

Clark Glamis Kuney ..... Boston, Mass.

IN ECONOMICS

Mary Leslie Bearce ..... Bucksport
William Foster Clifford ..... Westmount, Que., Canada
Carleton Clark Cressy ..... Millinocket
Dearnley Croteau ..... Lisbon Falls
Elizabeth Rachel Dixon ..... Old Town
Harland Laurell Dodge ..... Hudson Falls, N. Y.
Harold Udell Estabrook ..... Calais
Albert Friedman ..... Bangor
Milton Sylvester Jellison ..... Bangor
Leon Walter Konecki ..... South Portland
Alden Lancaster ..... Presque Isle
Leonard Carleton Merrill ..... Brewer

Clayton Davis Mersereau ..... Sebago Lake
Donald James Moore ..... Bangor
Raymond Francis Norton ..... Bangor
John William Perry ..... Old Town
Thomas Sears Pinkham, Jr. ..... Fort Kent
Robert Davis Rich ..... Portland
Irving Gilbert Saex ..... Holyoke, Mass.
Gerald Turner Small ..... Bangor
Ernest Lincoln Speirs ..... Westbrook
Dora Louise Stacy ..... Shirley
Madge Elizabeth Stacy, *With Distinction* ..... Shirley
Owen Wentworth ..... Kennebunkport

IN ENGLISH

Anna Mirdza Anderson, *With Honors* ..... Derby
Marion Patricia Borden ..... South Portland
Eva Isobel Chase ..... Limestone
Sybil Kent Green ..... Orono
Charlotte Edith King ..... Bath
Priscilla Haskell Libby, *With Highest Honors* ..... Bangor
Ferne Marguerite Lunt ..... Houlton
Mary Virginia Maguire ..... Portland
Anita Elinor Miller ..... Monmouth Beach, N. J.
Eunice Josephine Nelson ..... Old Town
Mary Josephine Orr ..... Old Town
Margaret Rowen Orser ..... Fort Fairfield
Charles Speros Patrinelis ..... Portland
Frederick Gillis Patterson ..... Castine
Brian Pendleton ..... Lewiston
Alice Pierce ..... Lunenburg, Mass.
Margaret Louise Rice, *With Honors* ..... Orono
Edith Harriet Stevens, *With High Honors* ..... Pleasant Point
Albert Plummer Toner ..... Lewiston
Elaine Elizabeth VanNostrand, *With Honors* ..... Somerville, N. J.
Audrey Juanita White ..... South Portland

IN GERMAN

Dennis Joseph Curran ..... Bangor
Lawrence Sylvester Staples ..... Stonington

IN GOVERNMENT

Erwin Elling Cooper ..... Mattapan, Mass.

IN HISTORY

Lucille Mae Epstein, *With High Honors* ..... Bangor
Mildred Hamlin Haynes ..... South Waterford
Dorothy Mildred Hines ..... Middletown, Conn.
David White Trafford, *With Highest Honors* ..... Waterville

IN HISTORY AND GOVERNMENT

Merrill Ray Bradford ..... Bangor
Ruth Alta Pagan ..... Deer Isle
Louis Reid Russell ..... Fort Fairfield
Philip Roswell Temple ..... Hopedale, Mass.
Artemus Edwin Weatherbee, *With Honors* ..... Bangor

IN MATHEMATICS

Eunice Marianne Gale ..... Portland
Jeanette Lamoreau ..... Presque Isle
Berenice Maude Leighton ..... Harrington
Alfred Parker Mallett ..... South Portland
Marjorie Taylor, *With Distinction* ..... Bangor

IN PSYCHOLOGY

Helen Marden Bond ..... Bangor
Elisabeth Jean Doble ..... Beverly, Mass.
Allen Lyford Dyer ..... Camden
Joan Elinor Fales ..... Waterville
Robert Tyler Harris ..... Salem, Mass.
Margaret Leonora Hoxie ..... Belfast
Marguerite Edith Kyer ..... Brewer
Edward Rankin Ladd ..... Rockland
Lillian Mae Mitchell ..... Orono
Corwin Horace Olds ..... Rockland
Dorothy Silver ..... Bangor
Harriette Dalrymple Stewart ..... Waterville
Francis Eugene Turner ..... Bangor
Dorothea Agnes Vail ..... Cornwall-on-Hudson, N. Y.
Mildred Hayes Walton ..... Lisbon

IN ROMANCE LANGUAGES

Alma May Armstrong, *With High Honors* ..... Portland
Eleanor Mabel Crockett ..... Hopedale, Mass.
Charlotte Hope Currie ..... Hartland
Lucille Carroll Fogg ..... Bangor
Theresa Evelyn Johnson ..... South Portland
Marjorie Gloria Moulton ..... Randolph
Jeannette Winter Sanborn ..... Bangor

IN SOCIOLOGY

Evangeline Deborah Anderson ..... Monson
Pauline Wealtha Davee ..... Orono
Paul Herbert William Olander ..... Ellsworth
Barbara Fern Whittredge, *With Distinction* ..... Ansonia, Conn.

IN ZOOLOGY

Cora Alice Bailey ..... Waterville
Edwin Byer ..... Bangor
Robert Small Cail ..... Portland
Josephine O'Brien Campbell ..... Machias
Edward Keith Hayes, *With Distinction* ..... Orono
Stanley Wordsworth Staples ..... Gardiner
George Leonard Temple ..... Lewiston
Harland Glidden Turner ..... Augusta

SCHOOL OF EDUCATION

Bachelor of Arts in Education

Mary Eliza Cooper ..... Albion

Bachelor of Science in Education

Louis Joseph Bourgoin ..... Frenchville
Mary Priscilla Brooks ..... Eastport
George Elmer Burns ..... Mexico
Margaret Eileen Cassidy ..... Bangor
Paul S. Chapman ..... Bethel
Vernita Gertrude Colson ..... Stockton Springs

Eleanor Allbee Cousins ..... East Blue Hill
Clifford Lewellyn Daigle ..... Fort Kent
Marie Anne Daigle ..... Fort Kent
Margaret Elizabeth Dalzell ..... Unity
William Clifton Darroch ..... Princeton
Hugh Allan Gillis ..... Lincoln
Ruth Evelyn Gregory, *With High Distinction* ..... Rockland
William Frank Griffin ..... Levant
James Earle Jones ..... Hartford, Conn.
Frank Holmes Kent ..... Wytopitlock
Charles Ralph Leavitt ..... West Enfield
Melvin Theodore Leighton ..... Bangor
Laurice Ervin Lewis ..... Vassalboro
Helen Clarissa McCully ..... Farmington
Granville Butman MacMillan ..... Stillwater
Arthur Wilber Nelke, Jr. ..... Brewer
John Albert Norton, Jr. ..... Portland
Clarence Owen Parlin ..... Starks
Ida-May Perry ..... Jefferson
Alice Rowena Richardson ..... Fairfield
Gwilym Richard Roberts ..... Brownville
Muriel Evelyn Ross ..... Sherbrooke, Que., Canada
Barbara Eunice Seavey ..... Bangor
Merton Leverne Smith ..... Bucksport
Leon Chadbourne Sprague, Jr. ..... Presque Isle
Venora Mary Stinchfield, *With Highest Distinction* ..... Clinton
Madeline Sutter ..... Presque Isle
Mildred Sutter ..... Presque Isle
Patrick John Testa ..... North New Portland
Charles Hannaford Towle ..... Portland
Katherine King True ..... Hope
Hilda Elzira Weymouth ..... Morrill
Frances Charlotte Wolverton ..... Bangor

Bachelor of Science in Commercial Education

Doris Madeline Currier ..... Oxbow
Hildred Weymouth Fuller ..... Brunswick
Norman Charles Hall ..... Dalton, Mass.

COLLEGE OF TECHNOLOGY

Bachelor of Science

IN CHEMISTRY

Charles Louis Blanchard ..... Bangor
Robert Clyde Feero ..... Bath
Alan Fred Kirkpatrick, *With High Distinction* ..... Old Orchard Beach
Beverly Ross Nason ..... Old Town
Newton Jennings Rodgers ..... Portland
Stanley Thayer Titcomb ..... New Gloucester
John Franklin Whitney, *With High Distinction* ..... Presque Isle

IN CHEMICAL ENGINEERING

Philip Aiken Corrigan ..... Calais
Kermit Rodney Cotes ..... Derby
Orris Lee Dean, Jr. ..... Derby
Robert Thomas Graffam ..... Portland

IN CHEMICAL ENGINEERING—PULP AND PAPER OPTION

Robert Wendell Doe, *With Highest Distinction* ..... Bingham
Albert Orne Dyson ..... Stoneham, Mass.
Charles Rounds Huntoon, Jr. ..... Rumford
Gerald Eugene Murphy ..... Portland

IN CIVIL ENGINEERING

Ruel Jotham Blackwell ..... Madison
Elroy Kenneth Day ..... North Berwick
Carleton Doak, Jr. ..... Belfast
William Albert Glover, Jr. ..... Rockland
Philip Lawrence Gregory ..... North Weymouth, Mass.
William Rogers Hilton, *With Distinction* ..... Bangor
Charles Marsh Holbrook ..... Watertown, Mass.
Chester Warren Jones ..... Canaan
William Thomas McDonough ..... Portland
William Birney Page, *With High Distinction* ..... Sebago Lake
Leonard Melvin Pratt ..... Greenville Junction
George Roberts Sawyer ..... Old Town
Earle Wilbur Tibbetts ..... Hallowell
William Howard Ward ..... North Uxbridge, Mass.

IN ELECTRICAL ENGINEERING

Richard Porter Boyer, Jr. ..... Newton, Mass.
Carleton Hermon Clark ..... Springfield, Mass.
Louis Charles Costrell, *With Highest Distinction* ..... Bangor
Theodore Hudson Grant ..... Houlton
John Philip Harriman ..... Cherryfield
Robert Kirkland, Jr. ..... Quincy, Mass.
Mark Sheldon Smith ..... Bangor
Frederic Hastings Stetson, *With Distinction* ..... Bangor
Thomas Arthur Williams ..... Springfield, Mass.

IN MECHANICAL ENGINEERING

Wilfred Estey Bettoney, *With Distinction* ..... Wollaston, Mass.
Robert Billings Bramhall ..... Quincy, Mass.
Austin Hunter Chamberlain ..... Mt. Vernon, N. Y.
Frank Henry Collins ..... Bar Harbor
Kenneth Lester Crabtree ..... Union
Samuel Crowell, 3rd ..... Marblehead, Mass.
James W. Cunningham ..... Old Town
Carl Fremont Davis, Jr. ..... Rumford
James Frederick Dow ..... Houlton
Hamilton Higgins Dyer, Jr. ..... Kennebunk
Russell Wells Gamage ..... Christmas Cove
Stephen William Groves ..... East Millinocket
Frederick Barker Harnden ..... Rangeley
Donald Benjamin Haskell ..... Portland
Charles St. John Hill ..... Orono
Sheldon Kenneth Howard ..... North Monmouth
Reginald Peppard MacDonald ..... Lynn, Mass.
Melvin Almon McKenzie ..... Lewiston
Elwood Dimock Millett ..... Norway
Lauress Tibbetts Parkman ..... Lynn, Mass.
Alexander Hinds Raye, *With Highest Distinction* ..... Eastport
John Franklin Raye, *With Highest Distinction* ..... Eastport
Earle Duncan Reed ..... Augusta
Ralph Durell Sanborn ..... Palmer, Mass.
Robert Leonard Sheraton ..... West Newton, Mass.
Carl Russell Toothaker ..... Gardiner
Thomas Davis Verrill ..... Cumberland Mills
Algird George Yozukevich, *With Distinction* ..... Auburn

ADVANCED DEGREES

Master of Arts

IN ECONOMICS

Bernard L. Berzon (B.A., Yeshiva College, 1935) ..... Bangor
The Non-Economic Elements Involved in Strikes

IN EDUCATION

Loring Ralph Additon (B.S., Bates, 1926) ..... Ellsworth
A Follow-Up Study of Graduates of Ellsworth High School

Eva Lucille Alley (A.B., Colby, 1925) ..... Calais
Character and Personality Guidance for Secondary-School Girls

John Carroll Caldwell (B.A., Maine, 1928) ..... Island Falls
Curriculum Proposal for a Civilian Conservation Corps Camp in Rural Maine

Stanley Luther Clement (B.S., Colby, 1932) ..... Newport
The Status of Student Participation in Government in Maine Secondary Schools with Special Reference to Student Councils

Lionel Louis Desjardins (B.A., Maine, 1934) ..... Old Town
A Study of Rural Teachers in Penobscot County, Maine

Stephen Augustus Griffin (B.A., Maine, 1922) ..... Livermore Falls
A History of Education in the Town of Livermore, Maine

Eugene Albert Hofsted (LL.B., St. Lawrence, 1911; B.A., Maine, 1928) ..... Poughkeepsie, N. Y.
A Study of Trends in the Costs of Education in Poughkeepsie, N. Y.

Abigail Louise Sargent (B.A., Maine, 1932) ..... Sargentville
An Analysis of Latin Textbooks in the Secondary Schools of Maine

Lucille Estelle Smith (B.A., Maine, 1921) ..... Brewer
Leisure Reading Preferences, A Study of Windsor Locks High School Students

Fred August Tarbox (B.S., Colby, 1923) ..... Calais
A Study of Administrative Practices in Selected Secondary Schools of Maine

Ruth Arline Wray (B.A., Maine, 1920) ..... Brewer
The History of Secondary Education in Cumberland and Sagadahoc Counties in Maine

IN ENGLISH

FRANCES HARRIET BABB (B.A., Maine, 1930) ..... Thomaston
Abby Maria Hemenway (1820-1890), Historian, Anthologist, and Poet

MARGARET AUGUSTA HASKELL (B.S., Hamline, 1935) ..... Stonington
English Poetic Drama from Browning to Stephen Phillips

IN HISTORY

EDWIN SOLOMON COSTRELL (B.A., Maine, 1938) ..... Bangor
How Maine Viewed the World War, 1914-1917

IN HISTORY AND GOVERNMENT

LILLIAN FRANCES LOVEITT (B.A., Maine, 1930) ..... South Portland
The Social History of Portland, Maine, from 1820 to 1840

IN MATHEMATICS

MILDRED BERTHA MILBOURN (B.A., Keuka College, 1928) .... Walton, N. Y.
Determinants, History, and Developments in Transitional Mathematics

Master of Science

IN AGRONOMY

LESTER HURLIN SMITH (B.S., Maine, 1937) ..... Buxton
A Botanical Analysis of Differently Fertilized Permanent Pasture Paddocks at Highmoor Farm

IN ANIMAL INDUSTRY

KENNETH WILCOX DIKE (B.S., Vermont, 1936) ..... Bristol, Vt.
A Study of the Semen of the Bull as Applied to Artificial Insemination

IN BACTERIOLOGY

JOHN SIMMONS GETCHELL (B.A., Maine, 1936) ..... Oakland
The Study of Microorganisms Associated with the Spoilage of Canned Sardines

IN CHEMICAL ENGINEERING

KHUAT-TAT LIN (B.S., Chaotung University, 1936) ..... Singapore, Asia
Technology, Economic Balance and Design in Rayon Manufacture and Some Other Industries (Starch, Nitrocellulose and Plastics)

HIRAM LEROY SMITH, JR. (B.S., Maine, 1938) ..... Orono
An Investigation of the Influence of Composition on Individual Plate Efficiencies in a Rectifying Column

IN ECONOMICS AND BUSINESS ADMINISTRATION

HOWARD MAYO GOODWIN (B.S., Maine, 1938) ..... Brewer
Public Relations in the Public Utilities

JOSEPH HENRY LEWIS (B.S., Maine, 1938) ..... Springfield
The Business Corporation as a Factor in the Evolution of Ownership

IN EDUCATION

MARION DUXBURY MAXWELL (B.S., Syracuse, 1917) .... Willimantic, Conn.
The Vocational Consequences of Failure to Graduate from the Secondary School

ERVIN SYLVESTER FARRINGTON (B.S., New Hampshire, 1932)
..... Windsor, Conn.
The History of Education in Windsor, Connecticut

HAZEL FRANCES FURLONG (B.S., Farmington Normal, 1930)
..... Gorham, N. H.
An Investigation of the Home Activities of High-School Girls in Lewiston, Maine

IN ELECTRICAL ENGINEERING

CARL ARTHUR LINDEN (B.S., Tufts, 1936) ..... Everett, Mass.
Effect of Temperature on the Dielectric Strength of Varnished Cambric

IN PHYSICS

LEROY LEWIS BLACKMER, JR. (B.S., Massachusetts State, 1937)
..... North Brookfield, Mass.
An Electron Microscope of Simple Design

IN PLANT PATHOLOGY

Avery Edmund Rich (B.S., Maine, 1937) ..... Charleston
Stem-End Browning of Potato Tubers

IN WILDLIFE CONSERVATION

Jay Schooling Gashwiler (B.S., Oregon State, 1937) ..... Novinger, Mo.
A Waterfowl Survey of the Lincoln, Maine, Area
Robert Holm Johnson (B.S., Idaho, 1937) ..... Moscow, Idaho
Life History and Management Studies of Raccoons in Maine

Master of Science in Education

Manning Neri Arata (B.S. in Ed., Boston University, 1930) ... Old Town
A Study of the Organization and Administration of the Small High Schools in Maine
Edwin Allerton Cox (B.S. in Ed., Boston University, 1932) ..... Middleboro, Mass.
Prediction of Success in Ninth Grade Algebra by Use of Certain Eighth Grade Measures
Chesley Haywood Husson (B.S. in Ed., State Teachers College, Salem, 1926) ..... Bangor
A Survey of Commercial Education in Public Secondary Schools in Maine
Arthur Watt (B.S., Northeastern, 1938) ..... Greenfield, Mass.
Effect of Preliminary Study in Biology and Physics on Subsequent Achievement of Pupils in Chemistry in the Greenfield High School

CERTIFICATE

IN THE TWO-YEAR COURSE IN AGRICULTURE

Robert Edward Bishop ..... Caribou
Joseph Sebastian Boulos ..... Portland
Clement Stevens Dunning ..... North Harpswell
Ralph Horatio Elwell ..... Brooks
Harold Edward Farrington, Jr. ..... Portland
Gerald Winston Kimball ..... Bangor
Edward Conant Scott ..... Presque Isle
Frederick Hudson Sylvester ..... Ashland

GENERAL HONORS

Anna Mirdza Anderson	*Honors*
Alma May Armstrong	*High Honors*
Lucille Mae Epstein	*High Honors*
Priscilla Haskell Libby	*Highest Honors*
Margaret Louise Rice	*Honors*
Edith Harriet Stevens	*High Honors*
David White Trafford	*Highest Honors*
Elaine Elizabeth VanNostrand	*Honors*
Artemus Edwin Weatherbee	*Honors*

DEPARTMENTAL HONORS

College of Technology

IN CHEMISTRY

Alan Fred Kirkpatrick
John Franklin Whitney

IN CHEMICAL ENGINEERING—PULP AND PAPER OPTION

Robert Wendell Doe

IN CIVIL ENGINEERING

William Rogers Hilton
William Birney Page

IN ELECTRICAL ENGINEERING

Louis Charles Costrell

IN MECHANICAL ENGINEERING

Wilfred Estey Bettoney
Robert Billings Bramhall
Russell Wells Gamage
Charles St. John Hill
Alexander Hinds Raye
John Franklin Raye
Earle Duncan Reed
Ralph Durell Sanborn
Thomas Davis Verrill
Algird George Yozukevich

The following received commissions as Second Lieutenant Officers' Reserve Corps

INFANTRY

Bertram Wendell Ames
Robert Billings Bramhall
Frank Henry Collins
William Henry Craig
Samuel Crowell, 3rd
Albert Friedman
Milton Sylvester Jellison
Robert Kirkland, Jr.
Leon Walter Konecki
Edward Rankin Ladd
Francis Ward Lovering
Reginald Peppard MacDonald
Melvin Almon McKenzie
Alfred Parker Mallet
Richard Anderson Monroe
Lauress Tibbetts Parkman
Richard Quigley
Alexander Hinds Raye
John Franklin Raye
Earle Duncan Reed
Bernard Clarence Robbins
Harland Glidden Turner

CHEMICAL WARFARE SERVICE

Charles Rounds Huntoon, Jr.

HONORARY DEGREES

James Phinney Baxter, 3rd, Doctor of Laws
Gladys Hasty Carroll, Doctor of Letters
Raymond Henry Fogler, Doctor of Laws
Lucien Percy Libby, Master of Arts
Erlon Lincoln Newdick, Master of Science
Lowell Jacob Reed, Doctor of Science
Paul Taylor White, Doctor of Music

Catalog of Students

Major subjects are indicated as follows: Ae. Agricultural Education, Ag. Agronomy, Agr. Agriculture, Agr. Eng. Agricultural Engineering, An. Animal Husbandry, 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

Akeley, Robert Vinton, B.S., Bt. & En. Maine, 1937	*Presque Isle*	Φ H K House
Anderson, Frank Abel, A.A., B.S., Ch.Eng. Junior College of Connecticut, 1934; University of Southern California, 1936	*Bridgeport, Conn.*	43 Peters Street
Barnes, Ronald Eugene, B.S., Ag. Maine, 1938	*Fort Fairfield*	11 Beech Street
Boyer, Azalea Ladner, B.A., Eh. Maine, 1938	*Kittery Point*	The Elms
Bradford, Robert Bruce, B.S., Me. Maine, 1934	*Orono*	40 Penobscot Street
Brockway, Philip Judd, B.A., Eh. Maine, 1931	*Orono*	90 Forest Avenue

Cail, Robert Small, B.A. Maine, 1939	*Portland*	53 North Main Street
Carter, Nelson Bradford, B.S., Ch. Maine, 1938	*Brewer*	12 Brimmer Street, Brewer
Crandon, Harry Drew, B.S., Ch. Maine, 1929	*Stillwater*	Bennoch Road, Stillwater
Daley, Alice Margaret, B.A., Eh. Mount St. Vincent, 1939	*Bangor*	187 Maple Street, Bangor
Durick, Rosemary Beatrice, B.A., Zo. New Brunswick, 1938	*Newcastle, N. B., Canada*	3 Riverdale
Dusenbury, Margaret Winifred Loesch, B.S., Eh. Wisconsin, 1937	*Orono*	74 North Main Street
Ellis, Reed Hobart, Jr., A.B., Ps. Bowdoin, 1939	*Rangeley*	11 South Brunswick Street, Old Town
Ennis, William Brice, Jr., B.S., Bl. Tennessee, 1939	*Monmouth*	Park Street
Epstein, Lucille, B.A., Sy. Maine, 1939	*Bangor*	298 Essex Street, Bangor
Folsom, Marie Theresa, B.S., Fn. Maine, 1939	*Orono*	63 Forest Avenue
Forde, Henrietta Elizabeth, A.B., Eh. Mount Allison, 1939	*Cookshire, Que., Canada*	36 College Road
Fry, James Howard, B.S., Bc. Pennsylvania State, 1938	*Harrisburg, Pa.*	14 Middle Street
Getchell, Amasa Stanley, B.S., Ch. Maine, 1938	*Bangor*	267 Forest Avenue, Bangor
Gillett, Gordon Edward, A.B., Hy. Bowdoin, 1934	*Old Town*	11 South Brunswick Street, Old Town
Gillis, Hugh Allan, B.S. in Ed., Es. Maine, 1939	*Lincoln*	Lincoln
Goodwin, Harry Allan, A.B., Wc. St. Anselm's, 1939	*Manchester, N. H.*	College Road
Gorham, Paul Raymond, B.A., Bt. & En. New Brunswick, 1938	*Fredericton, N. B., Canada*	37 Pine Street

Grant, Theodore Hudson, B.S., Ee. Maine, 1939	*Orono*	47½ Mill Street
Harding, Theodore Parker, B.A., Zo. Maine, 1938	*Cambridge, Mass.*	A T Ω House
Harriman, John Philip, B.S., Ee. Maine, 1939	*Cherryfield*	Σ X House
Hendrickson, Karl Newcomb, B.S., Ce. Maine, 1938	*Brewer*	43 Main Street
Holmes, Mildred, A.B., B.S., Ed. Colby, 1915; Simmons, 1918	*Eastport*	R.F.D. #7, Bangor
Kalil, John Hanna, B.S., Ce. New Hampshire, 1939	*Manchester, N. H.*	43 Main Street
Kandel, Herbert Jay, B.S., Ch.Eng. Virginia Military Institute, 1939	*Norfolk, Va.,*	4 Myrtle Street
Kelly, Donald Hoyt, B.S., Ch. New Hampshire, 1938	*Newton, N. H.*	43 Peters Street
Kirkpatrick, Alan Fred, B.S., Ch. Maine, 1939	*Old Orchard Beach*	430 College Road
Kittams, Walter Howeth, B.S., Wc. Utah State Agricultural College, 1939	*Great Falls, Mont.*	37 Pine Street
Kroll, Henry Michael, A.B., Zo. Clark, 1938	*New York, N. Y.*	53 North Main Street
Lamoreau, Jeanette, B.A., Ms. Maine, 1939	*Presque Isle*	South Hall
Landon, Melvin Voorhees, A.B., Ps. Williams, 1938	*Richmond, Ind.*	60 Park Street
Lekberg, Howard Parker, B.S., Me. Worcester Polytechnic Institute, 1932	*Orono*	43 Pine Street
Libby, Priscilla Haskell, B.A., Eh. Maine, 1939	*Orono*	51 North Main Street
McLaughlin, Gustavus Abbott, B.S., Fm. Maine, 1937	*Dyer Brook*	Φ H K House
Maass, Herman Martin, B.S., Ch.Eng. State College of Washington, 1939	*Spokane, Wash.*	26 Peters Street
Mallet, Alfred Parker, B.A., Ms. Maine, 1939	*South Portland*	Φ Γ Δ House

Mansfield, Agnes Lucy, A.B., Zo. *New Haven, Conn.* 3 Riverdale
Smith, 1938

Marston, Merwin Abbott, B.S., Wc. *East Waterford* Φ M Δ House
Maine, 1939

Montgomery, Robert Dudley, B.S., Wc. *St. Paul, Minn.*
Minnesota, 1937 53 North Main Street

Mundt, John Orvin, B.S., By. *Watertown, Wis.* 25 Myrtle Street
Wisconsin, 1938

Nason, Beverly Ross, B.S., Ch.Eng. *Old Town*
Maine, 1939 291 South Main Street, Old Town

Ogden, Edith Bolan, B.A., Bt. & En. *Orono* 36 Main Street
Maine, 1933

Oleson, Frederick Barbour, A.B., Ps. *Orono* 2 Myrtle Street
Colby, 1938

Osborne, John Clark, B.S., An. *Independence, Va.* 25 Myrtle Street
Virginia Polytechnic Institute, 1939

Osgood, Carl Chapin, B.S., Me. *Ellsworth* 7 Kell Street
Maine, 1938

Peacock, Norman Morrow, B.S., Ch. *St. John, N. B., Canada*
New Brunswick, 1939 430 College Road

Perkins, Philip Charles, B.S. in Ed., Ed. *Castine* 24 Pierce Street
Maine, 1933

Philbrook, George Edwin, B.S., Ch. *Tenafly, N. J.* 43 Peters Street
Maine, 1938

Pope, Donald Bartlett, B.S., Di. *Peoria, Ill.* 25 Myrtle Street
University of Illinois, 1938

Roberts, Gwilym Richard, B.S. in Ed., Hy. *Brownville* 25 Grove Street
Maine, 1939

Rowe, Mary Ellen, A.B., Ed. *West Minot* 41 Forest Avenue
Bates, 1935

Sanderlin, Owenita Harrah, B.A., Eh. *Orono* 36 Main Street
American University, 1937

Saveraid, Joye Harold, B.S., Wc. *Huxley, Iowa*
Iowa State, 1938 53 North Main Street

Sawyer, Clayton Leonard, B.A., Ch. Maine, 1938	*Orono*	Park Street
Spangler, Juliet Miller, A.B., Zo. Wheaton, 1939	*Bangor*	69 Howard Street, Bangor
Stacy, Joan Harriet, A.B., Zo. Smith, 1937	*Orono*	144 College Road
Sweatt, John Henry, B.A., Ed. Maine, 1930	*Orono*	48 Pine Street
Topping, Francis Lawrence, B.A., Zo. Maine, 1935	*Milbridge*	38 Pierce Street
Webb, Cynthia, B.A., Eh. Skidmore, 1937	*Brunswick*	20 Harthorn Street, Bangor
Wenger, Karl Frederick, B.S., Fy. Maine, 1939	*East Longmeadow, Mass.*	17 Margin Street
Wing, Merle Wesley, B.S., Zo. Maine, 1939	*Old Town*	35 Bradbury Street, Old Town
Woodbury, Harold Mace, B.S., Ed. Maine, 1937	*Orono*	7 Park Lane
Ziemer, Charles Walter, B.S., Ch. Utah State Agricultural College, 1938	*Ogden, Utah*	18 Penobscot Street

SENIORS

Adams, Edna Pearl, Py.	*South Brewer*	Balentine Hall
Adams, Norris Stanwood, Es.	*Portland*	102 Oak Hall
Adkins, Harlow Dailey, Me.	*Norway*	Α Τ Ω House
Akeley, Richard Warren, Fm.	*Presque Isle*	Φ Η Κ House
Albee, Burton Hathaway, Me.	*West Roxbury, Mass.*	Σ Χ House
Albert, Paul Aurele, Bc.	*Presque Isle*	45 Mill Street
Alpert, Myer, Hy. & Gt.	*Bangor*	137 State Street, Bangor
Andrews, Roger Stover, Es. & Gt.	*Augusta*	Σ Χ House
Arbo, Ervin Alexander, Ed.	*Brownville*	25 Grove Street
Armstrong, Elizabeth Rae, He.	*Vanceboro*	South Hall
Arthur, Garfield Manning, Ee.	*Fitchburg, Mass.*	Β Θ Π House
Ashby, James Hanlon, Fm.	*Caribou*	Φ Η Κ House
Atwood, Robert Dixon, Hy.	*Portland*	Σ Χ House

Bacon, Earl Grant, Me.	*Oakland*	25 Grove Street
Bahrt, Albert Edgar, Ge.	*North Islesboro*	Σ A E House
Bannigan, Marguerite Connor, Eh.	*Waterville*	Balentine Hall
Barrell, William Dwight, Fm.	*Turner*	Σ A E House
Barstow, Virginia Lucille, Eh.	*Brewer*	52 Chamberlain Street, Brewer
Beardsell, Wallace Ames, Ch.Eng.	*Weston, Mass.*	102 H. H. Hall
Beckerman, Frank Maurice, Es.	*Brookline, Mass.*	T E Φ House
Belknap, Russell Eliott, Me.	*Norfolk, Mass.*	B Θ Π House
Berce, Woodbury Lee, Jr., Fm.	*Washburn*	Φ H K House
Bessey, Earle Dutton, Jr., Fy.	*Brooks*	Φ H K House
Bickford, Priscilla Hope, Sy.	*Portland*	Balentine Hall
Bither, Donald Elmer, Ce.	*Linneus*	41 Mill Street
Blake, Howard Francis, Me.	*Portland*	Θ X House
Blake, Janet Emily, He.	*LaGrange*	40 College Road
Blom, Carl Johansen, Es.	*Portland*	443 Hammond Street, Bangor
Bolan, John Everett, Ba.	*Winterport*	36 Main Street
Bonney, Robert Harlan, Ge.	*Portland*	University Cabin
Bonville, Jeannette Louise, Fr.	*Presque Isle*	Colvin Hall
Bouchard, Albert James, Ag.	*Caribou*	151 Park Street
Bouchard, Kenneth Joseph, Fm.	*Caribou*	Δ T Δ House
Bower, William Sumner, Me.	*Auburn*	Δ T Δ House
Brann, Edward Kenneth, Fy.	*Plainfield, N. J.*	Δ T Δ House
Breton, Leon Joseph, Ch.Eng.	*Rumford*	106 H. H. Hall
Bridges, Alton George, Ag.	*Mars Hill*	Φ H K House
Bronsdon, Harold Clark, Fy.	*Newton Centre, Mass.*	Λ X Λ House
Brooks, William King, Ht.	*Portland*	22 Pond Street
Brown, Charles Donald, Ed.	*Eastport*	56 Park Street
Brown, Phyllis Esther, Sy. & Py.	*Ocean Park*	Balentine Hall
Browne, Clark Wainwright, Ee.	*North Abington, Mass.*	24 Pierce Street
Bucklin, Fred Robert, Wc.	*South Warren*	Φ K Σ House
Bull, Floyd Leland, Ag.	*Presque Isle*	Φ H K House
Bullard, Edward Chesseldon, Ba.	*Glens Falls, N. Y.*	Λ T Ω House
Burke, Gerard James, Fy.	*Concord, Mass.*	Σ X House
Burleigh, Robert Wentworth, Me.	*Boothbay Harbor*	Λ T Ω House
Burr, Kenneth George, Ht.	*Kennebunk*	Φ H K House
Buss, Frank Joseph, Fy.	*Central Falls, R. I.*	Λ X Λ House
Butler, Lyle Alton, Jr., Ch.Eng.	*Gardiner*	Δ T Δ House
Byram, Harry Melcher, Ee.	*Freeport*	Σ A E House

Calderwood, Carolyn Frances, He.	*Vinalhaven*	North Hall
Calvo, Raymond John, Ht.	*New York, N. Y.*	22 Pond Street
Cameron, John Robert, Ce.	*Broadalbin, N. Y.*	Λ X Λ House
Caouette, Daniel Joseph, Hy. & Gt.	*Skowhegan*	2 Summer Street
Carlisle, John Davis, Es.	*Bangor*	Φ Γ Δ House
Carr, Douglas Harold, Me.	*Dexter*	Λ T Ω House
Carter, Gordon Palmer, Ch.Eng.	*Brewer*	12 Brimmer Street, Brewer
Chandler, Theodore Pinkham, Pa.	*South Paris*	25 Grove Street
Chandler, William Heywood, Ge.	*Portland*	Σ X House
Charpentier, Allyn Eugene, Me.	*Flushing, L. I., N. Y.*	Σ N House
Checchi, Vincent Victor, Es.	*Calais*	Θ X House
Citrin, Murray Maurice, Py.	*Portland*	35 Grove Street
Clark, Eldon Ralph, Fy.	*Dennysville*	Φ M Δ House
Clark, Sumner Starrett, Hy.	*Cape Elizabeth*	University Cabin
Clement, James Donald, Jr., Zo.	*Bangor*	77 Essex Street, Bangor
Clough, Charles Henry, Jr., Ba.	*Blue Hill*	80 Pine Street
Coffee, Marjorie Eleanor, He.	*Clayville, N. Y.*	Balentine Hall
Coffin, Robert Tristram, Es.	*Brunswick*	Λ T Ω House
Cogswell, Fred Melville, Jr., Hy. & Gt.	*Danvers, Mass.*	Φ Γ Δ House
Cohen, Bernard, Me.	*Biddeford*	T E Φ House
Connolly, James Joseph, Ba.	*Portland*	Θ X House
Cook, Edward Jay, Jr., An.	*Rutland, Vt.*	Λ T Ω House
Cook, William Sherwood, Me.	*Tenants Harbor*	Φ M Δ House
Cooper, Mary France, He.	*Beverly Farms, Mass.*	Balentine Hall
Cormier, Everett Lawrence, Ed.	*Van Buren*	21 A Mill Street
Cotting, Roger, Es.	*Newton, Mass.*	B Θ Π House
Crabtree, Irvia Hinckley, Py.	*Blue Hill*	15 Pierce Street
Craig, Robert Elmer, Ag.	*Westfield*	17 Boynton Street, Bangor
Cramer, Francis Leroy, Ce.	*Bristol*	89 State Street, Brewer
Crocker, Barbara Ellen, Ed.	*Fort Kent*	Colvin Hall
Crockett, Russell Edward, Ed.	*Houlton*	Λ T Ω House
Cullinan, Robert Vincent, Zo.	*South Portland*	Φ Γ Δ House
Curran, Mary Cecilia, He.	*Lewiston*	Balentine Hall
Currier, Stuart Lavers, Fy.	*Sandwich, Mass.*	Σ N House
Curtis, Philip Edward, Fm.	*Caribou*	112 Oak Hall
Cuzner, Wilbur Leonard, Ba.	*Belfast*	Φ K Σ House
Danforth, Norman Lewis, Jr., Ee.	*Bucksport*	Λ X Λ House
Darveau, George Francis, Gt.	*Orono*	38 Middle Street

Davis, Edward Everett, Ce.	*Burnham*	18 Oak Street
Day, Dorothy, Hy. & Gt.	*Orono*	203 Main Street
Deering, Marjorie Bowman, He.	*Orono*	160 College Road
Dennis, Clarence Elmer, Ce.	*Rumford*	Φ K Σ House
Dequine, John Frederick, Wc.	*Long Branch, N. J.*	A T Ω House
Derry, John Harry, Ch.Eng.	*Rumford*	K Σ House
Desjardins, Ruth Ursula, He.	*Old Town*	122 South Brunswick Street, Old Town
DeWitt, Frank William, An.	*Sherman Mills*	25 Grove Street
Digby, George Tabor, Fy.	*Hallandale, Fla.*	Φ Γ Δ House
Dimick, William Carl, Wc.	*New Haven, Conn.*	Δ T Δ House
Donovan, Alice Ann, Zo.	*Houlton*	Colvin Hall
Dow, Dorrice Helen, He.	*Bangor*	267 Pine Street, Bangor
Dow, Loren Woodbury, Sy.	*Bangor*	120 West Broadway, Bangor
Duby, Carleton Paul, Fy.	*Bradley*	Bradley
Duplisse, Kathleen Esther, Rl.	*Old Town*	156 Stillwater Avenue, Old Town
Dyer, Harold Jacobsen, Wc.	*Gorham*	Σ A E House
Dyer, Jane, Py.	*Framingham, Mass.*	Balentine Hall
Dyer, Richard Charles, Fm.	*Gorham*	Σ A E House
Dyke, Ronald Arno, Me.	*Livermore Falls*	Σ A E House
Eaton, Wendell Gordon, Ed.	*Dexter*	25 Grove Street
Ebbeson, Helma Katrina, Hy.	*Bangor*	South Hall
Ela, Benjamin Walter, Jr., Ch.Eng.	*North Anson*	83 Park Street
Ellis, Ernest, Hy.	*Orono*	29 Park Street
Erlick, Ruth Frances, Ed.	*Portland*	The Elms
Eveleth, Lawrence Nathaniel, Ag.	*Auburn*	26 Island Avenue
Fairchild, Marion Elizabeth, Ed.	*Portland*	The Elms
Farrar, Herbert Wendell, Ee.	*Hingham, Mass.*	A T Ω House
Fay, Norman Frederic, Ba.	*Needham, Mass.*	K Σ House
Fessenden, Ruth Natalie, Py, & Sy.	*Portland*	Colvin Hall
Files, Maynard Whitney, Fy.	*Portland*	Φ K Σ House
Finks, Marcia Jannette, He.	*Portland*	Balentine Hall
Finnigan, William Joseph, Ba.	*Portland*	151 Park Street
FitzGerald, Marion Hannah, Eh.	*Newburgh, N. Y.*	Balentine Hall
FitzPatrick, James Joseph, Jr., Ba.	*Marblehead, Mass.*	112 H. H. Hall

Flanagan, Eileen Mary, He.	*Bangor*	207 Maple Street, Bangor
Freeman, Josephine Anne, Ch.A.	*Portland*	South Hall
Gartley, Myron Stewart, Ag.	*Presque Isle*	Φ H K House
Gates, Stanley Richard, An.	*South Paris*	A Γ P House
Gavett, Andrew Willard, Es.	*Dennysville*	14 Park Street
Gerrish, Harold Aldrich, Ps.	*Lisbon Falls*	A T Ω House
Gilpatrick, Arlo Eugene, Me.	*Mars Hill*	Φ M Δ House
Glasser, Joseph Herman, Es.	*Roxbury, Mass.*	14 Park Street
Gleason, Lawrence John, Ce.	*Bangor*	95 Otis Street, Bangor
Glines, Ella Mabel, Ed.	*Unity*	3 Riverdale
Gloden, Felix Anthony, Ed.	*Mexico*	25 Grove Street
Gogan, Patricia Kathryn, Rl.	*Orono*	R.F.D. #7, Bangor
Golden, Francis Patrick, Fy.	*Hampden Highlands*	Hampden Highlands
Golden, Miriam Natalie, Sy.	*Bangor*	326 State Street, Bangor
Goldsmith, Richard, Ba.	*Salem, Mass.*	Φ M Δ House
Goodrich, William George, Fy.	*Morrisville, Vt.*	Park Street
Gotlieb, Peter, Hy. & Gt.	*Bangor*	121 Grove Street, Bangor
Grant, Ralph Tozier, Ag.	*Presque Isle*	45 Mill Street
Gray, Douglas Elliot, Fy.	*Warren*	Φ K Σ House
Gray, Gooden, Me.	*South Brooksville*	29 Pond Street
Grimmer, Stewart William, Ba.	*Portland*	Φ Γ Δ House
Gross, Stephen Keith, Me.	*Camden*	Φ K Σ House
Hall, Marguarite Lucille, He.	*Orono*	24 Crosby Street
Halliday, Harry Horn, Fy.	*Newtonville, Mass.*	26 Peters Street
Hamilton, Robert John, Me.	*Madison*	15 Park Street
Hamilton, William Douglas Greene, Fy.	*White Plains, N. Y.*	Φ H K House
Hanley, Walter Edward, Fm.	*Orono*	48 Mill Street
Hannan, Hazen Betford, Ch.Eng.	*Liberty*	25 Grove Street
Harmon, James Arnold, Ed.	*Presque Isle*	88 Park Street
Harrington, Joseph Leonard, Ag.	*Patten*	308 H. H. Hall
Harris, John Norman, Ce.	*Anson*	Φ M Δ House
Harris, Louis Tolman, Fm.	*Milo*	K Σ House
Hart, Ann Arlene, He.	*South Hope*	Balentine Hall
Hartwell, Henry Lloyd, An.	*Stetson*	Farm Boarding House
Hatch, William Henry, Fy.	*Dark Harbor*	University Cabin
Hauck, Margaret Ernestine, Eh.	*Orono*	Campus
Hawes, Emil Franklin, Ce.	*Bangor*	32 Royal Road, Bangor
Heald, Erwin Lovett, Ag.	*Lincolnville*	83 Park Street

Hebel, Richard Edwin, Ce.	*Brewer*	178 Parker Street, Brewer
Henderson, Arthur Alexander, Ed.	*Anson*	25 Grove Street
Hennessy, Louis Daniel, Ch.Eng.	*Brewer*	18 High Street, Brewer
Heughan, Herbert Milton, Ms.	*Bangor*	41 Mill Street
Higgins, Harold Donham, Ce.	*Lewiston*	Σ A E House
Higgins, Raymond Dyer, Zo.	*Dennysville*	Φ K Σ House
Hinkley, Philip Joseph, Ch.Eng.	*Cumberland Mills*	72 Main Street
Holland, Stanley Robert, Me.	*Portland*	Σ X House
Holmes, Jane, Zo.	*West Winfield, N. Y.*	Balentine Hall
Holmes, Richard, Fy.	*Northeast Harbor*	Princeton
Holt, Fred Edward, Fy.	*Oxford*	64 Hill Street
Howard, Clayton Wendell, Fm.	*North Monmouth*	395 College Road
Howard, Preston Oliver, Me.	*Rumford*	Φ Γ Δ House
Hoy, Wayne Victor, Ed.	*Sherman Mills*	45 Mill Street
Humphries, Benjamin Shattuck, Ed.	*Perry*	56 Park Street
Hunt, Orman Pearl, Dt.	*Clinton*	A Γ P House
Hunter, James Harold, Me.	*West Roxbury, Mass.*	Θ X House
Hurley, Edith Mae, Ms.	*Skowhegan*	Balentine Hall
Hutchinson, Philip Allan, Me.	*West Buxton*	7 Park Street
Jackman, Hope Adelaide, Ed.	*Orono*	College Road
Jackman, Mary Sylvia, He.	*Mount Vernon*	South Hall
Jellison, Howard Lozier, Ed.	*Surry*	5 Forest Avenue
Jellison, Pauline Winifred, Eh.	*Bangor*	341 French Street, Bangor
Johnson, Elspeth Burnett, He.	*Gloucester, Mass.*	Home Management House
Johnson, Joseph Myron, Fm.	*Harrison*	25 Grove Street
Johnson, Paul Leslie, Fm.	*Brooks*	33 Peters Street
Johnson, Stanley Fairfield, Fm.	*Brunswick*	395 College Road
Johnston, Frederick John, Ba.	*Bangor*	Φ Γ Δ House
Johnston, Raymond Randall, Ba.	*Fort Fairfield*	Φ H K House
Jones, Barbara Nancy Adams, Pl.	*Orono*	68 Main Street
Jones, Franklyn Lewis, Fy.	*South Portland*	Φ Γ Δ House
Jones, Mary Elizabeth, He.	*Sumner*	Balentine Hall
Jordan, John Haskell, Fm.	*Fryeburg*	A T Ω House
Kane, Thomas Franklin, Jr., Zo.	*Portland*	18 Oak Street
Kelley, Daniel Lenhart, Ed.	*Eastport*	56 Park Street
Kennedy, Mary Charlotte, He.	*Monmouth*	South Hall
Kenney, Howard Marshall, Ee.	*Millinocket*	Φ M Δ House

Kent, Rachel Woodman, He.	*Bangor*	Balentine Hall
Keyes, Allston Prentice, Ch.Eng.	*Washington, D. C.*	B Θ Π House
Kimball, Vernon Lord, Ce.	*Sangerville*	College Road
Knobler, Abraham, Pa.	*Jamaica, N. Y.*	151 Park Street
Knowlton, Charles Wentworth, Sy.	*Carmel*	Carmel
Knowlton, Robert Canfield, Es.	*Westbrook*	Λ X Λ House
Kruse, Elizabeth Marie, He.	*Bangor*	The Maples
LaBarge, Bernard Aloysius, Es.	*Bucksport*	Φ Γ Δ House
Ladd, Chester Morris, Fy.	*Waterville*	25 Grove Street
Laffin, Catherine Scribner, He.	*Ellsworth*	Balentine Hall
Lancaster, Helengrace, He.	*Old Town*	154 Stillwater Avenue, Old Town
Lane, Arnold Clifford, Fm.	*Brewer*	K Σ House
Lanigan, Edwin James, Es.	*Belmont, Mass.*	K Σ House
Lawrence, Estelle Merrill, He.	*Gray*	Balentine Hall
Lawry, Edward Heath, Wc.	*Fairfield*	B Θ Π House
Leafe, Russell Paul, Me.	*Kennebunkport*	123 Middle Street, Old Town
Leavitt, Ruth Madeline, Py.	*Old Town*	83 North Fourth Street, Old Town
Levis, Robert Harry, Ge.	*Alton, Ill.*	4 Summer Street
Libbey, Elizabeth, He.	*Milford, Mass.*	Balentine Hall
Libby, Stanley Morse, Ed.	*Chebeague Island*	3 Park Street
Lindell, Wiljo Maurice, Ch.Eng.	*Warren*	University Cabin
Lindsay, Andrew Gowen, Ba.	*North Monmouth*	114 Park Street
Linscott, Stanley Paul, Wc.	*Cornish*	Φ M Δ House
Littlefield, Joseph Rackliff, Ce.	*Brooks*	University Cabin
Locke, Boynton, Jr., Ms.	*Boothbay Harbor*	Σ N House
Lord, Edwin Moor, Zo.	*Skowhegan*	Σ X House
Loring, Malcolm Stevens, Fm.	*Portland*	Men's Infirmary
Lovering, Francis Ward, Py.	*Tyngsboro, Mass.*	1 Spencer Lane
McCain, James Stanley, Ba.	*Houlton*	Sigma Nu House
McClelland, Ruth Winifred, He.	*Clinton, Conn.*	Balentine Hall
MacDonald, Robert William, Me.	*York Village*	Σ X House
McDowell, Conrad Wayman, Eh.	*Portland*	Δ T Δ House
McEachern, Carl Alexander, Ce.	*Greenville Junction*	Σ A E House
MacGillivray, John Oliver, Fy.	*Newton Lower Falls, Mass.*	K Σ House

McLaughlin, Eugene Lawrence, Fm.	*Limestone*	Δ T Δ House
McNeil, Warren Rupert, Fy.	*Bath*	Φ H K House
McPhee, Lawrence Louis, Me.	*Old Town*	42 Union Street, Old Town
McPheters, Leonard Lamont, Me.	*Bangor*	15 Savage Street, Bangor
McPheters, Linwood Snider, Me.	*Bangor*	15 Savage Street, Bangor
Maasen, John Henry, Jr., Wc.	*Scarsdale, N. Y.*	Φ K Σ House
Maddocks, Asenath Lucille, Ed.	*Brewer*	7 Harlow Street, Brewer
Maines, John Thornton, Fy.	*Hartford, Conn.*	B Θ Π House
Maling, Helen Louisa, Py.	*Kennebunkport*	Balentine Hall
Mann, Ivie Wendell, Ed.	*South Brewer*	Spring Street, Stillwater
Marks, Phyllis Ruth, Eh.	*Brookline, Mass.*	Colvin Hall
Marsh, John Ambrose, Fy.	*Bridgeport, Conn.*	Φ H K House
Marshall, Donald McCutcheon, Me.	*Bath*	Σ N House
Martin, Albert Denis, Ed.	*Orono*	104 Mill Street
Martin, Frank Samuel, Me.	*Bath*	Φ M Δ House
Martin, Oscar Romuald, Ae.	*Frenchville*	104 Mill Street
Maxwell, Margaret, Sp.	*Bangor*	Colvin Hall
Mercier, Woodrow Abel, Ed.	*Rumford*	25 Grove Street
Merrill, Fred Patterson, Ce.	*Bangor*	254 Elm Street, Bangor
Merrill, Robert Stanton, Wc.	*Gray*	Σ X House
Milliken, Wendall Seavey, Fm.	*Portland*	12½ Pleasant Street
Mitchell, Nahum Wentworth, Jr., Ch.Eng.	*West Newfield*	Φ Γ Δ House
Moore, Donald Horatio, Wc.	*Beverly, Mass.*	Δ T Δ House
Moore, Eugene Lincoln, Fy.	*Houlton*	Φ H K House
Morin, Paul Eugene, Es. & Gt.	*Cranston, R. I.*	Σ X House
Morneault, Adrian Lucien, Ag.	*Lille*	21A Mill Street
Morong, Raymond Lee, Ee.	*Madison*	Σ N House
Morton, Richard Gwynne, Me.	*Farmington*	Σ A E House
Mulholland, Elizabeth Catherine, Eh.	*Lubec*	Balentine Hall
Murphy, Muriel Margaret, He.	*Fort Fairfield*	Balentine Hall
Murphy, Robert Elwood, Zo.	*Oakfield*	Φ H K House
Nelson, Harley Cummings, Ch.Eng.	*Reading, Mass.*	Δ T Δ House
Nelson, Harry Servatus, Jr., Me.	*North Vassalboro*	Φ M Δ House
Nickerson, Amorette Bryer, Ed.	*Winterport*	23 Park Street
O'Brien, Oric Osman, Fy.	*Brooks*	7 Kell Street
O'Connell, Harold Joseph, Fr. & Lt.	*Bangor*	40 Fern Street, Bangor
Oleson, Charlotte Elizabeth, Pl.	*Orono*	2 Myrtle Street

Palmer, Raymond Jordan, Eh.	*West Roxbury, Mass.*	72 Main Street
Pangburn, Alvah Edward, Ag.	*Caribou*	Φ H K House
Patterson, Paul Keith, Fy.	*Willimantic*	Park Street
Peabody, Herbert Stanley, Fm.	*Houlton*	K Σ House
Pease, Virginia Frances, Hy. & Gt.	*Wiscasset*	North Hall
Peaslee, Margaret Hall, He.	*Concord, N. H.*	Balentine Hall
Peirce, Charles Albert, Jr., Hy. & Gt.	*Bangor*	K Σ House
Perry, Anne Elizabeth, Ms.	*Bangor*	333 Hammond Street, Bangor
Perry, Clarence Henry Merrill, Ed.	*Wayne*	Kell Street
Phair, Dorothy Elizabeth, He.	*Limestone*	Balentine Hall
Phelps, Mary Pond, Py.	*Foxboro, Mass.*	Balentine Hall
Pierce, Earle Sidney, Fm.	*Old Town*	Σ N House
Pierson, Alvalene May, Zo.	*Tenant's Harbor*	South Hall
Pillsbury, John Wallace, Ed.	*Benton Station*	18 Oak Street
Pipes, Ralph Lawrence, Zo.	*Houlton*	Σ N House
Plummer, John Flagg, Ce.	*Bangor*	41 Forest Avenue
Potter, Walter Edwin, Ph.	*Sabattus*	Λ Γ P House
Powell, Stephen Edwin, Wc.	*Orono*	69 Forest Avenue
Pratt, Clarence LeRoy, Es. & Gt.	*Bangor*	R.F.D. #2, Bangor
Pratt, John Harold, Fy.	*Oxford*	Δ T Δ House
Pray, Lucie Adelaide, Zo.	*Melrose, Mass.*	Balentine Hall
Pryor, Henry Paul, Ch.Eng.	*Union City, Conn.*	Σ X House
Rader, William August, Ce.	*Westfield, N. J.*	Φ H K House
Rand, John Albert, Ph.	*North Anson*	Λ Γ P House
Ray, Conrad Alan, Ch.Eng.	*Canton*	Δ T Δ House
Raymond, Roy Claude, Me.	*Mars Hill*	Φ K Σ House
Redman, Annette Youngs, He.	*Bangor*	225 Center Street, Bangor
Reed, Carolyn Pennell, He.	*Portland*	Balentine Hall
Reed, Cecil Edward, Me.	*Southwest Harbor*	Δ T Δ House
Reed, John Preston, Ht.	*South Brewer*	R.F.D. #8, South Brewer
Reynolds, Ralph Milton, Ce.	*Orono*	5 Forest Avenue
Rhoda, Frances Eleanor, He.	*Milo*	Balentine Hall
Rich, Edwin Stanton, Ee.	*Charleston*	25 Grove Street
Rich, Nathan Harold, Me.	*Charleston*	Stillwater
Richard, Octave Francis, Ce.	*Bangor*	170 Garland Street, Bangor
Richardson, Arthur William, Me.	*Poland*	Φ Γ Δ House
Rideout, Linwood Browne, Fy.	*Bowdoinham*	Φ K Σ House

Roberts, Malcolm Woodbury, Fm.	*Alfred*	Φ M Δ House
Robertson, Eleanor Maxine, He.	*Portland*	South Hall
Robertson, Robert Brewer, Zo.	*Presque Isle*	25 Grove Street
Robie, Frederick Wilbur, Me.	*Auburn*	Φ M Δ House
Roche, Paul Joseph, Zo.	*Eastport*	80 North Main Street
Rogers, Anthony Joseph, Ed.	*Bangor*	63 Boyd Street, Bangor
Ross, Edward Ernest, Fy.	*Orono*	56 Park Street
Roth, Alice Patricia, Ed.	*Stratford, Conn.*	Colvin Hall
Rowe, Rosalind Mellie, Ed.	*Bethel*	Balentine Hall
Rubinoff, Dorothy Helene, He.	*Portland*	Balentine Hall
Russell, Eugene Osborn, Ch.Eng.	*Yarmouth*	35 Grove Street
Russell, Marianne Louise, Zo.	*Phillips*	Balentine Hall
Saltzman, Ada Edythe, Jn.	*Bangor*	303 Broadway, Bangor
Samuelson, Robert Wentworth, Py.	*Waban, Mass.*	B Θ Π House
Savage, Elnora Louise, Eh.	*Bangor*	127 Maple Street, Bangor
Sawyer, Margaret Claire, He.	*Gray*	Balentine Hall
Sawyer, Richard Miles, Me.	*Portland*	Φ M Δ House
Scanlin, Donald Alexander, Sy.	*Newport*	Newport
Schmidt, George Gerald, Bc.	*Forest Hills, L. I., N. Y.*	Σ X House
Schoppee, Fred Holway, Jr., Dt.	*Machias*	14 Kell Street
Schultz, Walter Melvin, Ba.	*Portland*	T E Φ House
Scribner, Mary, Py.	*Topsham*	Balentine Hall
Shapiro, Jacob, Wc.	*Salem, N. J.*	T E Φ House
Sheedy, John Richmond, Es.	*Portland*	Φ Γ Δ House
Shipman, Wayne Fonda, Jr., Ht.	*Worcester, Mass.*	Λ X A House
Shiro, Dorothy Elizabeth, Eh.	*Bar Harbor*	Balentine Hall
Shiro, James Cople, Es.	*Old Town*	30 South Fourth Street, Old Town
Simpson, Anna Margaretha, He.	*South Gray*	Balentine Hall
Smart, Atwood Ora, Ba.	*Houlton*	K Σ House
Smith, Basil Lougee, Eh.	*Winterport*	81 Main Street
Smith, Blake Harmon, Ag.	*Exeter*	Σ A E House
Smith, Donald Calvin, Ag.	*Easton*	Φ H K House
Smith, Irving Kitchen, Ag.	*Presque Isle*	25 Grove Street
Smith, Ralph Getchell, Ag.	*Exeter*	Main Street
Smith, Richard Marvard, Ht.	*Orono*	382 College Road
Smith, Winfield Clinton, Ee.	*Richmond, Va.*	Σ N House
Soderquist, Philip Gustaf, Ed.	*Monson*	14 Kell Street

Sparks, Donald Tennyson, Hy. & Gt.	*Phillips*	38 Oak Street
Spencer, Arlo Norman, Fy.	*Bradley*	Bradley
Spencer, Carl Edward, Ch.	*Anson*	43 Peters Street
Spofford, Gerald Ellsworth, Wc.	*Kennebunk*	Φ H K House
Spruce, Irene Burr, Py.	*Orono*	128 College Road
Stanley, Edward Waldron, Me.	*Farmington*	Φ M Δ House
Steeves, Jerome Irving, Wc.	*Lincoln*	Φ M Δ House
Steinmetz, Margaret Olive, He.	*Orono*	36 College Road
Stevens, Ellen Heath, Ed.	*Bath*	Colvin Hall
Stewart, Robert Frank, Ch.Eng.	*Winthrop*	Λ X Λ House
Stinson, Lois Elizabeth, Ed.	*Stonington*	Colvin Hall
Stockholm, Harold Yager, Fy.	*Poughkeepsie, N. Y.*	College Road, Star Route
Stone, Theodore Mordecai, Zo.	*Dorchester, Mass.*	T E Φ House
Striar, Louis, Ee.	*Bangor*	14 Adams Street, Bangor
Stuart, Parker Osborne, Ce.	*Bridgton*	2 Summer Street
Susi, Guy, Ce.	*Pittsfield*	395 College Road
Swartz, Maynard Erwin, Zo.	*Roxbury, Mass.*	T E Φ House
Sylvester, Norma Leone, Fr.	*Deer Isle*	Balentine Hall
Szaniawski, Edward William, Fy.	*Scarsdale, N. Y.*	Princeton
Tarbell, Gridley Weatherbee, Ms.	*Bangor*	188 Broadway, Bangor
Thibodeau, Gauthier Abel, Wc.	*Orono*	16 Hamlin Street
Thibodeau, Louis Henri, Rl.	*Rumford*	25 Grove Street
Thomas, Frances Priscilla, Eh.	*Houlton*	Colvin Hall
Thomas, George Merrill, Ce.	*Rumford*	Φ Γ Δ House
Thomas, Kenneth Llewellyn, Es.	*Portland*	6 Mill Street
Thompson, Merrill Gene, Me.	*Southport*	K Σ House
Thorn, Raymond Edgar, Ee.	*Reading, Mass.*	Σ N House
Tondreau, Gertrude Ruth, Fr.	*Brunswick*	Balentine Hall
Trask, Doreen Mildred, He.	*Farmington*	Balentine Hall
Trask, Roger Boardman, Fy.	*Bangor*	234 Pine Street, Bangor
Treat, William Wardwell, Gt. & Es.	*Winterport*	106 Oak Hall
Tremaine, Richard Leighton, Ee.	*Bangor*	Λ X Λ House
Trickey, Ruth Elizabeth, Dr.	*Pittsfield*	Colvin Hall
Tufts, Marion Rhoda, He.	*South Berwick*	South Hall
Turner, Frederick Wayne, Dt.	*Stetson*	14 Kell Street
Tuttle, Virginia Margaret, Ms.	*East Corinth*	South Hall
Upham, Mary Adelaide, Fr.	*Biddeford*	36 Forest Avenue
Upton, Frank Eric, Fm.	*Monticello*	University Greenhouse

Warner, Helen Althea, He.	*Bangor*	192 Fourteenth Street, Bangor
Warren, Julia Winifred, Py.	*Lubec*	Balentine Hall
Wass, Philmore Burlon, Ed.	*Machias*	Kell Street
Watson, Geraldine Eames, Py.	*Bangor*	Colvin Hall
Weaver, Charles Lancaster, Ce.	*Presque Isle*	Φ H K House
Welch, Barbara Louise, Ed.	*Bangor*	Colvin Hall
West, William Francis, Jr., Py.	*Bangor*	Φ Γ Δ House
Westin, Linnea Beatrice, Hy. & Gt.	*Bangor*	114 Allen Street, Bangor
Wheeler, Harold Randolph, Pa.	*Fulton, N. Y.*	Φ K Σ House
Whicher, Ralph Francis, Bc.	*Springvale*	University Cabin
White, Marion Louise, Py.	*Bangor*	359 Hammond Street, Bangor
Whitman, Edith Irene, He.	*Stonington*	Balentine Hall
Whitney, Clifton Eugene, Fm.	*Winn*	22 Kenduskeag Avenue, Bangor
Whitney, Norman Eveleth, Dt.	*West Newton, Mass.*	A T Ω House
Williams, Rees Coffin, Me.	*Westwood, Mass.*	K Σ House
Willins, Linwood Gerald, Ch.Eng.	*Bucksport*	University Cabin
Wilson, Charles, Pa.	*Eastport*	Φ M Δ House
Wilson, Gleason Woodrow, Fm.	*Jonesboro*	40 Penobscot Street
Woods, Evelyn Ruth, Ed.	*Gorham*	23 Bennoch Street
Woodward, Joyce Clara, Hy. & Gt.	*Auburn*	Balentine Hall
Worcester, Ruth Mabel, He.	*Newtonville, Mass.*	Balentine Hall
Young, Constance, He.	*Norway*	South Hall
Young, Hugh Edwin, Ed.	*Aurora*	Commons

JUNIORS

Adams, Albert Hayden, Pa.	*Canton Point*	Kell Street
Adams, Charles Edward, Me.	*Madison*	University Cabin
Adams, Clarence Kempton, Fm.	*Easton*	A T Ω House
Alford, Wilson Merriman, Ce.	*Windsor, Conn.*	312 Oak Hall
Allen, Dorothy Irene, Hy.	*Bucksport*	Bucksport
Allen, Elwood Arthur, Ed.	*Livermore Falls*	56 Park Street
Alpert, Sidney Morris, Hy.	*Bangor*	455 Main Street, Bangor
Anderson, Frank Ernest, Ed.	*Richmond*	25 Grove Street
Anderson, Harold Frederick, Ch.Eng.	*Arlington, Mass.*	Σ X House
Anderson, Roy Laurel, Dt.	*Newport*	88 Park Street
Arbor, Charles Joseph, Es.	*Rumford*	401 H. H. Hall

Ashworth, Barbara Rose, Eh.	*Orono*	88 North Main Street
Astor, David, Zo.	*Portland*	T E Φ House
Austin, Henrietta Isabelle, Ed.	*Fort Kent*	South Hall
Babel, William Keith, Bt. & En.	*North Tonawanda, N. Y.*	35 Grove 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
Barter, Sarah Louise, He.	*Clinton*	87 Main Street
Bartley, Henry Havelock, Ag.	*Presque Isle*	26 Island Avenue
Bates, Mary Lena, He.	*Bath*	Balentine Hall
Beasom, George Reynold, Ht.	*Orono*	100 North Main Street
Bell, Kenneth Dean, Me.	*Orono*	188 Main Street
Benjamin, Roger Olney, Pa.	*New York, N. Y.*	69 Forest Avenue
Bennett, Robert Howard, Ce.	*Cranston, R. I.*	Σ X House
Benson, Ruth Ellen, He.	*Kennebunkport*	15 Pierce Street
Berry, Rockwood Norton, Ht.	*Livermore Falls*	Men's Infirmary
Besse, Beatrice Austin, Ed.	*Brooks*	23 Bennoch Street
Billings, Paul Clayton, Ch.Eng.	*Stonington*	15 Park Street
Black, Gardner Angus, Ch.Eng.	*Orono*	80 Forest Avenue
Black, Irving Halsey, Wc.	*Long Branch, N. J.*	Λ Γ P House
Blaisdell, Donald, Ee.	*Reading, Mass.*	Φ K Σ House
Blaisdell, Kenneth Wilbur, Es.	*Ellsworth*	Φ K Σ House
Bond, Avery Lindley, Me.	*Jefferson*	38 Pine Street
Boone, Mary Elizabeth, He.	*Presque Isle*	Colvin Hall
Booth, William Roberts, An.	*Cumberland Center*	Λ Γ P House
Boyle, Harry Louis, Ee.	*Bangor*	59 Essex Street, Bangor
Boyle, Jean Elizabeth, Dr.	*Madison*	South Hall
Boyle, Kathleen Mary, Eh.	*Madison*	South Hall
Brackett, Donald Twitchell, Fy.	*Portland*	Φ Γ Δ House
Bracy, Horace Gordon, Ba.	*Ogunquit*	Λ X Λ House
Bradbury, Dorothy Marie, Ed.	*Fort Kent*	505 College Road
Bramhall, Richard Arthur, Me.	*Quincy, Mass.*	B Θ Π House
Brann, William Henry, Es.	*Gardiner*	K Σ House
Bridges, June Hanson, Zo.	*Boundary Cottage*	Colvin Hall
Briggs, Frederick Olson, Ed.	*Caribou*	45 Mill Street
Briggs, Ruth Cloudman, Eh.	*Augusta*	82 Main Street
Brody, Sidney Saul, Me.	*East Dedham, Mass.*	24 Pierce Street
Brown, Brooks, Jr., Sh.	*Augusta*	Λ X Λ House

Brown, Carl Raymond, Ee.	*Levant*	185 Pearl Street, Bangor
Brown, Leroy Clark, Dt.	*Farmington*	Farm Boarding House
Brown, Miriam Agnes, He.	*Norway*	Colvin Hall
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, Sh.	*Orono*	38 Pine Street
Burke, Mary Frances, L.A. & N.	*Bangor*	Water Works, State Street, Bangor
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.	*Bangor*	529 Main Street, Bangor
Candage, Byron Whitefield, Ce.	*Seal Harbor*	40 College Road
Carlisle, Robert, Es.	*Bangor*	Φ Γ Δ House
Carter, Elton Stewart, Sh.	*Mapleton*	Φ H K House
Carver, Clara Ernestine, He.	*Vinalhaven*	Home Management House
Chamberlain, Everett Bacon, Fy.	*Belgrade Lakes*	University Cabin
Champenois, Marion, Sy.	*Meridian, Miss.*	Balentine Hall
Chase, Faulkner Earlmont, Es.	*Bryant Pond*	B Θ Π House
Chase, Gordon Elms, Ba.	*Bryant Pond*	30 Main Street
Chase, Richard Holden, Ce.	*Sharon, Mass.*	B Θ Π House
Chase, Richard Raymond, Pa.	*Portland*	60 Forest Avenue
Chipman, Lester Duran, Ee.	*Mechanic Falls*	27 Wiley Street, Bangor
Christie, Alice Elizabeth, Hy. & Gt.	*Grand Lake Stream*	Colvin Hall
Clark, Arnold Hinckley, Eng.Ps.	*Liberty*	18 Oak Street
Clark, Eva Adeline, He.	*Orono*	505 College Road
Clement, John Caldwell, Es.	*Belfast*	Φ Γ Δ House
Coffin, Robert William, Me.	*Harrington*	395 College Road
Cohen, Milford Francis, Pa.	*Portland*	T E Φ House
Colbath, Burton Monroe, Ag.	*Westfield*	31 Hill Street
Colby, John Seagrave, Sy.	*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*	Balentine Hall
Cooper, James Gordon, III, Ed.	*Orono*	32 College Road
Cooper, Laurence Arthur, Jr., Ch.Eng.	*Auburn*	Λ X Λ House
Cote, Hermenegilde Paul, Es.	*Lewiston*	Θ X House
Cotton, George Benjamin, Ch.Eng.	*Auburn*	Φ Γ Δ House
Cowan, Frederick Walter, Fy.	*Portland*	Λ X Λ House
Craft, Laura Ursula, He.	*Bath*	Balentine Hall
Craig, John Stryker, Me.	*Bingham*	28 Main Street
Crandall, Quenton Kenwood, Sh.	*Presque Isle*	Φ H K House
Crane, Judson Burleigh, Me.	*Whiting*	80 Pine Street
Creamer, Mavis Lorraine, Eh.	*Calais*	Colvin Hall
Cromwell, Margaret Emma, Rl.	*Bangor*	98 Patten Street, Bangor
Crosby, Isabella, Eh.	*Dexter*	Balentine Hall
Crouse, Frederick Marshall, Dh.	*Crouseville*	Φ H K House
Culberson, Sara Louise, He.	*Easton*	Balentine Hall
Cummings, Robert Ambrose, Ms.	*Bryant Pond*	Σ N House
Cushing, Pauline Florence, Fr.	*Portland*	South Hall
Dalrymple, Stewart Willard, Me.	*Newton Centre, Mass*	Λ X Λ House
Day, Linwood McGuire, Eh.	*Westbrook*	86 Mill Street
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
Dexter, Franklin Dunbar, Eng.Ps.	*Martinsville, N. J.*	Φ Γ Δ House
Dinsmore, Joseph Smart, Jr., Ms.	*Bangor*	151 Court Street, Bangor
DiPersio, Robert, Ms.	*Meriden, Conn.*	85 Main Street
Doak, Camilla, He.	*Belfast*	Balentine Hall
Dole, Francis Henry, Ch.	*Bangor*	R. #2, Bangor
Dondis, Meredith Philip, Ba.	*Rockland*	T E Φ House
Dougherty, Eleanor Mary, He.	*Camden*	Colvin Hall
Dougherty, George Nowland, Hy. & Gt.	*Houlton*	K Σ House
Douglas, Earl Graeme, Me.	*Hull, Mass.*	29 Park Street
Drummond, Esther Hinckley, Eh.	*Arrowsic*	Colvin Hall
Duffey, Richard Vincent, Fy.	*East Orange, N. J.*	Λ X Λ House
Dumas, Paul Raymond, Fy.	*Rumford*	Δ T Δ House
Duplissa, George Allan, Jr., Ba.	*Old Town*	90 Veazie Street, Old Town

Dyer, John Reed, Me.	*Augusta*	38 Grove Street
Dyer, Wesley James, Ph.	*Norway*	Α Γ Ρ House
Earnshaw, John, Ee.	*Fall River, Mass.*	Σ Ν House
Edgecomb, Raymond Henry, Ch.Eng.	*Sebago Lake*	60 Forest Avenue
Edmunds, John Joseph, Ee.	*Mars Hill*	Φ Η Κ House
Ehrlenbach, Howard Lincoln, Fy.	*Tonawanda, N. Y.*	35 Grove Street
Ellis, George Hathaway, Es.	*Orono*	29 Park Street
Emery, Clarence Eugene, Ag.	*Westbrook*	Α Γ Ρ House
Emery, Elizabeth Mason, He.	*Bucksport*	Balentine Hall
Emery, Mark Peter, Ch.Eng.	*Bangor*	44 Boutelle Road, Bangor
Evans, Joanna Holmes, He.	*Wiscasset*	Balentine Hall
Fairchild, Thomas Leonard, Fm.	*Jay*	Φ Κ Σ House
Farmer, Percy Lyman, Jr., Ch.	*Peaks Island*	4 Summer Street
Farnham, Florence Julia, He.	*Lynn, Mass.*	Colvin Hall
Fenderson, Willard Edward, Zo.	*Calais*	202 H. H. Hall
Fifield, Alma Marguerite, Hy. & Gt.	*Brewer*	71 Parker Street, Brewer
Fillmore, Karl Alwyn, Py.	*Chamberlain*	University Cabin
Fisher, George Norton, Me.	*Wakefield, Mass,*	80 North Main Street
Friday, John Alexander, Fy.	*Schenectady, N. Y.*	Β Θ Π House
Frost, Albert Hyldon, Ba.	*Dexter*	Φ Μ Δ House
Frost, Howard Robinson, Zo.	*Westfield, Mass.*	Φ Γ Δ House
Gallagher, Keith Navarre, Agr. Eng.	*Limestone*	Δ Τ Δ House
Gammons, Elizabeth, Hy.	*East Greenwich, R. I.*	Balentine Hall
Gardner, Charles Sherer, Fy.	*Orono*	133 Main Street
Gardner, Horace Leonard, Me.	*Freeport, N. Y.*	Φ Μ Δ House
Gardner, Moffat Alexander Cowan, Ed.	*Portland*	45 Mill Street
Gardner, Roderic Adie, Ba.	*Cape Elizabeth*	Β Θ Π House
Garland, Winton Steward, Fy.	*Bangor*	63 Wiley Street, Bangor
Garrison, Ruth Jeannette, Fr.	*Madison*	Colvin Hall
Garvin, Isabelle, He.	*Alfred*	Balentine Hall
Genge, Clarence Kitchener, Me.	*Arlington, Mass.*	H. H. Hall
Gilman, Arnold Robert, An.	*Forest Hills, N. Y.*	35 Grove Street
Gilman, George Dudley, Fy.	*North Abington, Mass.*	Δ Τ Δ House
Gleason, Beatrice Helen, Eh.	*South Portland*	Colvin Hall
Godwin, Halsted Buel, Dr.	*Orono*	106 North Main Street

Goodchild, Donald Wood, Ch.Eng.	*Saco*	Φ K Σ House
Goodrich, Sidney Joseph, Me.	*Gorham*	Λ X Λ House
Goodwin, Donald Watson, Hy.	*Alfred*	36 Grove Street
Goodwin, Robert Burrill, Ee.	*Brewer*	119 Parker Street, Brewer
Goos, Phillip, Pa.	*Bangor*	87 Birch Street, Bangor
Gosline, Walter Wadsworth, Ba.	*Gardiner*	Δ T Δ House
Grant, Elizabeth Payson, He.	*Portland*	Balentine Hall
Grant, George Crandlemire, Py.	*Waterville*	306 Oak 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
Hall, Albert Ernest, Jr., Wc.	*Merchantville, N. Y.*	395 College Road
Hall, Charles Alfred, Zo.	*Castine*	Σ A E House
Hamilton, James Oliver, Me.	*Waterboro*	Φ M Δ House
Hamm, Harold Isaiah, Ba.	*Bangor*	65 Kenduskeag Avenue, Bangor
Hansen, Alma Mabel, Eh.	*South Portland*	Balentine Hall
Hanson, Fred Crowell, Me.	*Bangor*	396 French Street, Bangor
Harlow, Laurence Joseph, Pa.	*Barre Plains, Mass.*	Δ T Δ House
Harris, James William, Ba.	*Winchester, Mass.*	302 Oak Hall
Hartwell, James Haywood, Ce.	*Trenton, N. J.*	7 Summer Street
Hatchard, Donald Gordon, Ee.	*Tenafly, N. J.*	6 North Main Street
Herbert, Pauline Clarice, Ed.	*Bangor*	491 Ohio Street, Bangor
Herrick, Robert Chandler, Ed.	*Presque Isle*	33 Spencer Lane
Hill, Albert Edwin, Ed.	*Warren*	Kell Street
Hill, Virginia, Eh.	*Wilmington, Mass.*	Balentine Hall
Hiller, Robert Frederick, Fy.	*Foxboro, Mass.*	25 Myrtle Street
Hoctor, John Michael, Ed.	*Old Orchard Beach*	Σ N House
Hodgdon, Kenneth Willis, Wc.	*Anson*	University Cabin
Holden, Miriam Elizabeth, He.	*Portland*	15 Pierce Street
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.*	Colvin Hall
Hopkins, Emily Marjorie, Eh.	*Waterville*	Balentine Hall
Hopkins, Richard Samuel, Me.	*Bucksport*	Bucksport
Horne, Frances Taylor, Py.	*Portland*	South Hall

Howe, Charles Leonard, An.	*Kingfield*	25 Grove Street
Howe, Robert Frank, Ag.	*Framingham, Mass.*	35 Oak Street
Howe, Virginia Mae, Dr.	*Union*	20 Forest Avenue
Howes, Cecil Edgar, Ph.	*Patten*	52 Blackstone Street, Bangor
Hoyt, John Folsom, Ce.	*Fort Fairfield*	Φ H K House
Huey, Homer Sanford, Sy.	*Bangor*	113 Pine Street, Bangor
Humphries, Angus Edward, Fy.	*Perry*	56 Park Street
Hunt, Norman Earl, Fm.	*Clinton*	Farm Boarding House
Hutcheon, James Lewis, Ag.	*Presque Isle*	Λ T Ω House
Hutchins, Elbridge Leland, Ed.	*Penobscot*	Stillwater
Hutchins, Martha Elizabeth, Zo.	*Kingfield*	Colvin Hall
Ingalls, Earle Lewis, Fm.	*Portland*	Σ A E House
Ingalls, Katherine Virginia, Ed.	*Ellsworth*	58 Park Street
Ingham, Joseph Morton, Jn.	*Concord, N. H.*	B Θ Π House
Irvine, Robert Mayes, Fy.	*Framingham, Mass.*	Φ Γ Δ House
Jackson, Floyd Frederick, Fm.	*Rumford*	Φ K Σ House
Jackson, Robert Allan, Ba.	*New Bedford, Mass.*	7 Summer Street
Jackson, Stephen Hamilton, Fy.	*Union, N. J.*	27 Myrtle Street
Jewell, Duncan Henry, Fm.	*Orono*	34 Forest Avenue
Jewett, Virginia Choate, He.	*Westport*	Colvin Hall
Johnson, Glenna Mae, He.	*Ashville*	Colvin Hall
Johnson, Vernon Elbert, Fy.	*Milford*	Milford
Jones, Margaret Louise, He.	*Orono*	164 College Road
Jordan, Harold John, Me.	*Augusta*	Φ K Σ House
Kelley, Arthur Louis, Ed.	*St. Francis*	Σ N House
Kelley, Lawrence Babbitt, Pa.	*Bellows Falls, Vt.*	Φ M Δ House
Kennedy, Clair Arthur, Zo.	*South Brooksville*	64 Penobscot Street
Ketchum, Frank Wentworth, Ag.	*Houlton*	25 Grove Street
Kilas, Joseph Lawrence, Pa.	*Rumford*	Λ X A House
Kimball, Everett Augustus, Ba.	*Brewer*	182 Wilson Street, Brewer
Kinghorn, Robert Colin, Fy.	*Fitchburg, Mass.*	Φ M Δ House
Kingsbury, Walton Cameron, Wc.	*Boonville, N. Y.*	95 Mill Street
Kleiner, Borris, Gt. & Es.	*Bangor*	348 State Street, Bangor
Knapp, Phyllis Lucy, He.	*Bradley*	Bradley
Knight, Mervin Taber, Es.	*Newton Centre, Mass.*	K Σ House

Knights, Maxine Sherwin, He.	*Brewer*	322 South Main Street, Brewer
Kozicky, Edward Louis, Wc.	*Eatontown, N. J.*	Stillwater
Ladd, Leon Fairclough, Ee.	*Lewiston*	Σ N House
Lapham, Daniel, Ba.	*West Concord, Mass.*	29 Forest Avenue
Larsson, Robert Dustin, Ms.	*Gloucester, Mass.*	38 Pine Street
Leining, Charles Frederick, Hy. & Gt.	*Mt. Vernon, N. Y.*	Σ A E House
Lewis, John, Jr., Ch.Eng.	*Skowhegan*	Φ K Σ House
Libby, Clifford White, Fy.	*Portland*	35 Grove Street
Libby, Frederick Andrew, Dr.	*Orono*	51 North Main Street
Linnell, Ruth Howe, Eh.	*Pembroke*	Balentine Hall
Locsin, Manuel Vicente, Pa.	*Victorias, Occ. Negros, P. I.*	85 Main Street
London, Mansfield Gray, Ag.	*Houlton*	A Γ P House
Look, Eleanor Carolyn, Sh.	*Rockland*	Colvin Hall
Lord, Nathaniel Nelson, Zo.	*Wells*	Σ A E House
Loudon, Alexander Duncan, Py.	*Brownville*	26 Church Street, Brownville
Lovejoy, Robert John, Zo.	*Farmington*	Σ A E House
Lundberg, Robert Nelson, Zo.	*Gloucester, Mass.*	Φ H K House
Lush, Earl Roy, Ed.	*Oakland*	25 Grove Street
McAlary, Elizabeth Mary, He.	*Rockland*	Balentine Hall
McAllister, Joan, By.	*Gorham*	Colvin Hall
McCrum, Don Lemuel, Fm.	*Mars Hill*	Φ H K House
McDonald, Robert Skillings, Eng.Ps.	*Portland*	Θ X House
McDonough, Jean Ellin, Zo.	*Portland*	Colvin Hall
MacEdward, James Angus, Me.	*Union*	19 First Street, Bangor
MacGregor, Walter Newell, Ee.	*Eastport*	Φ M Δ House
McIntire, Edith Blanche, Eh.	*Dixfield*	South Hall
McKay, Gordon Bush, Me.	*Old Town*	64 Bradbury Street, Old Town
McPheters, Robert Douglas, Ch.Eng.	*Bar Harbor*	25 Grove Street
Mack, Betty C., Hy. & Gt.	*Bangor*	R.F.D. #7, Bangor
Mann, Alfred Alroy, Ch.Eng.	*Raymond*	Φ K Σ House
Marriner, Norman Earle, Ms.	*Camden*	212 H. H. Hall
Marshall, James Robert, Ee.	*Farmington*	56 North Main Street
Martin, Anne McManus, Ed.	*Eagle Lake*	54 Pine Street
Millay, Harold Sidney, Ee.	*Richmond*	Φ M Δ House

Miller, Marion Flint, He.	*Thomaston*	Colvin Hall
Mitchell, Shirley Martha, He.	*Fairfield*	Balentine Hall
Monohon, Paul Jordan, Hy. & Gt.	*Maplewood, N. J.*	Φ K Σ House
Mooers, Robert Douglas, Ba.	*Orono*	45 Mill Street
Morris, Robert Irving, Zo.	*Bangor*	45 Maple Street, Bangor
Morse, Carroll Edwin, Me.	*Bath*	28 Main Street
Mosher, Mary Elizabeth, He.	*Bangor*	102 Kenduskeag Avenue, Bangor
Mosher, Paul Newell, Dh.	*Dryden*	88 Park Street
Moulton, Virginia, Py.	*Bangor*	Balentine Hall
Murphy, Hugh Jerome, Ag.	*Fort Fairfield*	Σ N House
Murray, George Leslie, Ed.	*Newport*	Λ T Ω House
Mutty, Edwin Louis, Ba.	*Bangor*	168 Grove Street, Bangor
Muzroll, Lawrence Joseph, Zo.	*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, Thomas Henry, Ee.	*Harrington*	B Θ Π House
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
Olsson, Henry Richard, Ch.	*Lynnfield Center, Mass.*	Σ N House
Oppenheim, Edward Elliot, Gt.	*Bangor*	226 Hammond Street, Bangor
Orff, Barbara Alice, He.	*Rockland*	Colvin Hall
Osgood, Burt Sterling, Jr., Ba.	*Orono*	60 Park Street
Packard, Ruth Gray, Rl.	*Orono*	15 Mill Street
Parsons, Charles Boone, Fm.	*Presque Isle*	Λ T Ω House
Parsons, William Frazier, Eng.Ps.	*Skowhegan*	Σ X House
Paul, Roger Fernald, Fy.	*York Beach*	Λ X A House
Payson, Carlton Burkett, Ag.	*Union*	College Road, Star Route
Peaslee, Elizabeth Frances, He.	*Concord, N. H.*	Balentine Hall
Peavey, Harry Clothey, Jr., Me.	*Webster Groves, Mo.*	208 French Street, Bangor

Peirce, Jean Margaret, He.	*Bangor*	205 Elm Street, Bangor
Pennell, John Dunning, Jr., Ch.Eng.	*Portland*	34 Pine Street
Perkins, Charlene Mary, Sy.	*Madison*	Balentine Hall
Perkins, Howard Roscoe, Ce.	*Orono*	80 North Main Street
Perry, Clifford Given, Me.	*Bowdoinham*	88 Park Street
Perry, Orin Francis, III, Gm.	*Dobbs Ferry, N. Y.*	K Σ House
Philbrook, Constance Fanny, He.	*Shelburne, N. H.*	Balentine Hall
Philbrook, Margaret Elizabeth, Hy.	*Tenafly, N. J.*	Balentine Hall
Pierce, Richard Hurd, Hy.	*Leominster, Mass.*	Σ A E House
Pineo, Priscilla, L.A. & N.	*Milo*	Colvin Hall
Pinkham, Ernestine King, Rl.	*Portland*	Colvin Hall
Piper, Allan Eugene, Bt. & En.	*Troy*	A Γ P House
Piper, Richard Simmons, Ch.	*Brewer*	230 Center Street, Brewer
Plummer, Richard Frank, Ch.Eng.	*Lisbon*	A T Ω House
Pomeroy, Yvonne Anna, Rl.	*Hampden Highlands*	Hampden Highlands
Pratt, Virgil Stewart, Wc.	*Stillwater*	Bennoch Road, Stillwater
Preble, Claralyn Owen, Sy.	*Enfield*	10 Oak Street, Old Town
Preble, Clayton Hinckley, Ec.	*Addison*	395 College Road
Pullen, Winston Eugene, Fm.	*Monson*	192 Webster Avenue, Bangor
Ramsay, Joyce, Ed.	*Fort Kent*	87 Main Street
Ramsdell, Richard Theodore, Fy.	*Milton, Mass.*	A Γ P House
Rand, Emily Allen, Ms.	*Bangor*	14 Frances Street, Bangor
Reed, Ruth Helena, He.	*Madawaska*	Colvin Hall
Reed, Walter Sherwood, Jr., Gt.	*Boothbay Harbor*	Δ T Δ House
Reid, Elizabeth Stanley, Py.	*Bangor*	Balentine Hall
Reilly, James Richard, Wc.	*Tottenville, S. I., N. Y.*	Σ N House
Reitz, John Addison, Ce.	*Waltham, Mass.*	Σ X House
Rheinlander, Harold Falle, Zo.	*Van Buren*	A T Ω House
Riddle, Oscar Walter, Me.	*Rangeley*	Σ A E House
Riddle, William James, Ch.Eng.	*Bridgton*	Σ A E House
Riley, Pauline Frances, Sy.	*Biddeford*	Balentine Hall
Risman, George Carl, Zo.	*Roxbury, Mass.*	14 Park Street
Roach, Harry Quinton, Fm.	*Smyrna Mills*	Σ N House
Robertson, Frank O'Neil, Jr., Zo.	*Bethel*	A T Ω House
Robertson, Kenneth Noble, Me.	*Auburn*	302 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*	Balentine Hall
Rowe, Hilda Barton, Py.	*Bangor*	Balentine Hall
Rubin, Sylvia Anna, Eh.	*Bangor*	312 French Street, Bangor
Runion, Leona May, Sh.	*Orono*	15 Pond Street
Sadler, Rudolph Charles Albert, Ee.	*Limerick*	Σ X House
Savage, Norris Allen, Ed.	*Bar Harbor*	25 Grove Street
Sawyer, Frances Lenora, He.	*Waterville*	Balentine Hall
Scanlin, Merlin Thomas, Fm.	*Weston*	University Cabin
Serota, Jacob, Fy.	*Portland*	35 Grove Street
Sewell, Edgar Fuller, Ch.	*Bangor*	117 Grove Street, Bangor
Shackelford, Charles Henry, By.	*South Hamilton, Mass.*	Σ N House
Shaw, Delmar Daniel, Me.	*Scarboro*	Φ Γ Δ House
Shearer, Frank Price, Wc.	*Pennington, N. J.*	K Σ House
Shepard, LeRoy Grenville, Me.	*Deer Isle*	Φ K Σ House
Sherman, Charles Merrill, Ba.	*Pembroke, Mass.*	Δ T Δ House
Simpson, Eloise Pratt, Ms.	*Attleboro, Mass.*	Colvin Hall
Sirles, Dorothy Hartz, Ed.	*Lubec*	45 Silk Street, Brewer
Skoufis, Peter John, Hy. & Gt.	*Bangor*	18 Lincoln Street, Bangor
Smart, Madeline Marie, He.	*Houlton*	Balentine Hall
Smart, Phyllis Lillian, Ed.	*LaGrange*	222 Elm Street, Bangor
Smith, Charles Byron, Jr., Ph.	*Orono*	39 Park Street
Smith, Julia Alice, He.	*Limerick*	South Hall
Smith, Owen Halbert, Ag.	*Presque Isle*	Φ H K House
Smith, Robert Butman, Ba.	*South Portland*	Stillwater
Smith, Sherman King, Ce.	*Gardiner*	26 Island Avenue
Smith, Thomas Joseph, Jr., Ch.Eng.	*West Haven, Conn.*	Δ T Δ House
Snow, Elayne Marguerite, Ed.	*Caribou*	The Elms
Sobel, Isadore Theodore, Pa.	*New York, N. Y.*	T E Φ House
Somes, John William, Ba.	*Mt. Desert*	Σ N House
Staples, Grant Dockendorff, Ce.	*Whitefield*	26 Island Avenue
Staples, Ormond Adolph, Fy.	*Camden*	25 Myrtle Street
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*	26 Davis Street, Old Town
St. Germain, William Albert, Me.	*Greenville*	Σ A E House
Stillings, Alice Gertrude, Hy.	*South Portland*	The Elms
Stisulis, Walter Lewis, Ce.	*Mexico*	412 H. H. Hall

St. Lawrence, Mitchell Bradley, Fm.	*Orono*	27 Myrtle Street
Storer, Allan Philbrick, By.	*Freedom*	Δ T Δ House
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
Tackaberry, Robert Bernard, Eng.Ps.	*Old Town*	28 Davis Street, Old Town
Talbot, James Edward, Fy.	*Woodland*	A T Ω House
Tarbell, Allan Brown, Ba.	*Smyrna Mills*	B Θ Π House
Tardoni, Daniel James, Ch.Eng.	*Sayre, Pa.*	Stillwater
Thompson, Esther LaDora, Rl.	*Biddeford*	Balentine Hall
Thompson, Harold Everett, Dt.	*Leominster, Mass.*	Φ M Δ House
Towle, Ada Melissa, Ed.	*Newfield*	5 Park Lane
Towle, Myron John, Fm.	*Fort Fairfield*	Φ H K House
Townsend, Paul Alexander, Ms.	*Blue Hill*	Θ X House
Tracy, Frederick Foster, Me.	*Northeast Harbor*	Σ A E House
Tracy, Samuel Edwin, Jr., Sh.	*Northeast Harbor*	Σ A E House
Treat, George Currier, Me.	*Bangor*	66 Kenduskeag Avenue, Bangor
Troop, Benjamin Sabin, Fy.	*West Hartford, Conn.*	Φ H K House
Trott, Margaret Elizabeth, Hy.	*Bath*	Balentine Hall
Trowbridge, John Perrin, Ce.	*Pomfret Center, Conn.*	A X A House
True, Frank Asia, An.	*Springfield*	Farm Boarding House
Tucker, Herbert Walter, Fy.	*Cherryfield*	395 College Road
Tufts, Christine Evelyn, Sy.	*Kingfield*	Balentine Hall
Tweedie, James Kerr, Hy.	*Lamoine*	Σ A E House
Utterback, John Dudley, Ge.	*Bangor*	Φ Γ Δ House
Valliere, Raymond Andrew, Hy.	*South Berwick*	Δ T Δ House
Verrill, Anna Elizabeth, He.	*Westbrook*	Colvin Hall
Volkman, Wallace Harry, Ee.	*West Somerville, Mass.*	6 Mill Street
Walker, Alexander, Jr., Fy.	*Rochester, N. Y.*	K Σ House
Walker, Neal Harvey, Ag.	*Wiscasset*	A Γ P House
Wall, Robert Hanley, Ee.	*Wells*	41 Mill Street
Wallace, Henry William, Me.	*Freeport, N. Y.*	Φ M Δ House

Walsh, Agnes Ann, Rl.	*South Portland*	Balentine Hall
Ward, Catherine Margaret, Fr.	*Portland*	The Elms
Warren, David Wyman, Jr., Rl.	*Pripet*	Φ Γ Δ House
Webster, June Anna, He.	*Bangor*	435 Union Street, Bangor
Webster, Shirley Gwynne, Me.	*Lincoln*	25 Grove Street
West, Dora Brown, Py.	*Lexington, Mass.*	Balentine Hall
Weston, Donald Williams, Me.	*Madison*	College Road, Star Route
Weymouth, Flora Gwendolyn, L.A. & N.	*Howland*	Colvin Hall
Wheeler, Francis Adams, Me.	*Auburn*	Α Τ Ω House
White, Charlotte Zeluma, Eh.	*Bowdoinham*	South Hall
White, Ruth Elizabeth, Eh.	*Bangor*	Balentine Hall
Whitehouse, Marjorie Marion, Rl.	*Augusta*	South Hall
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, Star Route
Wilkinson, Margaret Frances, Eh.	*Orono*	25 Grove Street
Willard, Dorothy Arline, Ed.	*Presque Isle*	The Elms
Willets, Robert Taber, Fy.	*Roslyn, N. Y.*	Κ Σ House
Willey, Roslyn Bradford, Ag.	*Orono*	88 Park Street
Williams, Frank Raymond, Es.	*Mechanic Falls*	Φ Γ Δ House
Williams, James Oliver, Ch.Eng.	*Ogunquit*	26 Peters Street
Wilson, Adam Winslow, Fm.	*Portland*	Φ Κ Σ House
Wing, Dorothy Hopkins, He.	*Bath*	Colvin Hall
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*	Σ Α Ε House
Wormwood, Helen Bradbury, Hy.	*Portland*	Balentine Hall
Young, Barbara Alice, Ms.	*Calais*	Colvin Hall
Zieno, Angelo Salvatore, Fy.	*Norwich, N. Y.*	14 Park Street
Zitaner, Morris, Zo.	*South Brewer*	R.F.D. #8, South Brewer

SOPHOMORES

Abbott, Susan Dukeshire, He.	*Union*	South Hall
Adams, David Archibald, Ch.Eng.	*South Brewer*	A X A House
Adams, Earl Castner, Arts	*Portland*	University Cabin
Adasko, Miriam Revilla, Arts	*Gloucester, Mass.*	Balentine Hall
Albert, Joseph James, Arts	*Bangor*	96 Garland Street, Bangor
Alexander, Helen Audrey, Arts	*Saco*	Balentine Hall
Alpert, Ada Fiana, He	*Bangor*	137 State Street, Bangor
Anderson, John Rudolph Me.	*Livermore Falls*	Φ Γ Δ House
Andrews, Frances Christine, He.	*Portland*	Balentine Hall
Andrews, Francis Swain, Arts	*Norway*	Σ X House
Ansell, Elizabeth Clark, Arts	*Dexter*	The Elms
Arbo, Edward Payson, Arts	*Brownville*	Θ X House
Armitage, Walter Howard, Me.	*Methuen, Mass.*	395 College Road
Ashman, Shirley Gladys, Arts	*Augusta*	Balentine Hall
Atwood, Florence Caro, He.	*Brunswick*	Balentine Hall
Axtell, Arthur Gardner, Wc.	*Saugerties, N. Y.*	Φ H K House
Bachman, Gerald William, Ch.Eng.	*Augusta*	A X A House
Backer, Albert David, Dh.	*Brooklyn, N. Y.*	43 Main Street
Bacon, Henry Ferdinand, Ce.	*Oakland*	25 Grove Street
Banks, Constance Jean, He.	*Bangor*	The Elms
Banton, Madeliene Lois, He.	*Newport*	The Elms
Bardo, Clinton Lloyd, Fy.	*Providence, R. I.*	A X A House
Barker, Elizabeth Jane, Arts.	*Bangor*	99 Sanford Street, Bangor
Barrows, Edward Pomeroy, Arts	*Augusta*	B Θ Π House
Barrows, John Clifford, Eng.Ps.	*Glen Ridge, N. J.*	B Θ Π House
Bartlett, Alice Janet, Arts	*Orono*	74 North Main Street
Bean, Bryant Chapman, Arts	*Bryant Pond*	A X A House
Beaton, Clifford Merrill, Ch.Eng.	*Bangor*	Bucksport
Beaton, Donald Edgar, Arts	*Bangor*	218 Pine Street, Bangor
Beaton, Robert John, Wc.	*Stoughton, Mass.*	Σ N House
Beckmann, William Richard, Wc.	*Brooklyn, N. Y.*	Σ A E House
Beegel, Paul Milton, Jr., Arts	*Bangor*	178 State Street, Bangor
Belknap, Martha Chapman, Arts	*Damariscotta*	87 Main Street
Benjamin, Charles Smith, Jr., Arts	*Waldwick, N. J.*	Σ X House
Berg, Shirley Belle, Arts	*Bangor*	56 Fern Street, Bangor
Berry, Jeannette Elizabeth, Arts	*Houlton*	Colvin Hall
Bickford, Frances Elizabeth, He.	*Madison*	The Elms
Bigelson, Arthur, Ee.	*Bangor*	142 York Street, Bangor

Billings, Percy Glenwood, Jr., Agr.Eng.	*Bangor*	20 Sixth Street, Bangor
Blake, Clayton Purington, Me.	*Portland*	25 Grove Street
Blake, Clifford Arnold, Fm.	*Cornish*	Φ M Δ House
Blake, Cora Josephine, He.	*LaGrange*	40 College Road
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*	Φ H K House
Blethen, John, Jr., Arts	*Rockland*	88 Park Street
Bonacorso, Edward Samuel, Arts	*Everett, Mass.*	Σ X House
Bonney, Alton Grover, Jr., Eng.Ps.	*Portland*	University Cabin
Bower, John Allen, Me.	*Auburn*	Δ T Δ House
Bowers, Durant, Jr., Ee.	*Bangor*	216 Pine Street, Bangor
Bowser, Robert Vance, Ee.	*Reading, Mass.*	Φ K Σ House
Boyd, Arthur, Fm.	*Milford*	Milford
Bradeen, Doris Mae, He.	*Millinocket*	Balentine Hall
Brandt, Robert Alfred, Ph.	*Brookline, Mass.*	83 Main Street
Brewer, Dorothy Frances, He.	*Bar Harbor*	Balentine Hall
Brewster, Frank Eugene, Ch.Eng.	*South Portland*	Φ H K House
Brink, Robert Morris, Ee.	*Cape Elizabeth*	380 College Road
Brown, Donald Vaughn, Ch.Eng.	*Fairfield*	Σ N House
Brown, Emmons Pray, Ch.Eng.	*Mt. Desert*	Θ X House
Brown, Harvey Weston, Arts	*Mt. Desert*	29 Forest Avenue
Browne, Robert Irving, Fm.	*Bethel*	H. H. Hall
Burger, Francis William, Ch.Eng.	*Lynn, Mass.*	B Θ Π House
Burke, John Edward, Me.	*Bangor*	State Street, Bangor
Burleigh, Sarah Elizabeth, Arts	*Augusta*	Balentine Hall
Burnett, John McGregor, Jr., Ee.	*Skowhegan*	384 College Road
Burnham, Reuben Sylvester, Me.	*West Scarboro*	K Σ House
Burpee, Frederick Todd, Wc.	*Orono*	Bennoch Street
Burpee, Howard Lemuel, Ht.	*Orono*	Bennoch Street
Bushnell, Cornelius Huntington, Jr. Ch.Eng.	*Whitefield*	Θ X House
Butler, Wendell Taylor, Ch.Eng.	*Springvale*	23 Spencer Lane
Butterfield, Wilfred Irving, Jr., Arts	*Bangor*	147 Maple Street, Bangor
Carter, Genevieve Elizabeth, He.	*Ellsworth*	South Hall
Carter, John Merrill, Fm.	*Etna*	Φ M Δ House
Carter, Leland Franklin, Ce.	*Freeport*	Σ N House
Chadbourne, Ernest Donald, Fm.	*East Baldwin*	Λ T Ω House

Chandler, John Everett, Arts	*Winthrop*	17 Margin Street
Chase, George Oscar, Arts	*Millinocket*	Φ K Σ House
Chick, Richard Loring, Fy.	*South Berwick*	Φ H K House
Christensen, William Mathias, Jr., Me.	*Auburn*	Λ X Λ House
Church, James Elwood, Jr., Arts	*Gardiner*	Δ T Δ House
Chute, Robert Eugene, Me.	*Norway*	University Cabin
Clark, Alton Willis, Arts	*Kennebunk*	Φ H K House
Clark, William Bradbury, Ee.	*Lewiston*	Σ A E House
Cleverly, Muriel Beatrice, Arts	*Hull, Mass.*	The Elms
Cliff, Margaret York, Arts	*Presque Isle*	Balentine Hall
Coffin, Richard Hale, Ee.	*Bangor*	25 West Street, Bangor
Cohen, Jozef Bertram, Arts	*Roxbury, Mass.*	12 Pleasant Street
Colpitts, Bernard Eugene, Me.	*Saco*	A T Ω House
Conti, Rudolph Francis, Arts	*Arlington, Mass.*	K Σ House
Cope, Harry, Ch.Eng.	*Portland*	242 Hancock Street, Bangor
Cousins, Florence Evelyn, Arts	*Old Town*	94 North Fourth Street, Old Town
Cowie, Douglas Brann, Pa.	*Rockville Centre, N. Y.*	370 College Road
Cowin, Mary Alexia, He.	*Orono*	8 Elm Street
Cox, William Sylvester, Me.	*Orono*	3 Brook Street
Cranch, Richard Christopher, Fy.	*New Rochelle, N. Y.*	Φ K Σ House
Crapo, Arthur Chester, Ee.	*North Dartmouth, Mass.*	Φ H K House
Crocker, Guy Joseph, Ch.Eng.	*Vanceboro*	25 Grove Street
Crossland, Lloyd Byron, Ge.	*Mexico*	University Cabin
Crowley, Nathaniel Joseph, Arts	*Dover-Foxcroft*	H. H. Hall
Cummings, Vivian Eulalie, He.	*LaGrange*	24 Oak Street
Cunningham, George Barker, Arts	*Old Town*	36 Veazie Street, Old Town
Curtis, Boyd Alvin, Ag.	*Easton*	A Γ P House
Curtis, Raymond Wilson, Jr., Arts	*Marblehead, Mass.*	Δ T Δ House
Cushman, George Bernard, Dt.	*Bryant Pond*	88 Park Street
Cyr, Joseph Wilfrid, Ag.	*Lille*	21 A Mill Street
Dale, Ralph Orlando, Jr., Eng.Ps.	*Bath*	Φ Γ Δ House
Dalrymple, Robert Anthony, Arts	*Framingham, Mass.*	Φ Γ Δ House
Danforth, Paul Dow, Me.	*Old Town*	152 Middle Street, Old Town

Dangler, Edgar William, Wc.	*Brooklyn, N. Y.*	50 Pine Street
Davis, Carl Forrest, Arts	*Milo*	1 Mill Street Lane
Davis, Carrol Dwight, Ee.	*Solon*	88 Park Street
Davis, Charles Ralph, Me.	*Old Town*	11 North Fourth Street, Old Town
Davis, Donald Hasbrouck, Ch.Eng.	*Longmeadow, Mass.*	Φ K Σ House
Davis, Erna Eliza, He.	*Bucksport*	Balentine Hall
Davis, Robert Thomas, Arts	*Old Town*	202 North Brunswick Street, Old Town
Day, McClure, An.	*Damariscotta*	Δ T Δ House
Day, Richard Beston, An.	*Damariscotta*	Δ T Δ House
Day, Robert Hartson, Dh.	*Bryant Pond*	88 Park Street
deBarros, Richard John, Bt. & En.	*Nantucket Island, Mass.*	87 Park Street
Deering, Harry Lincoln, Ee.	*Bath*	59 Park Street
Deering, Robert Bowman, Ht.	*Orono*	160 College Road
Denesuk, Nicholas, Fy.	*Peabody, Mass.*	23 Spencer Lane
Dennis, Eleanor Blanche, Arts	*Passadumkeag*	South Hall
deRoth, Gerardus Cabble, Fy.	*Lynbrook, L. I., N. Y.*	University Cabin
DeShon, Howard Clifford, Ee.	*Machias*	Φ H K House
Dickens, Thomas Daniel, Wc.	*Camden*	395 College Road
Dillon, John Michael, Arts	*Naugatuck, Conn.*	Σ X House
Dimitre, Margaret Lorraine, Arts	*Calais*	Balentine Hall
Dimmer, John Patrick, Jr., Ge.	*Portland*	56 North Main Street
Dixon, Elinor Louise, Arts	*South Berwick*	Balentine Hall
Dobrow, Jordan, Arts	*Chelsea, Mass.*	T E Φ House
Dodge, David Thaxter, An.	*Bangor*	Ohio Street, Bangor
Dole, Arthur Sidney, Jr., Arts	*Bangor*	R. #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*	65 Grant Street, Bangor
Doyle, Margaret Eleineen, Arts	*Caribou*	Balentine Hall
Duggan, Lloyd Bernard, Arts	*Kennebunk*	26 Peters Street
Duncan, Carl Porter, Arts	*Presque Isle*	Φ H K House
Dunning, Clement Stevens, An.	*North Harpswell*	88 Park Street

Dyer, Robert Hall, Wc.	*Turner*	College Road, Star Route
Dyer, Samuel, Jr., Me.	*Framingham, Mass.*	Λ X Λ House
Eastman, Ruth Elizabeth, Arts	*Augusta*	The Elms
Edgecomb, Wilbur Robert, Me.	*Rumford*	K Σ House
Edmunds, Edward Hawksley, Arts	*Mars Hill*	85 Main Street
Ehrenfried, Paul, Arts	*Lewiston*	Φ K Σ House
Eldridge, John William, Ch.Eng.	*Orrington*	Φ Γ Δ House
Elliott, Gerald Edward, Agr.Eng.	*Fort Fairfield*	Φ H K House
Ellis, Cutler Lynwood, Dh.	*Rangeley*	102 Mill Street
Elwell, Ralph Horatio, An.	*Brooks*	25 Grove Street
Emery, Lawrence Woodford, Arts	*Reading, Mass.*	Σ X House
Emmons, Barbara Wentworth, Arts	*Worcester, Mass.*	The Elms
Evans, William Henry, Ch.Eng.	*Manhasset, L. I., N. Y.*	K Σ House
Fallon, Christopher, Arts	*Augusta*	Φ Γ Δ House
Farnham, Barbara May, Arts	*Bangor*	Ohio Street, Bangor
Fassett, Carol Lincoln, Arts	*Cambridge, Mass.*	The Elms
Feinberg, Robert Malcolm, Arts	*Portland*	T E Φ House
Field, Kenneth Adelbert, Me.	*Hampden*	Hampden
Fielding, Richard Norman, Arts	*Malden, Mass.*	K Σ House
Findlen, Herbert, Ag.	*Fort Fairfield*	Λ Γ P House
Fink, John Edward, Wc.	*Brooklyn, N. Y.*	Σ A E House
Fish, Warren Hamlin, Arts	*Concord, Mass.*	Σ A E House
FitzPatrick, John Dowd, Arts	*Marblehead, Mass.*	Σ A E House
Fortier, Robert Francis, Arts	*Orono*	43 Broadway
Foster, John Warren, Fy.	*Huntington Woods, Mich.*	Stillwater
Foster, Orsan Junior, Me.	*Baring*	56 North Main Street
Francis, Wallace Robert, Me.	*Darien, Conn.*	Σ A E House
Franz, Richard Oscar, Fy.	*Thornwood, N. Y.*	6 Mill Street
Freedman, Stanley Philip, Ch.Eng.	*Portland*	12 Park Street
French, John Scates, Arts	*Pleasantville, N. Y.*	85 Main Street
French, Marjorie Violet, He.	*Winthrop*	Balentine Hall
French, Maynard Gardner, Arts	*Livermore Falls*	Λ X Λ House
French, Robert Joseph, Arts	*Guilford*	Σ X House
Gabrielian, Henry, Me.	*Worcester, Mass.*	60 Forest Avenue
Galentine, Paul Guy, Ee.	*Portland*	B Θ Π House
Gallant, Francis Louis, Me.	*Bangor*	34 East Summer Street, Bangor

Gannon, Henry Francis, Fy.	*New Rochelle, N. Y.*	395 College Road
Garfinkle, Harold, Arts	*Mattapan, Mass.*	Τ Ε Φ House
Garsoe, William Joseph, Ph.	*Portland*	Κ Σ House
Gatcomb, Morrill Ashley, Arts	*East Machias*	85 Main Street
Gay, Raymond Francis, Jr., Me.	*Stony Creek, Conn.*	Λ Χ Α House
Geary, Edward Joseph, Arts	*Lewiston*	Δ Τ Δ House
Gilman, Dorothy Janet, He.	*Porter*	68½ Main Street
Gilman, Manuel Alan, Ph.	*Forest Hills, N. Y.*	35 Grove Street
Gilman, William Pattangall, Ph.	*Augusta*	Β Θ Π House
Ginsburg, Saul, Ge.	*Portland*	12 Park Street
Gleason, Eleanor Lou, He.	*Union*	Balentine Hall
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, Arts	*Lynn, Mass.*	15 Middle Street
Goldsmith, Alvin Robbins, Eng.Ps.	*Bangor*	6 Palm Street, Bangor
Goodwin, Jean Elizabeth, He.	*Caribou*	Balentine Hall
Gordon, Hyma Alton, Fm.	*Lincoln Center*	25 Grove Street
Gorman, John Carroll, Fy.	*Wellesley, Mass.*	Σ Χ House
Goulette, Gerard Alphonse, Arts	*Dexter*	395 College Road
Gowen, Barbara Muirhead, Arts	*Saco*	Colvin Hall
Graham, Benjamin Franklin, Fy.	*Milton, Mass.*	Φ Κ Σ House
Graves, Richard Stayner, Me.	*Chebeague Island*	Δ Τ Δ House
Greenleaf, Laurie Jones, Eng.Ps.	*Auburn*	Φ Γ Δ House
Griffee, Donald Gordon, Me.	*Orono*	55 Bennoch Street
Guard, Charles Atherton, Fm.	*Honolulu, T. H.*	Φ Μ Δ House
Haffner, Rudolph Eric, Arts	*Portland*	3 Park Street
Hale, Titus Stuart, Me.	*Portland, Conn.*	Φ Κ Σ House
Hall, Elden David, Jr., Ce.	*Farmington*	Β Θ Π House
Hamilton, Violet Mary-Anne, Arts	*Pittsfield*	Colvin Hall
Haney, Ralph William, Ee.	*Bangor*	176 Ohio Street, Bangor
Harrington, Edgar Bernard, Fm.	*Patten*	Φ Η Κ House
Haskell, Gwendolyn Estelle, Arts	*Lincoln*	South Hall
Hastings, Virginia Kittridge, He.	*Bangor*	61 Congress Street, Bangor
Hathaway, Florence Adelle, Arts	*Bangor*	Hammond Street, Bangor
Hatt, Roy James, Arts	*Brewer*	R. #5, Brewer
Hayes, Helen Virginia, He.	*Bangor*	15 Stone Street, Bangor
Healy, Robert Morris, Arts	*Augusta*	Β Θ Π House

Henderson, Edward Anson, Ce.	*Houlton*	148 Main Street
Henderson, Sherwood William, Me.	*Anson*	25 Grove Street
Hepburn, William George, Me.	*South Portland*	A X A House
Herrick, Carleton Sewall, Jr., Arts	*South Brewer* 61 Elm Street, South Brewer	
Hersey, Richard Winslow, Arts	*Portland*	6 Mill Street
Higgins, Irwin Raymond, Bc.	*Mapleton*	25 Grove Street
Higgins, Joseph Scott, Ph.	*Dennysville*	Φ K Σ House
Hill, Rebecca, Arts	*Machias*	Balentine Hall
Hines, Marion Ruth, Arts	*Middletown, Conn.*	Balentine Hall
Hoctor, Edmund William, Arts	*Old Orchard Beach*	28 Main Street
Hodgkins, Earl Littlefield, Ce.	*Northeast Harbor*	Σ A E House
Hodgkins, Winfield Chester, Ch.Eng.	*Bar Harbor*	80 North Main Street
Hogan, Barbara Bates, Arts	*Bath*	Balentine Hall
Holmes, Edna Frances, He.	*Limerick*	South Hall
Holmes, Robert Goodwin, Ee.	*Guilford*	Σ X House
Hood, Natalie Ruth, Arts	*New Gloucester*	Balentine Hall
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 H K House
Hornbeck, Hulet Clark, Fy.	*Bloomfield, N. J.*	45 Mill Street
Horton, James Bartlett, Ch.Eng.	*Brewer* 113 Chamberlain Street, Brewer	
Houghton, John William, Fm.	*Fort Fairfield*	Φ H K House
Houston, John, Arts	*Guilford*	Σ X House
Howe, Allan Morton, Ce.	*Cooper*	Φ M Δ House
Hurd, Ellen Rae, Arts	*Orono*	82 Main Street
Hurwitz, Aaron Sumner, Arts	*Roxbury, Mass.*	30 Crosby Street
Ingraham, Mark Whitmore, Ce.	*Rockport*	College Road, Star Route
Irvine, William Lloyd, Arts	*Framingham, Mass.*	Φ Γ Δ House
Jacobs, Edith, Arts	*West Baldwin*	South Hall
Johnson, Allan Wilson, Arts	*Poland*	Φ Γ Δ House
Johnson, Barbara Elaine, Arts	*Lincolnville*	South Hall
Johnson, Donald Keith, Me.	*Gardiner*	University Cabin
Johnson, Herbert Harrison, Fy.	*Onawa*	College Road
Johnson, Russell Goodwin, Me.	*Sanford*	A T Ω House
Jones, Clarence Wayland, Ee.	*Rumford*	Σ A E House
Jose, Russell David, Fy.	*Waterville*	A Γ P House
Kaplan, Harold Irving, Me.	*Nahant, Mass.*	30 Crosby Street

Karczmarczyk, Joseph, Arts	*Ludlow, Mass.*	Σ A E House
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, Jr., Arts	*Howland*	36 Grove Street
Kierstead, Edward Stevens, Fm.	*Bucksport*	Σ X House
Kilpatrick, Donald Murray, Fm.	*Presque Isle*	Φ H K House
Kimball, Charles Napier Boyer, Fm.	*Bridgewater*	20 Hamlin Street
Kimball, Dean Cushman, Fy.	*Beverly, Mass.*	27 Myrtle Street
Kimball, Gerald Winston, Fm.	*Bangor*	R.F.D. #7, Bangor
King, Hazel Thelma, He.	*Saco*	South Hall
King, Jane, He.	*Ogunquit*	Balentine Hall
King, Phyllis Muriel, Arts	*Harpswell Center*	South Hall
Kingsley, Cortna Mae, Arts	*Strong*	Colvin Hall
Knaut, Paul Allen, Jr., Bc.	*Quincy, Mass.*	380 College Road
Koehler, Audrey Mae, He.	*Orono*	430 College Road
Koialovitch, Frederick Charles, Me.	*Waterville*	A T Ω House
Kopelow, Lillian Marion, Arts	*Bangor*	196 Harlow Street, Bangor
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
Leek, Spencer Simmons, Fm.	*Bangor*	61 Hersey Avenue, Bangor
Leger, Eugene, Me.	*Newton Centre, Mass.*	K Σ House
Levene, Victor Eugene, Ht.	*Chelsea, Mass.*	15 Middle Street
Lewis, Beulah Theresa, He.	*Newport*	Colvin Hall
Libby, Marion Jordan, He.	*Milford*	Milford
Libby, Philip Judson, Ce.	*Freedom*	Δ T Δ House
Limberis, George Peter, Arts	*Bangor*	21 First Street, Bangor
Linnell, Sally Wilder, Arts	*Pembroke*	The Elms
Lipman, Henry Harris, Arts	*Chelsea, Mass.*	T E Φ House
Littlefield, Waldemar Vickery, Me.	*Brewer*	Φ K Σ House
Lobley, Frank Merrill, Arts	*Bangor*	498 Main Street, Bangor
Lombard, Virginia Rae, Arts	*Meddybemps*	The Elms
Long, Lois, He.	*Melrose, Mass.*	Colvin Hall
Loring, Charles Brooks, Ch.Eng.	*Yarmouth*	35 Grove Street
Loring, Ruth Eileen, He.	*Orono*	79 Bennoch Street
Lovley, Vaughn True, Ag.	*Presque Isle*	25 Grove Street
Lown, Bernard, Arts	*Lewiston*	380 College Road
Lundgren, Marion Christene, Arts	*New Sweden*	South Hall
Luther, Radford Weston, Me.	*Hartford, Conn.*	69 Forest Avenue

McCarthy, Thomas Edward, Arts	*Elmhurst, L. I., N. Y.*	14 Middle Street
McConnell, Mary Elizabeth, He.	*Portage*	South Hall
McGraw, Richard Bernard, Me.	*Portland*	Θ X House
McKay, Donald Hill, Me.	*Old Town*	64 Bradbury Street, Old Town
McKenney, David Harrison, Arts	*Jay*	Θ X House
McLean, Harris Linwood, Jr., Arts	*Bar Harbor*	B Θ Π House
McLeary, Robert Butler, Jr., Ed.	*Farmington*	25 Grove Street
MacLeod, Leo Mansell, Arts	*Bangor*	21 Middle Street, Bangor
Macomber, Heywood Brown, Jr., Me.	*Needham, Mass.*	Λ X Λ House
Malcolm, Ian, Fy.	*Charlemont, Mass.*	77 Mill Street
Mank, Miles Boggs, Arts	*Augusta*	B Θ Π House
Marriner, Donald Eugene, Ch.Eng.	*Rockland*	K Σ House
Marston, Arthur Adair, By.	*Newburyport, Mass.*	K Σ House
Martin, Lyle Lynwood, Ce.	*St. Albans*	University Cabin
Matthews, Royal Russell, Me.	*Lisbon Falls*	Λ T Ω House
Maurice, David, Arts	*Dorchester, Mass.*	T E Φ House
May, Virginia Edith, Arts	*Wellesley Farms, Mass.*	Balentine Hall
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, Arts	*Yonkers, N. Y.*	Σ A E House
Messer, Marguerite Sylvia, Arts	*Waban, Mass.*	Balentine Hall
Millar, Edward Reid, Me.	*Leonia, N. J.*	Φ H K House
Miniutti, Gloria Mary, Arts	*North Berwick*	Balentine Hall
Miniutti, Victor Pasquale, Fy.	*North Berwick*	77 Mill Street
Minott, Mary Elizabeth, He.	*South Portland*	Colvin Hall
Mitchell, Frederick Arthur, Ee.	*Kingfield*	25 Grove Street
Moody, Hope, He.	*Lincoln*	South Hall
Moore, Thomas Fogg, Arts	*Biddeford*	Φ K Σ House
Morris, Sumner David, Pa.	*Guilford*	45 Maple Street, Bangor
Morrison, James Linton, Ch.Eng.	*Worcester, Mass.*	Λ X Λ House
Moulton, Margaret, Arts	*Bangor*	Balentine Hall
Moulton, Parker Nash, Jr., Arts	*Wareham, Mass.*	Σ A E House
Mullen, Joseph Norman, Arts	*Houlton*	Φ Γ Δ House
Mullin, George Albert, Arts	*Holbrook, Mass.*	Λ X Λ House

Mulvany, Jane, Arts	*Bangor*	57 Pearl Street, Bangor
Murdock, Henry Thayer, Ee.	*Kennebunk*	Φ H K House
Murphy, George Vincent, Ee.	*Bar Harbor*	33 Bennoch Street
Nichols, Clarence Sidney, Ce.	*Augusta*	Λ X A House
Olsen, Einar Arthur, Fy.	*Gloucester, Mass.*	395 College Road
Page, Jane Augusta, Arts	*Newcastle*	Balentine Hall
Paine, Anna Eleanor, Arts	*Bangor*	The Elms
Patterson, William, Jr., Eng.Ps.	*Thornwood, N. Y.*	17 Margin Street
Peabody, Ruth Frances, Arts	*Houlton*	Balentine Hall
Perry, Barbara Louise, Arts	*Houlton*	The Elms
Perry, Frederick Mauran, Ge.	*Rockland*	15 Park Street
Perry, Lionel Alvah, Fm.	*Sherman Mills*	26 Island Avenue
Perry, William Louis, Arts	*Portland*	25 Grove Street
Peterson, Clarence Ames, Fm.	*Rockland*	K Σ House
Peterson, Frank Harvey, Me.	*Vinalhaven*	K Σ House
Petterson, Leonard Martin, Arts	*Deep River, Conn.*	A T Ω House
Phelan, Paul Henry, Arts	*Calais*	Δ T Δ House
Philbrook, Nancy Clara, He.	*Shelburne, N. H.*	Balentine Hall
Phillips, Margaret Goldie, He.	*Ellsworth*	The Elms
Phillips, Stanley Gilkey, Jr., Ce.	*Melrose, Mass.*	A T Ω House
Pierce, Martha Elizabeth, Arts	*Guilford*	South Hall
Pinette, Marie Cecile, Arts	*Guilford*	20 Forest Avenue
Piper, George Francis, Me.	*Biddeford*	A T Ω House
Pitman, Arnold William, Ht.	*Appleton*	25 Grove Street
Pitts, Edgar Thurlow, Arts	*Stonington*	6 Mill Street
Pollock, Thomas Edwin, Arts	*West Somerville, Mass.*	K Σ House
Potter, Frank Elwood, Dt.	*Sabattus*	A Γ P House
Pratt, Darrell Bradford, By.	*Millinocket*	Σ N House
Pratt, Muriel Elizabeth, He.	*Oxford*	The Elms
Pratt, Winthrop Bowman, Eng.Ps.	*Arlington, Mass.*	85 Main Street
Priest, Clifford Alvin, Jr., Fy.	*Bradford, Mass.*	29 Forest Avenue
Pulsifer, Allen Hallett, Me.	*Poland*	Λ X A House
Putnam, Aaron Hacker, Me.	*Houlton*	K Σ House
Ramsdell, Gordon Estey, Dh.	*Ellsworth*	25 Grove Street
Ramsey, Raymond Edward, Me.	*Bath*	Φ M Δ House

Rand, Ardyth Nedda, He.	*Sherman Mills*	15 Pierce Street
Randall, Dorothy Edith, Arts	*Oakland*	South Hall
Randall, Warren Batchelder, Arts	*Lewiston*	Φ K Σ House
Rankin, Austin Edwin, Eng.Ps.	*Camden*	College Road, Star Route
Reed, James Alden, Me.	*Boothbay*	University Cabin
Reed, John Hathaway, Fm.	*Fort Fairfield*	Φ H K House
Reggio, Andre William, Jr., Fy.	*Chestnut Hill, Mass.*	Σ X House
Remick, Charles Edward, Ph.	*Ellsworth*	25 Grove Street
Richards, Lee Warren, Jr., Arts	*Augusta*	38 Grove Street
Riese, George Augustus, Me.	*Arlington, Mass.*	K Σ House
Ripanti, Nello Frank, Ch.Eng.	*Hopedale, Mass.*	25 Grove Street
Roben, George Douglas, Ch.Eng.	*Houlton*	K Σ House
Roberts, Daniel Cogswell, 2nd, Pa.	*Peoria, Ill.*	K Σ House
Roberts, James Herbert, Arts	*Belfast*	12½ Pleasant Street
Roberts, Reginald Thomas, Me.	*Locke Mills*	Φ M Δ House
Robertson, Edward Norris, 2nd, Ce.	*Bethel*	25 Grove Street
Robertson, Frank Cole, Fy.	*Leominster, Mass.*	99 Mill Street
Robie, John William, Arts	*Augusta*	B Θ Π House
Robinson, Preston Earl, Ce.	*Bangor*	99 Webster Avenue, Bangor
Roche, John Charnley, Pa.	*Torrington, Conn.*	K Σ House
Rodman, Arlene Ruth, Arts	*Bangor*	Balentine Hall
Rollins, Ann, Arts	*Ellsworth*	Balentine Hall
Rome, Bernard Phillip, Arts	*Brookline, Mass.*	T E Φ House
Ross, Annie Estella, He.	*West Lubec*	North Hall
Ross, Donald Philip, Ce.	*Orono*	56 Park Street
Rourke, Alice Virginia, Arts	*Winthrop*	South Hall
Rowe, Barbara Marie, Arts	*Rumford*	The Elms
Rowe, Harlan Orrington, Ph.	*East Stoneham*	88 Park Street
Rowell, Lorraine Alberta, Arts	*Saco*	South Hall
Roy, Robert Francis, Ch.Eng.	*Norway*	Σ X House
Royal, Mary Arlyne, He.	*Orono*	Colvin Hall
Rushworth, Cornell Cameron, Ch.Eng.	*Madison*	University Cabin
Russell, James Louis, Arts	*Bangor*	193 Warren Street, Bangor
Ryan, Betty Jane, Arts	*Woolwich*	Balentine Hall
Ryan, Patricia Margaret, Arts	*Bangor*	82 Cedar Street, Bangor
Sanborn, Bert Sumner, Fy.	*North Uxbridge, Mass.*	Σ N House
Savage, Barbara, Arts	*Bangor*	97 Broadway, Bangor
Scammon, Elizabeth Rogers, He.	*Owls Head*	Balentine Hall

Schaible, William John, Ch.Eng.	*East Northport, L. I., N. Y.*	395 College Road
Scher, Martin Mortimer, Pa.	*New York, N. Y.*	36 Grove Street
Schertzer, Edward Abraham, Arts	*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, Arts	*Wilton*	395 College Road
Shackelford, Philip Torrey, Arts	*South Hamilton, Mass.*	Σ N House
Simmons, Eleanor Rose, Arts	*Union*	South Hall
Sinclair, Richard Montague, Pa.	*Holyoke, Mass.*	Σ X House
Sleeper, Thomas Till, Me.	*Swampscott, Mass.*	Λ X A House
Slocum, George Chisholm, Dt.	*Worcester, Mass.*	85 Main Street
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
Spear, Harlan Sylvester, Wc.	*Warren*	14 Middle Street
Spear, Jasper Adriel, Arts	*Warren*	14 Middle Street
Spencer, Beverly Wellington, Arts	*Great Works*	Great Works
Stahl, Jacob Irving, Arts	*Peabody, Mass.*	T E Φ House
Stevens, Virginia Charlotte, He.	*Old Town*	190 North Fourth Street, Old Town
Stewart, Loren Francis, Ch.Eng.	*Orono*	A T Ω House
Stone, Beth Ward, Arts	*Detroit*	The Elms
Stone, Lois Louisa, Arts	*Clinton, Mass.*	Balentine Hall
Stone, Theodore Miles, Ht.	*Milford*	Milford
Striar, David Philip, Me.	*Bangor*	14 Adams Street, Bangor
Susi, Roosevelt Theodore, Arts	*Pittsfield*	395 College Road
Suslavich, John Joseph, Me.	*Hudson, Mass.*	Φ Γ Δ House
Svedeman, Stuart Frank, Fy.	*East Milton, Mass.*	395 College Road
Swett, Arthur Howard, Arts	*Newport*	43 Mill Street
Sylvester, Neva Lorraine, Arts	*Deer Isle*	The Elms
Talbot, William Burrall, Arts	*East Machias*	K Σ House
Tanner, Edward Russell, Arts	*Jenkintown, Pa.*	Σ X House
Tarbox, Fred Snow, Me.	*Biddeford*	K Σ House
Taylor, Charles John, Arts	*Bangor*	15 McKinley Street, Bangor

Teague, Ella Elizabeth, He.	*North Turner*	Colvin Hall
Teall, Arthur Leu, Ee.	*Glen Ridge, N. J.*	Φ Γ Δ House
Theriault, Mary Robertine, Arts	*Old Town*	197 Center Street, Old Town
Thomas, Raymond Perle, Me.	*Old Town*	344 South Main Street, Old Town
Thompson, Barbara Millicent, Arts	*Brownfield*	The Elms
Thompson, Elmer Patterson, Jr., Me.	*Brownfield*	K Σ House
Thompson, Gordon John, Me.	*Rockland*	83 Park Street
Thompson, Keith Marston, Fm.	*Limestone*	Φ H K House
Thorndike, Clara Helen, He.	*Camden*	South Hall
Thorne, Cherrie Madeline, He.	*St. Albans*	Balentine Hall
Thornton, Seth Winfield, Ch.	*Belfast*	12½ Pleasant Street
Thurlow, Priscilla Emery, He.	*Buckfield*	Balentine Hall
Towne, Ruth Anna, Arts	*East Dover*	South Hall
Tracy, John Paul, Arts	*Waterville*	430 College Road
Tukey, Spaulding Murray, Ch.	*Cape Elizabeth*	K Σ House
VanHoesen, Ellis Rugg, Arts	*Delmar, N. Y.*	Δ T Δ House
Verenis, Peter Constantine, Arts	*Norway*	Φ M Δ House
Vickery, Charles Nelson, Arts	*Pittsfield*	14 Park Street
Ward, Eleanor Louise, Arts	*Fitchburg, Mass.*	The Elms
Warren, Betsy Trott, Arts	*Skowhegan*	Colvin Hall
Warren, Dorothy Lois, Arts	*Lubec*	Balentine Hall
Warren, Harold Ernest, Ch.Eng.	*Lisbon Falls*	Φ K Σ House
Warren, Richard Lucius, Ee.	*Portland*	Λ X Λ House
Washburn, Robert Rider, Fm.	*Monmouth*	395 College Road
Waterman, George Walter, Me.	*New Gloucester*	Λ X Λ House
Watson, John Thaxter, Arts	*Bangor*	104 Poplar Street, Bangor
Watson, Robert John, Arts	*Farmington*	Λ 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, He.	*Dover-Foxcroft*	Balentine Hall
Weymouth, Helen Moore, Arts	*Waterville*	Balentine Hall
Wheeler, Nathaniel Harthorn, Me.	*Waterville*	7 Summer Street

White, Mary Louise, Arts	*Orono*	48 Forest Avenue
White, Mildred Cecelia, Arts	*Costigan*	Costigan
White, Roger Edward, Eng.Ps.	*South Portlnd*	25 Grove Street
Whited, Harris Goodwin, Ag.	*Bridgewater*	Φ H K House
Whitney, Richard Walker, Arts	*Marblehead, Mass.*	Σ A E House
Wiedmer, Jack Bernard, Me.	*Glen Head, N. Y.*	85 Main Street
Wight, Kent Mansfield, Bc.	*Madison*	74 North Main Street
Wight, Muriel Leone, Arts	*Madison*	74 North Main Street
Willetts, Fred Morgan, Dh.	*Cheshire, Conn.*	Stillwater
Wilson, Raymond Edwin, Ch.Eng.	*Madison*	Σ A E House
Wing, Morris Reynolds, Fy.	*Bingham*	7 Forest Avenue
Wing, Norman Adelbert, An.	*Monmouth*	395 College Road
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, Janice Dean, He.	*Auburn*	South Hall
Worster, Arthur Roscoe, Me.	*Madison*	University Cabin
Young, Mary Alice, Arts	*Winterport*	South Hall

UPPERCLASS STUDENTS CONDITIONED FOR ADMISSION

Doten, Nathaniel Miles, Jr., Py.	('40)	*Brookline, Mass.*	University Cabin
Graves, Robert Harrison, Zo.	('41)	*Plattsburg, N. Y.*	Φ M Δ House

FRESHMEN

Abbott, Herschel George, Fy.	*Bryant Pond*	210 H. H. Hall
Adams, Charles Boswell, Ee.	*Kittery*	210 H. H. Hall
Adams, Claude Henry, Arts	*Houlton*	88 Fourth Street, Bangor
Adams, George Franklin, Agr.	*West Sumner*	401 Oak Hall
Adell, Clinton George, Agr.	*Augusta*	25 Grove Street
Adler, Joseph, Jr., Arts	*Sanford*	101 H. H. Hall
Aho, Bruno Elmer, Agr.	*Union*	6 Kell Street
Albert, Dorothy Elizabeth, He.	*Bangor*	96 Garland Street, Bangor
Alden, Rachel, Arts	*Dover-Foxcroft*	North Hall
Aldous, Marion Clair, Fy.	*Orono*	67 Mill Street

Allan, Rodney Higgins, Agr.	*South Portland*	33 Peters Street
Ambrose, James Richard, Ch.	*Bangor*	64 Earle Avenue, Bangor
Anderson, Wesley Daniel, Ce.	*Mars Hill*	304 Oak Hall
Armstrong, Charles Medville, Arts	*Robbinston*	210 Oak Hall
Atwood, Stoughton, Ee.	*Swampscott, Mass.*	306 Oak Hall
Austin, Franklin James, Me.	*Farmington*	College Road
Austin, John Maynard, Ee.	*Bethel*	102 Oak Hall
Averill, Gerald Philip, Me.	*Limerick*	9 Forest Avenue
Bacon, Otis Zalmon, Me.	*Oakland*	25 Grove Street
Bader, Richard George, Fy.	*Flushing, N. Y.*	24 Oak Street
Bagley, Edward Forrest, Agr.	*Albion*	7 Kell Street
Baisley, Thomas Morris, Jr., Fy.	*Yonkers, N. Y.*	309 H. H. Hall
Balkam, Marshall Edwin, Arts	*Calais*	60 Park Street
Barbeau, Robert Edward, Eng.	*Bangor*	R.F.D. #7, Bangor
Barrows, Frank Elisha, Jr., Me.	*Glen Ridge, N. J.*	103 H. H. Hall
Barry, Alfred George, Ch.Eng.	*Freeport, N. Y.*	103 H. H. Hall
Bartley, Charles Everett, Ch.Eng.	*Greenville*	67 Congress Street, Bangor
Bartley, Clayton Earl, Agr.	*Presque Isle*	26 Island Avenue
Bean, Barbara, He.	*Newport*	The Elms
Bearce, Elizabeth Talbot, He.	*Bucksport*	The Maples
Bearce, George Donham, Jr., Arts	*Bucksport*	212 Oak Hall
Beckman, Harry, Pa.	*Stewart Manor, N. Y.*	33 Bennoch Street
Beedy, Robert Harlan, Agr.	*Turner*	32 Pierce Street
Bell, Dorothy Eddith, He.	*Orono*	188 Main Street
Bell, Ellis Irving, Agr.	*Dennysville*	312 H H. Hall
Berry, Pearl Eugenia, Arts	*Portland*	The Maples
Berry, Roland Edward, Ch.Eng.	*Randolph*	148 Main Street
Beverage, Arthur Walter, Jr., Ce.	*North Haven*	212 Oak Hall
Bickford, Warren Herbert, Ch.Eng.	*Ogunquit*	202 H. H. Hall
Birch, Clifford Wadsworth, Jr., Eng.	*Arlington, Mass.*	401 H. H. Hall
Black, Richard Arthur, Ge.	*McKinley*	307 H. H. Hall
Blacky, Albert Robert, Fy.	*Waterford, Conn.*	211 H. H. Hall
Blanchard, Charles Nichols, Arts	*Brooklyn, N. Y.*	201 Oak Hall
Boss, Millard Otis, Me.	*Dover-Foxcroft*	311 Oak Hall
Bouchard, Constance Carmen, He.	*Caribou*	The Elms
Boulos, Joseph Sebastian, Me.	*Portland*	Φ Γ Δ House
Bourque, Joseph Wilfred, Me.	*Portland*	56 North Main Street
Bowden, Murray Chandler, Fy.	*South Penobscot*	32 Pierce Street

Brackett, Carlton Maurice, Agr.	*Newport*	University Cabin
Bradstreet, Cecil Robert, Agr.	*Albion*	25 Grove Street
Brady, Walter Hugh, Ee.	*Dorchester, Mass.*	206 H. H. Hall
Bragdon, Richard Alton, Arts	*Cumberland Mills*	205 Oak Hall
Brawn, Beverly Anne, Arts	*Brunswick*	The Elms
Brawn, Erma Louise, Arts	*South Lincoln*	20 Forest Avenue
Bridges, Arthur Hanson, Ee.	*York Village*	110 H. H. Hall
Bridges, Jennie Mae, Arts	*Calais*	North Hall
Bridgford, Alfred Roy, Jr., Ce.	*Leicester, Mass.*	112 H. H. Hall
Brock, William Emery, Ee.	*Alfred*	407 H. H. Hall
Brown, Francis Almon, Me.	*Woodland*	24 Oak Street
Brown, Rachel Elizabeth, Arts	*Skowhegan*	The Maples
Brunk, Richard Moulton, Agr.	*Limington*	Stillwater
Bryant, Hope Goodwin, He.	*Biddeford*	The Maples
Bryant, Phyllis Maude, Arts	*Madison*	North Hall
Buck, Howard Mumford, Ce.	*South Willington, Conn.*	210 H. H. Hall
Buckley, Oliver Edward, Jr., Ce.	*Pittsfield*	208 H. H. Hall
Burgess, Hollis Tolman, Agr.	*Vinalhaven*	14 Kell Street
Burnell, Grace Evelyn, Arts	*Cumberland Center*	65 College Road
Burnham, Waldo Harding, Ee.	*East Edgecomb*	108 Oak Hall
Burns, Gilbert Comyn, Jr., Pa.	*Newton Centre, Mass.*	204 H. H. Hall
Butler, Eileen Lucille, Arts	*Dover-Foxcroft*	The Maples
Butler, Robert Scott, Agr.	*Portland*	304 H. H. Hall
Caldwell, David Story, Jr., Fy.	*South Byfield, Mass.*	7 Kell Street
Came, Barbara Louise, Arts	*Bar Harbor*	The Elms
Carlson, Arthur Fletcher, Me.	*Belfast*	109 H. H. Hall
Carlson, Gilbert Mason, Fy.	*Milton, Mass.*	206 Oak Hall
Carroll, Helena Thornton, Arts	*Bangor*	1 Whitney Street, Bangor
Carter, G. Milton, Arts	*Caribou*	112 H. H. Hall
Cassidy, Rita Marie, Arts	*Bangor*	363 State Street, Bangor
Chadwick, Lewis Peter, Ch.Eng.	*Brewer*	42 Peters Street
Chandler, Sydney Hobart, Jr., Me	*Caribou*	88 Park Street
Chapman, Mary Louise, He.	*Portland*	The Maples
Chapman, Robert Loveitt, Me.	*Portland*	107 Oak Hall
Church, Margaret Elizabeth, He.	*Gardiner*	The Maples
Chute, Philip Conrad, Fy.	*Naples*	384 College Road
Cilley, Martha Irene, Arts	*Belfast*	North Hall
Clark, Gladys Bernice, He.	*Sanford*	The Maples

Clark, Virginia Dawn, Arts	*Orono*	505 College Road
Claverie, Sumner Abbott, Agr.	*West Roxbury, Mass.*	51 North Main Street
Clements, Basil Charles, Agr.	*Winterport*	208 H. H. Hall
Clifford, Frank Atwood, Me.	*Dexter*	23 Park Street
Clifford, George Edwin, Me.	*Boothbay Harbor*	108 Oak Hall
Clifford, Thomas Lane, Agr.	*South Paris*	110 Oak Hall
Coffin, Charles Edward, Ee.	*Bucksport*	Bucksport
Coffin, Hazen Bartlett, Me.	*Bangor*	639 Broadway, Bangor
Coffin, Mina Alicia, Arts	*Bangor*	11 Autumn Street, Bangor
Coffin, Philip Milton, Jr., Me.	*Bangor*	41 Boutelle Road, Bangor
Cohen, Eunice Beatrice, He.	*Bangor*	50 East Summer Street, Bangor
Cole, Barbara, Arts	*Bryant Pond*	North Hall
Cole, Harold Leon, Ee.	*Saco*	109 H. H. Hall
Cole, Winona Adelaide, He.	*Bangor*	4 North Park Street, Bangor
Collins, Richard Wesley, Ch.Eng.	*Farmington*	308 Oak Hall
Conant, Calvin Benjamin, Jr., Fy.	*Auburn*	111 H. H. Hall
Conant, Virginia, Arts	*Monroe*	74 North Main Street
Cook, Wendell Hammond, Agr.	*Phillips*	408 H. H. Hall
Coons, Melvin Hubert, Ch.Eng.	*Woodland*	24 Oak Street
Corliss, Ray Edward, Agr.	*Sherman Mills*	401 H. H. Hall
Corliss, Ruth Marie, Arts	*Sherman Mills*	North Hall
Costello, William Henry, Ch.Eng.	*South Portland*	111 Oak Hall
Cousins, Frederick Harlan, Me.	*East Blue Hill*	25 Grove Street
Coyne, Edward, Jr., Me.	*Gorham*	401 H. H. Hall
Cram, Chester David, Jr., Arts	*Sanford*	111 H. H. Hall
Crane, Talbot Harlow, Arts	*Orono*	208 Oak Hall
Creamer, John James, Ce.	*Hopedale, Mass.*	17 Margin Street
Crosby, Howard Alvah, Ee	*Bangor*	321 Ohio Street, Bangor
Cross, Florence May, Arts	*Guilford*	The Maples
Crossland, Carlton Elmore, Arts	*Orono*	5 Riverdale
Crossmann, Mary Margaret, Arts	*Dover-Foxcroft*	North Hall
Cullinan, John Pircel, Arts	*Norway*	404 Oak Hall
Cunningham, Dana Roy, Me.	*Old Town*	205 Oak Hall
Currier, Philip Lyman, Arts	*Wilmington, Del.*	111 H. H. Hall
Cushman, Cedric Russell, Ch.Eng.	*Portland*	97 Fern Street, Bangor
Cushman, Helen Vera, He.	*Auburn*	North Hall
Danforth, Phyllis Louise, He.	*Ellsworth*	The Maples
Daniels, Robert Louis, Ch.Eng.	*Belmont, Mass.*	380 College Road

Davis, Grant Freethy, Ch.Eng.	*Rockland*	303 Oak Hall
Day, Harland Elmore, Fy.	*Strong*	303 Oak Hall
Deering, Helen Marion, He.	*Orono*	160 College Road
Dempsey, Mary Jane, He.	*Old Town*	29 Elm Street, Old Town
Detwyler, Richard Elroy, Bt. & En.	*Yonkers, N. Y.*	38 Grove Street
Devereux, Mark Chandler, Agr.	*North Castine*	23 Park Street
Dickerson, John Garland, Jr., Me.	*Biddeford*	303 H. H. Hall
Dingley, Dana Coolidge, Agr.	*Farmington*	College Road
Dixon, Doris Helen, He.	*South Berwick*	The Maples
Dodge, George Ira, Jr., Ce.	*Dark Harbor*	412 H. H. Hall
Dodge, Robert Thompson, Ee.	*Bangor*	715 Ohio Street, Bangor
Dodge, William Louis, Ch.Eng.	*Bangor*	143 State Street, Bangor
Donahue, Merrill Lancey, Ch.Eng.	*Belfast*	211 Oak Hall
Donovan, Frances Marie, Arts	*Houlton*	The Maples
Dorr, Lawrence Leroy, Agr.	*Harrington*	25 Grove Street
Dozier, Richard Hughes, Eng.	*Rhinelander, Wis.*	33 Bennoch Street
Drew, Frances, Arts	*Sedgwick*	The Maples
Duckworth, Edward George, Arts	*North Attleboro, Mass.*	301 H. H. Hall
Dudley, Dana Forrest, Agr.	*Mapleton*	103 Oak Hall
Dudley, Willa Arlene, He.	*Mapleton*	The Maples
Duff, Charles Raymond, Ee.	*Rockland*	305 H. H. Hall
Dyer, Helen Hall, He.	*Bangor*	362 French Street, Bangor
Easton, Thomas William, Arts	*Bridgton*	33 Pond Street
Ebbett, Dean Wendell, Agr.	*Presque Isle*	20 Hamlin Street
Edelstein, Albert Nathaniel, Arts	*Sanford*	410 Oak Hall
Elliott, Russell Smith, Ee.	*Bangor*	37 Thatcher Street, Bangor
Ellis, Lewis Kenneth, Fy.	*Brewer*	55 Chamberlain Street, Brewer
Ellis, William Nice, Eng.Ps.	*Rangeley*	100 North Main Street
Elwell, Eben Littlefield, Arts	*Brooks*	25 Grove Street
Emerson, Frank Levi, Ch.	*Hampden*	Hampden
Emerson, Harold LaForest, Arts	*Island Falls*	205 H. H. Hall
Emery, Lewis Gardner, Me.	*Westbrook*	203 H. H. Hall
Enman, John Aubrey, Jr., Arts	*New York, N. Y.*	104 H. H. Hall
Epling, Helen Cresson Young, Arts	*Fort Totten, N. Y.*	University Place
Erikson, Gordon Iver, Arts	*Worcester, Mass.*	307 H. H. Hall

Estabrook, Leo Harding, Agr.	*East Corinth*	102 Mill Street
Etzel, Bernard Adam, Agr.	*Freeport*	207 H. H. Hall
Etzel, Edward Fredrick, Fy.	*East Haven, Conn.*	209 H. H. Hall
Evans, Loring Dalrymple, Ce.	*Dover, N. H.*	5 Forest Avenue
Everett, John Stephen, Jr., Arts	*Hallowell*	209 H. H. Hall
Fagerlund, Eino Waino, Ch.Eng.	*Quincy, Mass.*	301 Oak Hall
Falardeau, Edward John, Agr.	*Rumford*	411 H. H. Hall
Farrin, Alva Edison, Fy.	*South Bristol*	395 College Road
Farris, Arthur Burnell, Fy.	*Union*	Kell Street, Star Route
Fenderson, Albion William, Arts	*Sanford*	25 Grove Street
Fides, Avery Meader, Jr., Arts	*Bowdoinhm*	308 Oak Hall
Fides, Georgie Etta, Arts	*Bowdoinham*	The Maples
Files, Harry Walker, Jr., Arts	*Peaks Island*	109 Oak Hall
Finch, John Roger, Agr.	*Newark, N. Y.*	18 Oak Street
Flanagan, Joseph Francis, Ch.Eng.	*Bangor*	207 Maple Street, Bangor
Flanders, Freda Natalie, Arts	*Bangor*	North Hall
Fletcher, Irving Charles, Arts	*Rockland, Mass.*	33 Bennoch Street
Fletcher, James Spencer, Fy.	*Mansfield, Mass.*	210 H. H. Hall
Flora, William Richard, Arts	*Caribou*	211 H. H. Hall
Fogler, Henry Harrison, Ch.Eng.	*Hinsdale, Ill.*	204 Oak Hall
Ford, Patrick Michael, Arts	*Hollywood, Calif.*	410 H. H. Hall
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, Elizabeth Caroline, Arts	*Enfield*	59 College Road
Foster, Walter Herbert, Jr., Agr.	*Belmont, Mass.*	380 College Road
Frost, Mara, Arts	*York Village*	The Elms
Frost, Stanley Wilford, Fy.	*Norway*	104 Oak Hall
Furbish, Harriett Emery, Arts	*South Berwick*	The Elms
Gardner, Charles Edmond, Ch.Eng.	*Wakefield, Mass.*	105 Oak Hall
Gaulin, Rodolphe Alexis, Arts	*Biddeford*	16 Pine Street
Geneva, Maurice Louis, Ch.Eng.	*South Portland*	33 Peters Street
Gerrish, Evelyn Arlene, He.	*Auburn*	The Maples
Gifford, Charlotte Mae, Arts	*Bangor*	240 State Street, Bangor
Gildersleeve, Charles Elmer, Fy.	*Mystic, Conn.*	407 H. H. Hall
Gilman, Clarence Reginald, Fy.	*Bingham*	7 Forest Avenue
Gilman, Stanley Francis, Me.	*Portland*	203 H. H. Hall
Girard, Frances Amala, He.	*Portland*	The Maples
Given, Jane Louisa, He.	*Bowdoinham*	The Maples

Godson, Lindley William, Fy.	*Colonia, N. J.*	409 H. H. Hall
Golbranson, Frank Landgrane, Arts	*Presque Isle*	20 Hamlin Street
Goldberg, Joseph, Arts	*Bangor*	56 Essex Street, Bangor
Goldsmith, Joseph Elliott, Arts	*Old Town*	174 Stillwater Avenue, Old Town
Gooch, Earle Eastman, Arts	*Hulls Cove*	81 Main Street
Goodchild, James Carleton, Arts	*Saco*	105 Oak Hall
Gooding, William Thaxter, Jr., Ch.Eng.	*Portland*	404 H. H. Hall
Goodman, Saul, Arts	*Hartford, Conn.*	12 Pleasant Street
Goos, Celia, He.	*Bangor*	87 Birch Street, Bangor
Gordon, Robert, Me.	*Springfield, Mass.*	33 Bennoch Street
Gorham, William Bert, Fy.	*Dover-Foxcroft*	307 Oak Hall
Gott, George Joseph, Jr., Me.	*Brooklin*	101 H. H. Hall
Gould, Rebecca Marjorie, He.	*Milo*	North Hall
Goutiere, Peter Joffre de M., Arts	*Brewer*	24 Holyoke Street, Brewer
Grady, Mary Elizabeth, He.	*Eastport*	The Maples
Graffam, Donald Campbell, Arts	*Bangor*	120 Forest Avenue, Bangor
Graham, Ralph Earl, Jr., Arts	*Brewer*	412 H. H. Hall
Graves, Donald Francis, Arts	*Northeast Harbor*	203 H. H. Hall
Gray, Norma Frances, Arts	*Cape Elizabeth*	North Hall
Grenci, Evelyn Marie, Arts	*Peekskill, N. Y.*	The Elms
Grindle, Louise Helen, He.	*Mt. Desert*	36 Fourth Street, Bangor
Grover, Keith Leslie, Fy.	*East Stoneham*	88 Park Street
Guptill, Edward William, Me.	*Bangor*	112 Ohio Street, Bangor
Hadlock, William Kenneth, Me.	*Quincy, Mass.*	304 H. H. Hall
Haggett, James Elmer, Pa.	*Norway*	3 Park Street
Hague, Allan Perley, Agr.	*Gorham*	25 Grove Street
Hague, Anita Marie, Arts	*Hallowell*	The Elms
Haines, Frank Warren, Jr., Arts	*Augusta*	212 H. H. Hall
Hall, Walter Butler, Ch.Eng.	*North Anson*	101 H. H. Hall
Hamblen, Edward George, Fy.	*Winthrop*	3 Park Street
Hamilton, Clinton Monroe, Me.	*South Harpswell*	3 Park Street
Hamm, Phillip Lord, Ch.Eng.	*Charleston*	25 Grove Street
Hancock, Owen Linwood, Fy.	*Casco*	204 H. H. Hall
Hanson, Joseph Herbert, Arts	*Millinocket*	305 Oak Hall
Hardie, Alexander, Jr., Bc.	*Emsworth, Pa.*	207 Oak Hall
Harding, David Ray, Fy.	*Bernard*	102 H. H. Hall

Harding, William Roy, Ge.	*Bernard*	102 H. H. Hall
Hardison, Allen Crosby, Agr.	*Fillmore, Calif.*	110 H. H. Hall
Harlow, Robert James, Ch.Eng.	*Barre Plains, Mass.*	410 H. H. Hall
Harper, Donald Clarence, Fy.	*Rochester, N. Y.*	403 H. H. Hall
Harrison, Robert Edward, Ee.	*Waterville*	80 North Main Street
Harvey, Beverley Hunter, Arts	*Carmel*	Carmel
Harvey, George Stanley, Jr., Agr.	*Medford, Mass.*	403 H. H. Hall
Haskell, Ernest Edward, Jr., Ee.	*North Anson*	104 H. H. Hall
Hatch, Fletcher Ames, Jr., Me.	*West Newton, Mass.*	412 Oak Hall
Hawkins, Glenn Alan, Fy.	*Plandome, L. I., N. Y.*	205 H. H. Hall
Hay, Robert Bernard, Me.	*Portland*	12 Park Street
Heald, Alice Eleanor, Arts	*Old Town*	26 A Front Street, Old Town
Heaton, Sara Margaret, Arts	*Portland*	6 Gilbert Street
Hempstead, David Geer, Me.	*Bucksport*	408 H. H. Hall
Hempstead, Mary VanNess, He.	*Bucksport*	North Hall
Henderson, Robert Julian, Fy.	*Ogunquit*	Stillwater Avenue, Stillwater
Henry, Iva Virginia, Arts	*Thomaston*	The Elms
Herbolzheimer, Fred, Jr., Pa.	*Reading, Mass.*	401 Oak Hall
Herman, Milton, Arts	*Mt. Vernon, N. Y.*	60 Forest Avenue
Herzberg, Gerard Alexander, Agr.	*New York, N. Y.*	310 H. H. Hall
Hewett, Orris Churchill, Arts	*North New Portland*	123 Middle Street, Old Town
Hilton, James Bryce, Me.	*Bingham*	309 Oak Hall
Hinckley, George Lyman, Me.	*Manset*	384 College Road
Hine, Ernest James, Eng.	*Palmer, Mass.*	404 H. H. Hall
Hodgkins, Dorothy Leona, He.	*Northeast Harbor*	The Elms
Hoffman, Everett Meyer, Arts	*Chelsea, Mass.*	201 H. H. Hall
Holden, Frank Charles, Ce.	*Millinocket*	104 H. H. Hall
Holland, Edward Joseph, Jr., Ch.	*Bangor*	356 French Street, Bangor
Holter, John Latimer, Ch.Eng.	*Newtonville, Mass.*	202 Oak Hall
Horeyseck, Paul Weidig, Ch.Eng.	*Rockland*	409 Oak Hall
Horrocks, Rex Albert, Ce.	*Wilton*	Kell Street
Howard, Harold Everett, Me.	*Ridlonville*	402 H. H. Hall
Hoyt, Louise Beryl, He.	*Fort Fairfield*	The Maples
Hubbard, Robert Newton, Me.	*Pittsfield*	311 H. H. Hall
Hunt, John Herbert, Fy.	*Fairfield*	109 H. H. Hall
Hunter, Eleanor Ruth, He.	*Unity*	North Hall

Huntley, Edith Jordan, Arts	*Old Town*	20 Willow Street, Old Town
Hurd, Lester Merrill, Ee.	*Biddeford*	409 Oak Hall
Hussey, Eugene Rosswell, Agr.	*Kezar Falls*	104 Oak Hall
Hutchinson, Gerald Guilford, Arts	*Millinocket*	151 South Brunswick Street, Old Town
Ingalls, Everett Palmer, Jr., Ch.Eng.	*Westbrook*	204 Oak Hall
Ingalls, Robert Dale, Ch.Eng.	*Bar Harbor*	202 H. H. Hall
Inman, Charles Priestley, Arts	*Orono*	40 Middle Street
Innes, Donald Winslow, Ce.	*South Portland*	209 Oak Hall
Jackson, Henry Alden, Ch.Eng.	*Rockville Centre, N. Y.*	305 Oak Hall
Jacobsen, Lyman William, Agr.	*Bar Harbor*	112 Oak Hall
Jalbert, Armand Wilfred, Ce.	*Spencer, Mass.*	100 North Main Street
Jameson, William Sherman, Agr.	*Waldoboro*	302 H. H. Hall
Jardine, Donald Ross, Ch.Eng.	*Madison*	402 H. H. Hall
Jenkins, Robert Dunlap, Ch.Eng.	*Orono*	202 Oak Hall
Jensen, Helena Marie, He.	*Scarboro*	The Maples
Johnson, Eleanor Marilyn, He.	*Sanford*	The Maples
Johnson, Philip Edward, Me.	*Spencer, Mass.*	33 Pond Street
Johnson, Ralph Adolph, Jr., Ee.	*Lowell, Mass.*	103 H. H. Hall
Johnson, Richard Melvin, Ee.	*Fairfield*	205 Oak Hall
Johnston, Rita Ellen, He.	*Bangor*	35 Boutelle Road, Bangor
Jones, Richard Frye, Arts	*Unity*	24 Oak Street
Kaelin, Robert Werner, Fy.	*Palisade, N. J.*	College Road, Stillwater
Kagan, Molly, Arts	*Bangor*	183 York Street, Bangor
Karl, Richard Wardwell, Arts	*Rockland*	311 Oak Hall
Kay, Kenneth Joseph, Me.	*Bridgeport, Conn.*	404 Oak Hall
Keenan, Gerald Leo, Ee.	*Mars Hill*	University Cabin
Keene, Philip Earl, Agr.	*Appleton*	25 Grove Street
Keiter, Irving, Arts	*Chelsea, Mass.*	201 H. H. Hall
Kelley, Asenith Harriette, Arts	*Waterville*	North Hall
Kelley, John Douglas, Arts	*South Portland*	111 Oak Hall
Keniston, Robert Fiske, Me.	*West Paris*	406 Oak Hall
Kimball, Myra Jean, Arts	*Damariscotta*	North Hall

Kinney, Keith Wyman, Agr.	*Bradford Center*	102 Mill Street
Kittredge, Arthur Kendall, Ee.	*McKinley*	409 H. H. Hall
Klein, Ronald, Arts	*Eagle Lake*	60 Forest Avenue
Klucken, Ralph Anthony, Ch.	*East Stoneham*	3 Park Street
Knight, Betty, He.	*Unity*	North Hall
Knowlton, David Hale, Ch.Eng.	*Beverly, Mass.*	103 H. H. Hall
LaCroix, Harold Joseph, Arts	*South Portland*	380 College Road
Ladner, LeRoy Alexander, Fy.	*Bangor*	107 Mt. Hope Avenue, Bangor
Lafond, Paul Decella, Arts	*Skowhegan*	211 H. H. Hall
Laliberte, William Gordon, Arts	*Brewer*	60 Chamberlain Street, Brewer
Langdon, Elinor Frances, Arts	*Kittery*	North Hall
Lange, Roland Parlin, Ch.Eng.	*Jackman*	100 North Main Street
Langley, Earl Berfield, Agr.	*Easton*	University Cabin
Larouche, Samuel Olivier, Ch.Eng.	*Milo*	1 Mill Street Lane
Leadbeater, Barbara Vesta, Arts	*North Whitefield*	The Elms
Leavitt, Eben, Jr., Ee.	*Bangor*	441 Union Street, Bangor
Lees, Richard Warner, Ch.Eng.	*Hamden, Conn.*	100 North Main Street
Leonard, Frederic Adams, By.	*Bangor*	20 Norfolk Street, Bangor
Leonard, Henry Grant, Jr., Fy.	*Westfield, N. J.*	312 H. H. Hall
Lewis, Horace Worster, Fy.	*Bangor*	203 Oak Hall
L'Herault, Francis Ralph, Me.	*Damariscotta*	395 College Road
Libby, Donald William, Pa.	*Orono*	52 North Main Street
Libby, Elizabeth Virginia, Arts	*Charleston*	College Road
Libby, Margaret Alice, Arts	*Charleston*	College Road
Limon, Gerald Norman, Arts	*New York, N. Y.*	405 H. H. Hall
Lindsay, William Alexander, Arts	*Somerville, Mass.*	310 Oak Hall
Littlefield, Marian Edna, Arts	*Milo*	North Hall
Littlefield, Stanley Sherburn, Me.	*York Harbor*	7 Kell Street
London, Norman Rex, Pa.	*Forest Hills, L. I., N. Y.*	311 H. H. Hall
Long, Fletcher Jackson, Agr.	*South Portland*	403 Oak Hall
Lord, Jay Merrill, Me.	*Kezar Falls*	101 Oak Hall
Loring, Priscilla, Arts	*Freeport*	79 Bennoch Street
Lorusso, Louis Paul, Arts	*East Walpole, Mass.*	60 Forest Avenue
Lovely, Mary Alice, Arts	*Old Town*	30 North Fourth Street, Old Town

Lufkin, Charles H., Arts	*Bucksport*	303 H. H. Hall
Lutes, Olin Silas, Jr., Eng.	*Orono*	College Road
Lycette, Robert Charles, Me.	*Oakmont, Pa.*	110 H. H. Hall
Lyon, Norman Richardson, Me.	*Pittsfield*	311 H. H. Hall
McCarthy, Marcia Merrow, Arts	*Waterville*	The Maples
McCarthy, Mary Eleanor, Arts	*Bangor*	256 Birch Street, Bangor
McCloskey, Hugh Francis, Arts	*Bangor*	32 Second Street, Bangor
McGlauflin, Ernest Thurston, Agr.	*Presque Isle*	80 North Main Street
McKay, Ruth, Arts	*Old Town*	64 Bradbury Street, Old Town
McKeen, Richard Douglas, Me.	*Bangor*	16 Garland Street, Bangor
MacKenzie, Victoria Evelyn, He.	*East Millinocket*	The Maples
McLaughlin, Wayne Thurlow, Ee.	*Medway*	411 H. H. Hall
MacLeod, Dorothy Elizabeth, Arts	*Bar Harbor*	The Elms
Mack, Jean C., Arts	*Bangor*	The Maples
Maker, Irwin Wyman, Fy.	*Mattawamkeag*	88 Park Street
Manhire, Richard Henry, Arts	*Hallowell*	36 Grove Street
Manter, Robert Lester, Agr.	*Brunswick*	212 H. H. Hall
Marden, Wilbur James, Fy.	*Monroe*	25 Grove Street
Markee, Charles Alton, Pa.	*Calais*	210 Oak Hall
Martinez, Richard Edward, Arts	*Albany, N. Y.*	302 H. H. Hall
Matley, Francis Russell, Eng.	*Westbrook*	410 Oak Hall
Maxim, James Arthur, Ee.	*Mechanic Falls*	Kell Street, Star Route
Merchant, James Eldridge Greene, Arts	*Newtonville, Mass.*	395 College Road
Merrill, Charles Reed, Ce.	*Madison*	310 Oak Hall
Miller, John Prince, Ee.	*West Medford, Mass.*	306 H. H. Hall
Mongovan, Harold Eaton, Jr., Pa.	*Bangor*	4 Graham Avenue, Bangor
Monohon, Janet Grace, Arts	*Bangor*	172 Fourteenth Street, Bangor
Moody, Dwight Campbell, Agr.	*Lincoln*	403 H. H. Hall
Mooney, Francis Cyprian, Arts	*Bangor*	33 Vine Street, Bangor
Moran, Dorothy Barbara, Arts	*Portland*	The Maples
Morey, Robert Lester, Jr., Me.	*Swampscott, Mass.*	101 Oak Hall
Morris, Phyllis Mary, He.	*Bangor*	270 French Street, Bangor
Morrison, Charlotte Allen, He.	*Bar Harbor*	The Elms
Morrison, William James, Me.	*Cape Cottage*	395 College Road
Morse, Carleton Lorin, Jr., Ee.	*Newton Centre, Mass.*	306 H. H. Hall

Morse, Jean Annette, Arts	*Bangor*	101 Royal Road, Bangor
Mortland, Hilton Ralph, Fy.	*Searsport*	25 Grove Street
Moscone, Margaret Tina, He.	*East Millinocket*	The Elms
Mosher, Norman William, Pa.	*Belfast*	211 Oak Hall
Moulton, Arthur Bertram, Ee.	*York Village*	Stillwater
Moulton, James Albion, Agr.	*Hiram*	204 H. H. Hall
Moulton, Roger Daniels, Ee.	*York Village*	Stillwater
Moynihan, Mary Elizabeth, Arts	*Madison*	The Maples
Mudgett, Frank Aubert, Jr., Me.	*South Eliot*	403 Oak Hall
Mullen, Helen Ruth, Arts	*Houlton*	The Maples
Myers, Helen Elizabeth, Arts	*Orono*	33 Spencer Lane
Nelson, Norman Thomas, Arts	*Old Town*	Indian Island, Old Town
Nelson, Peter Samuel, Agr.	*Old Town*	Indian Island, Old Town
Newdick, Robert Lincoln, Ch.Eng.	*Augusta*	109 Oak Hall
Nickerson, Charlotte Ellen, He.	*Brewer*	98½ State Street, Brewer
Nickerson, Clifton Scales, Fy.	*Bath*	401 H. H. Hall
Norton, George Austin, Eng.	*Northampton, Mass.*	405 Oak Hall
Norton, Richard Francis, Agr.	*Portland*	409 H. H. Hall
Nowak, Andrew Arthur, Arts	*Bangor*	50 Pine Street, Bangor
Oakes, Emily Merrill, Arts	*Freeport*	The Elms
O'Brien, John Augustus, Ee.	*Lewiston*	88 Park Street
O'Mara, Stella Mary, Arts	*East Millinocket*	The Elms
O'Neil, Wilbert Eugene, Arts	*Dresden Mills*	148 Main Street
Ordway, Harriet Howard, Arts	*Yarmouth*	The Maples
Osgood, Gerald Colfax, Agr.	*Bradford*	102 Mill Street
Ouellette, Dorothy Alice, Arts	*Madison*	The Maples
Overlock, Leland Elmer, Me.	*South Warren*	51 North Main Street
Oxner, Clyde Russell, Me.	*South Berwick*	209 H. H. Hall
Page, Martha, He.	*Bath*	The Elms
Parker, Charles Henry, Arts	*Addison*	51 North Main Street
Parker, Clarence Willis, Ch.Eng.	*Sebec Station*	407 Oak Hall
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*	The Maples
Pearson, Margaret Elizabeth, Arts	*Kennebunkport*	The Maples
Peckham, Malcolm Curtis, Agr.	*Taunton, Mass.*	410 H. H. Hall
Peirce, Charlotte Sara, He.	*Bangor*	205 Elm Street, Bangor
Pendleton, Frank Emerson, Jr., Ch.Eng.	*Caribou*	310 H. H. Hall
Perazzi, Francesca Mary, Arts	*Hallowell*	The Elms
Perkins, Stuart Hamilton, Agr.	*Kennebunk*	404 H H. Hall
Perro, Mary Harriet, He.	*Old Town*	72 South Brunswick Street, Old Town
Perry, Leonard Joseph, Jr., Ch.Eng.	*Bangor*	382 Lincoln Street, Bangor
Pfeiffer, Charles Leslie, Fy.	*South Natick, Mass.*	412 Oak Hall
Pierce, Richard MacMillan, Fy.	*Gardiner*	408 Oak Hall
Pinansky, Linwood Harold, Arts	*Portland*	60 Forest Avenue
Pinkham, Linwood Birdell, Ce.	*Kingfield*	25 Grove Street
Plaisted, Philip Heath, Agr.	*Oakland*	208 Oak Hall
Pond, Hulda Franklin, He.	*Hampden*	Hampden
Pooler, Mary Anita, Arts	*Waterville*	The Elms
Potter, Edgar Morse, Arts	*Kittery*	33 Bennoch Street
Powers, John Nolan, Ee.	*Medway*	25 Grove Street
Pratt, Bertis Lee, Jr., Arts	*Caribou*	301 Oak Hall
Pray, Charles Alton, Agr.	*Newport*	25 Grove Street
Price, Betty Catherine, Arts	*Washburn*	North Hall
Putnam, Neal Clifford, Agr.	*Monroe*	25 Grove Street
Quint, Lloyd Frank, Arts	*Portland*	408 Oak Hall
Radley, John Robert, Pa.	*Attleboro, Mass.*	85 Main Street
Rafferty, Thomas Hilary, Me.	*Old Town*	131 North Veazie Street, Old Town
Rafford, Arthur Palmer, Agr.	*Ashland*	212 H. H. Hall
Ramsdell, Patricia Marie, Arts	*Bangor*	230 West Broadway, Bangor
Rand, Preston Brown, Arts	*Bangor*	14 Frances Street, Bangor
Ranks, John Ellis, Ee.	*South Portland*	209 Oak Hall
Ransden, Proctor Wayne, Fy.	*Tewksbury, Mass.*	211 H. H. Hall
Reynolds, Bion Edward, Ce.	*Winthrop*	312 H. H. Hall

Reynolds, Edgar Bradford, Agr.	*Portland*	33 Bennoch Street
Reynolds, Eugene Earl, Arts	*Lubec*	410 H. H. Hall
Rich, David Elmer, Jr., Me.	*Bath*	402 H. H. Hall
Richardson, Leighton Russell, Me.	*Saco*	407 Oak Hall
Rideout, Elmer William, Jr., Arts	*Niagara Falls, N. Y.*	207 H. H. Hall
Roach, Robert Garfield, Ch.Eng.	*Fort Fairfield*	Park Street
Robbins, Stephen Leon, Fy.	*Kittery*	402 Oak Hall
Roberts, Shirley Alford, Arts	*Robbinston*	218 Brunswick Street, Old Town
Robinson, Donald Manfred, Me.	*Staten Island, N. Y.*	309 H. H. Hall
Robinson, Edward Alfred, Fy.	*Bronxville, N. Y.*	203 H. H. Hall
Rogers, Carolyn Elaine, He.	*Old Town*	106 Middle Street, Old Town
Rogers, Madolin Charlotte, He.	*Houlton*	The Maples
Roll, Warren Roosevelt, Agr.	*Glen Cove, N. Y.*	406 H. H. Hall
Rollins, Lawrence Hollis, Ee.	*Haynesville*	24 Oak Street
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*	North Hall
Rowell, Ruth Olive, Arts	*Thomaston*	The Elms
Rubinoff, Sally, Arts	*Auburn*	The Elms
Rudolph, Louis, Ee.	*Chelsea, Mass.*	410 Oak Hall
Runels, Ralph Charles, Ge.	*Lowell, Mass.*	303 H. H. Hall
Russell, James William, Fy.	*Gray*	University Cabin
Russell, Philip Irvin, Agr.	*South Portland*	202 H. H. Hall
Ruth, Robert Mathew, Agr.	*Houlton*	110 H. H. Hall
Saltzman, Elmer, Arts	*Bangor*	303 Broadway, Bangor
Sargent, Mary Elizabeth, He.	*Alton*	Stillwater
Savage, Lois Ann, He.	*Springfield, Mass.*	The Maples
Savage, Robert Mardell, Ee.	*Northeast Harbor*	33 Bennoch Street
Savasuk, Chester, Arts	*Waterville*	411 H. H. Hall
Sawyer, Carl Leslie, Agr.	*Newport*	25 Grove Street
Sawyer, Charles Welch, Jr., Arts	*Southwest Harbor*	36 Grove Street
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, Fy.	*Bolton, Mass.*	384 College Road
Sedgeley, Armand Clarence, Ce.	*Ridlonville*	17 Margin Street
Segal, Louis, Ee.	*Bangor*	Essex Street, Bangor
Selmer-Larsen, Johan, Jr., Me.	*Marblehead, Mass.*	403 H. H. Hall
Shaw, Richard Harmon, Agr.	*Sanford*	402 Oak Hall
Shepard, Frederick Johnson, III, Me.	*West Newton, Mass.*	411 Oak Hall
Simons, Lee, Arts	*Brookline, Mass.*	405 H. H. Hall
Sinkinson, Richard, Arts	*Saylesville, R. I.*	411 H H. Hall
Sinnett, Clifford Henry, Arts	*Portland*	380 College Road
Sleeper, Sylvia Louise, Arts	*Bangor*	426 Garland Street, Bangor
Smiley, Samuel Perry, Fy.	*Waterville*	304 H H. Hall
Smith, Arthur Warren, Ee.	*Richmond, Va.*	60 Park Street
Smith, Bernard Raymond, Agr.	*Mars Hill*	309 Oak Hall
Smith, Paul, Arts	*Bangor*	345 Hancock Street, Bangor
Snell, Daniel Tozier, Ch.Eng.	*Gorham*	411 Oak Hall
Soderberg, Robert Howes, Fy.	*Hartford, Conn.*	310 H. H. Hall
Solie, Joanne Marie, He.	*Dixfield*	The Elms
Southard, Harris Brooks, Me.	*Bangor*	35 Forest Avenue, Bangor
Spear, Cynthia Belle, He.	*Lisbon Falls*	North Hall
Springer, Mary, He.	*Portland*	The Maples
Springer, Winnifred Audrey, Arts	*Danforth*	59 College Road
Stackpole, Miner Batchelder, Ce.	*Augusta*	207 Oak Hall
Stairs, Carroll Arthur, Agr.	*Orono*	13 Middle Street
Standish, Bret Martin, Arts.	*Baldwin, N. Y.*	101 H. H. Hall
Starrett, Robert McLean, Ch. Eng.	*Friendship*	3 Park Street
Staub, Walter Mitchell, Ch.Eng.	*Valleyfield, Que., Canada*	33 Bennoch Street
Stearns, Roger Edwin, Me.	*Bar Harbor*	204 H. H. Hall
Stevens, Gerald Charles, Agr.	*Fort Fairfield*	301 H. H. Hall
Stevens, Natalie Marion, Arts	*Bangor*	68 Boutelle Road, Bangor
Stewart, John Charles, Ch.Eng.	*Brookline, Mass.*	206 H. H. Hall
Stickney, Wendell Hayward, Me.	*Brownville*	144 College Road
Stratton, Richard Earle, Ce.	*Reading, Mass.*	304 H. H. Hall
Stritch, Marjorie Edith, Arts	*Sanford*	The Elms
Strout, Warren Greenleaf, Arts	*Dexter*	308 H. H. Hall

Sturgis, David William, Jr., Me.	*Gorham*	15 Park Street
Sullivan, Walter Leeman, Ch.Eng.	*Portland*	406 H. H. Hall
Supovitz, Stanley Shepard, Arts	*Lewiston*	201 H. H. Hall
Swanson, Eleanor Josephine, Arts	*Brewer*	5 Washington Street, Brewer
Swett, Nathaniel Fosdick, Jr., Ch.Eng.	*West Somerville, Mass.*	301 H. H. Hall
Talbot, Philip Henry, Jr., Agr.	*Portland*	112 H. H. Hall
Tarr, Mary Lenora, Arts	*Baltimore, Md.*	The Maples
Taverner, Donald Vardy, Arts	*Augusta*	University Cabin
Taylor, Frank Elmer, Fy.	*Bridgeport, Conn.*	311 H. H. Hall
Tebbets, Claire Marian, Arts	*Locke Mills*	North Hall
Thomas, John Eddy, Arts	*Schenectady, N. Y.*	115 Main Street
Thompson, Berneice Edith, He.	*West Enfield*	The Maples
Thurlow, Everett Beach, Agr.	*Lee*	88 Park Street
Titcomb, Alton Vernon, Agr.	*Houlton*	81 Mill Street
Tondreau, Evelyn Georgianna Olive, Arts	*Brunswick*	The Elms
Tooley, Gordon Kenneth, Fy.	*Greenwich, Conn.*	203 Oak Hall
Torrey, Charlotte Marie, Arts	*Bangor*	104 Royal Road, Bangor
Torrey, Guy Ellicott, Arts	*Bar Harbor*	312 Oak Hall
Tozier, Enid Frances, He.	*Solon*	39 Washington Street, Brewer
Twitchell, Rachel Iva, He.	*Bryant Pond*	North Hall
VanTassell, Hazel Marie, Arts	*Houlton*	160 Stillwater Avenue, Old Town
Varnam, Leonard Eaton, Agr.	*Steep Falls*	3 Park Street
Varney, Willard Patrick, Ch.Eng.	*Bangor*	104 Third Street, Bangor
Verrill, Marjorie Rebecca, Arts	*Winterport*	Campus
Viles, Frederick Marshall, Me.	*Skowhegan*	307 Oak Hall
Walden, Edwin Schuyler, Me.	*Greenville*	211 H. H. Hall
Walker, Bette Jane, He.	*Presque Isle*	The Maples
Ward, Gerald Madison, Agr.	*Thorndike*	25 Grove Street
Ward, Lowell Ellwood, Ee.	*Brighton*	209 H. H. Hall
Warren, Wallace Flagg, Agr.	*Newport*	206 Oak Hall
Watson, Carlisle Vives, Jr., Ee.	*Auburn*	104 H. H. Hall

Watson, George Albert, Ee.	*Wilton*	302 H. H. Hall
Weare, James Leavitt, Ce.	*Cape Neddick*	3 Park Street
Webb, Bette Moseley, Arts	*Winthrop*	The Elms
Webbley, Doris Louise, Arts	*Augusta*	The Maples
Webster, John Peters, Arts	*Bangor*	435 Union Street, Bangor
Weidman, George Robert, Fy.	*Providence, R. I.*	380 College Road
Weinstein, Milton, Arts	*Bangor*	55 Parkview Avenue, Bangor
Weisman, Robert Harry, Arts	*Portland*	12 Pleasant Street
Welch, Walter Raynes, Fy.	*Rumford*	404 H. H. Hall
West, Clifford Harry, Jr., Arts	*Bangor*	146 Elm Street, Bangor
Weymouth, Joanne Hale, Arts	*Howland*	The Maples
Wheeler, Donald Battye, Arts	*Danvers, Mass.*	201 Oak Hall
White, David Walter, Jr., Ch.	*Topsham*	Stillwater
White, Lois Evelyn, He.	*Augusta*	The Maples
Whiteley, Harold William Hanson, Agr.	*Limerick*	9 Forest Avenue
Whitman, Esther Lillian, Arts	*Dover-Foxcroft*	The Elms
Whitney, Harold Earl, Fy.	*Salisbury, Vt.*	17 Margin Street
Whitney, Nellie Marie, Arts	*East Corinth*	The Maples
Wilbur, Oscar Milton, Jr., Ch.Eng.	*Cape Cottage*	304 Oak Hall
Wilcox, Frances Rita, Arts	*Portland*	North Hall
Willets, Seth Barrows, Me.	*Roslyn, N. Y.*	405 Oak Hall
Williams, Charles Henry, Ee.	*Fort Fairfield*	Park Street
Wilson, John Merrill, Fy.	*Lynn, Mass.*	412 H. H. Hall
Wilson, Kermit Blanchard, Me.	*South Paris*	110 Oak Hall
Wilson, Ruth Augusta, He.	*Madison*	North Hall
Wise, Neota Marguerite, He.	*Guilford*	The Elms
Witham, Hubert Elwin, Me.	*Skowhegan*	310 Oak Hall
Woodman, Edward Buxton, Me.	*Stonington*	395 College Road
Woodward, Edward, Me.	*Providence, R. I.*	309 H. H. Hall
Wooster, Harry Macomber, Eng.	*Old Town*	258 Center Street, Old Town
Worrick, Robert Clifton, Fy.	*Wellesley, Mass.*	310 H. H. Hall
Worthen, Mary Ellen, Arts	*St. Albans*	96 Forest Avenue, Bangor
Wright, Helen Nancy, Arts	*Wellesley, Mass.*	The Maples
Wright, Kenneth Fernald, Arts	*Westbrook*	110 H. H. Hall
Youlden, Richard Howard, Ge.	*Needham, Mass.*	309 H. H. Hall
Young, Joseph Andrews, Fy.	*Corea*	College Road

Young, Keith Edmond, Fy.	*Portland*	University Cabin
Young, Norman Belmont, Me.	*Hancock*	College Road

SPECIALS

Allen, Charles Donald, Arts	*Cape Cottage*	210 Oak Hall
Anderson, Clayton Oliver, Eng.	*Cape Elizabeth*	Φ Γ Δ House
Bell, George Louis, Hy. & Gt.	*Bangor*	25 Hudson Street, Bangor
Blaisdell, Tedford Madison, Me.	*Augusta*	Σ X House
Bowers, Ruth Wilma, Bt. & En.	*Orono*	51 Pine Street
Boardway, Walker Fred, Ch.	*Stillwater*	Stillwater
Brown, Samuel Houston, Fy.	*Philadelphia, Pa.*	7 Summer Street
Burns, John Wesley, Ph.	*Union*	College Road, Star Route
Carr, George Raymond, Eng.	*Plattsburg, N. Y.*	14 Middle Street
Constantine, Harry James, Arts	*Bangor*	31 Winter Street, Bangor
Corbin, Charles Milton Lewis, Jr., Pa.	*Woodlyn, Pa.*	151 Park Street
Dow, William MacAdam, Arts	*Portland*	Commons
Elwell, Robert Arthur, Ph.	*Gorham*	University Cabin
Franck, Mark Eloi, Ed.	*Frenchville*	119 Mill Street
Gifford, William Edward, Eng.	*Bangor*	240 State Street, Bangor
Gilbert, Eugene Clarence, Eng.	*Winterport*	Σ A E House
Hagensen, Philip Leonard, Ce.	*Bangor*	38 Sixth Street, Bangor
Kinne, Harry Cessford, Pa.	*Watertown, N. Y.*	46 College Road
Neal, Allan Johnson, Jr., Agr.	*Bangor*	A T Ω House
Nowell, Carleton Wayne, Eng.	*York Village*	A X A House
Nye, Dana Hammond, Eng.	*Waterbury, Conn.*	A T Ω House
Pierce, Philip Nason, Eng.	*Gardiner*	A T Ω House
Pruett, Kenneth Sherwood, Ed.	*Kittery*	Φ M Δ House
Sawyer, Haven, Jr., Eng.	*Bangor*	Σ A E House
Scanlin, Millicent Preissel, Ed.	*Newport*	Newport
Seabury, Edwin Morey, Eng.Ps.	*Orono*	27 Middle Street
Stanton, Harold Troutt, Eng.	*Bath*	Φ K Σ House
Taylor, Mark Albert, Me.	*Newport*	Stillwater
Thurston, Frederick Clark, Eh.	*Bangor*	20 Adams Street, Bangor
Upcott, Dorothy Lavinia, Py.	*Orono*	20 Forest Avenue
Wetherbee, William Howard, Dr.	*Corvallis, Ore.*	54 Pine Street
Whitener, Ernest Karl, Jr., Pa.	*Gastonia, N. C.*	33 Bennoch Street
Willey, Baxter Leone, Ch.Eng.	*Cherryfield*	241 Center Street, Old Town
Winter, Alan John Day, Pa.	*Kingswood, Surrey, Eng.*	55A Bennoch Street

Woodward, Homer Clay, Eng.	*Newport*	A T Ω House
Yates, Clifford Thomas, Pa.	*Mildura, Australia*	103 Oak Hall

TWO-YEAR COURSE IN AGRICULTURE

First Year

Abbott, Hugh Warren	*West Paris*	25 Grove Street
Akeley, Roger Pierson	*Presque Isle*	12½ Pleasant Street
Bolstridge, Leslie James	*Corinna*	25 Grove Street
Boudreau, Edmund Herbert	*Bangor*	44 Forest Avenue, Bangor
Bubar, Ivan Bliss	*Littleton*	25 Grove Street
Chadwick, John Harold	*Houlton*	302 Oak Hall
Choate, Edward Carlile	*Portland*	40 College Road
Collins, Frank Appleton	*Rutherford, N. J.*	109 H. H. Hall
Cox, Edward Glidden, Jr.	*Brooks*	7 Kell Street
Dunn, Charles Eldridge	*Wallingford, Conn.*	100 North Main Street
Ferry, Harold Eugene	*Newport*	25 Grove Street
Gay, Clayton Helier	*Cherryfield*	25 Grove Street
Grant, Robert Hutchinson	*Silver's Mills*	107 Oak Hall
Harlow, Richard Fessenden	*Hyde Park, Mass.*	102 H. H. Hall
Hartley, Ralph Robertson	*Bridgewater*	303 H. H. Hall
Hutchinson, Lewis	*Cumberland Mills*	7 Kell Street
Ireland, Winston Bruce	*Fort Fairfield*	55 South Brunswick Street, Old Town
Jellison, Gerald Earle	*Bangor*	279 Essex Street, Bangor
Kennedy, Richard Edward	*Monmouth*	14 Kell Street
Kinney, Harold Arthur	*Easton*	406 Oak Hall
Lancaster, Horace Smith	*Bowdoinham*	305 H H. Hall
Pepper, Abraham	*Orono*	12 Pleasant Street
Philbrick, Charles Blaisdell	*Corinna*	College Road, Star Route
Saunders, Arthur Snow	*South Blue Hill*	Kell Street
Stewart, Donald Mason	*Bangor*	40 Third Street, Bangor
Swett, Charles Reginald	*Mattawamkeag*	38 Oak Street
Thomas, Walter Clyde	*Westfield, N. J.*	401 H. H. Hall
Titcomb, Edward Payson	*Littleton*	25 Grove Street
Wright, Frank Moore, Jr.	*Sebago*	301 H. H. Hall
Young, Philip Stanley	*Gorham*	25 Grove Street

Second Year

Baker, Philip George	*Orono*	106½ North Main Street
Bessom, Edward Anthony	*South Orleans, Mass.*	A T P House
Cunningham, Judson Bradford	*Patten*	38 Grove Street
Dahlin, Russell John	*Caribou*	88 Park Street
Emery, Edwin Black	*Limington*	A T Ω House
Fletcher, Amos Harold	*Caribou*	K Σ House
Hardy, William Robert	*Hope*	25 Grove Street
Hawkes, Ronald Morrill	*Gorham*	Σ A E House
Holman, Arlie Bucknam	*Mexico*	A T P House
Mayo, Richard Goodwin	*Brewer*	137 Wilson Street, Brewer
Pottle, Maurice Allen	*Lincolnville*	25 Grove Street
Randall, Halston Blackstone	*Caribou*	60 Park Street
Rankin, Earle Alfred	*Melrose, Mass.*	80 Mill Street
Spalding, James Herbert, Jr.	*Balboa Heights, C. Z.*	Θ X House
Wallace, Robert David	*Limerick*	9 Forest Avenue
Woods, Alan Fairbank	*West Hartford, Conn.*	430 College Road
York, Donald Colby	*Windsorville*	A T P House

SPRING SEMESTER, 1940

New Registrations

Graduate Students

Gibbons, Mary Margaret, B.A., Eh. Wellesley, 1935	*Bangor*	Hudson Road, Bangor
Oliver, Velma Katherine, B.A., M.A., Eh. Maine, 1925, 1938	*Dexter*	South Hall
Sibley, Charles Byron, B.S., By. Maine, 1937	*Stillwater*	Stillwater
Stevens, Joyce Cheney, B.A., Sh. Maine, 1935	*Orono*	3 University Place
Warner, Beryl Elisabeth, B.A., Ms. Maine, 1935	*Bangor*	192 Fourteenth Street, Bangor

Seniors

Alley, John Chase, Fy.	*Portland*	Φ H K House
Babcock, Dorothy Eleanor, Ed.	*Bangor*	67 Mill Street
Buck, Mary Ellen, He.	*Monticello*	Home Management House
Goud, Allan Frederick, Es.	*Augusta*	Θ X House
Sawyer, Neil Gould, Py.	*Easton*	36 Grove Street
Trask, Allen Dudley, Ch.Eng.	*Melrose Highlands, Mass.*	Σ X House

Juniors

Beverage, Ray Jasper, Me.	*North Haven*	104 Main Street
Burney, Lawrence Edward, Fy.	*South Portland*	Λ X A House
Chapman, Mary Joan, He.	*Orono*	13 Park Street
Chapman, Mildred Lombard, He.	*Orono*	13 Park Street
Jewett, George Herbert, II, Fm.	*Bucksport*	Φ Γ Δ House
Mitchell, Sadie Ranco, He.	*Old Town*	Indian Island, Old Town
Sweet, Sherley Marcus, Hy. & Gt.	*Bar Harbor*	77 Mill Street
Wasung, Stanley Francis, Ce.	*Newark, N. J.*	3 Park Street
Wright, Samuel Judd, An.	*Clinton*	88 Park Street

Sophomores

Blackstone, Fred Jones, Jr., Ge.	*Caribou*	Δ T Δ House
Curley, John Irvine, Jr., Arts	*Rumford*	K Σ House
Lancaster, Hartwell Charles, Arts	*Old Town*	154 Stillwater Avenue, Old Town
Meserve, Philmore Windsor, Fy.	*Mechanic Falls*	Φ H K House

Freshmen

Darling, Chester Allen, Fy.	*Orleans, Mass.*	3 Park Street
Morneault, Camille Etien, Agr.	*Lille*	21A Mill Street

Specials

Backer, Grace Weil, He.	*Orono*	43 Main Street
Banks, Merton Ford, Ed.	*Bangor*	131 Maple Street, Bangor

Bowler, Charlotte Crosby, Ed.	*Bangor*	224 Nowell Road, Bangor
Brewster, Wendell Swanton, Ed.	*Dexter*	255 Center Street, Old Town
Farmer, Blaine Linwood, Me.	*Greene*	80 Pine Street
Gove, Raymond Eugene, Ed.	*Brewer*	82 Washington Street, Brewer
MacGregor, Robert Malcolm, Me.	*Plattsburgh, N. Y.*	14 Middle Street
MacLeod, Irene Gibson, Ch.	*Dark Harbor*	505 College Road
Ranco, Bertha Elizabeth, Ed.	*Old Town*	Indian Island, Old Town
Yerxa, Caroline Wright, He.	*Clinton*	380 College Road

Two-Year Course in Agriculture

First Year

Stevens, Joseph Benjamin	*Augusta*	25 Grove Street

SUMMER SESSION, 1939

Students Registered for Graduate Credit

Abbott, Helen Berry, B.S. in Ed., Fr. Maine, 1938	*Portland*
Ackerman, Nettie, B.S., Bl. Elmira, 1928	*Dobbs Ferry, N. Y.*
Adams, Ivan Edwin, A.B., Ed. Aurora, 1925	*Southwest Harbor*
Aiken, Hilda Mary, A.B., Ed. Hope, 1930	*Alexandria Bay, N. Y.*
Allen, Alden W., B.S., Ed. Colby, 1916	*Calais*
Anderson, Donald Arthur, B.S., Ed. Colby, 1932	*Kezar Falls*
Andrews, Roland Butterfield, B.S., Ed. Colby, 1928	*Lee*
Ansley, Helen B., B.S. in Ed., Hy. Temple, 1933	*Philadelphia, Pa.*
Arrand, Beatrice, B.S. in Ed., Ed. Framingham State Teachers, 1931	*Arlington, Mass.*

Averill, Louise Hunt, B.A., Ed. *Old Town*
Wellesley, 1937
Axelrod, Selma Sachs, A.B., Eh. *Brooklyn, N. Y.*
Brooklyn College, 1936
Bachman, George Nelson, A.B., Hy. *Forty Fort, Pa.*
Susquehanna, 1928
Bailey, Margery Evalyn, B.A., Ms. *Dexter*
Maine, 1925
Balcomb, Theodore R., B.S. in Ed., Hy. *Forty Fort, Pa.*
East Stroudsburg State Teachers, 1938
Banks, Merton Ford, B.S., Ed. *Bangor*
Maine, 1915
Bean, Sybil Gertrude, B.S. in Ed., Ed. *Sullivan*
Boston University, 1925
Benner, Helen Frances, B.A., Eh. *Bangor*
Maine, 1928
Blanchard, Estelle Sheldon, B.S., He. *Cumberland Center*
Maine, 1936
Brackett, Madalene, B.A., Ms. *Milo*
Maine, 1925
Brastow, Vera Estelle, B.S., He. *Brewer*
Maine, 1939
Buck, Ellsworth George, B.S., Ed. *Poland, N. Y.*
New York State Teachers College, 1933
Burnham, Eleanor Frances, B.S., He. *Bridgton*
Farmington Normal, 1935
Burtt, Kathleen Bertha, B.S. in Ed., Ed. *Fort Fairfield*
Farmington Normal, 1934
Calvert, Cora Mae, B.A., Ed. *Orono*
Maine, 1909
Canfield, Helen van Etten, B.S. in Ed., Ed. *Port Jervis, N. Y.*
New York University, 1930
Canon, Bertha Violet, B.A., Lt. *Pittsfield, Mass.*
Smith, 1912
Chamberlain, Dorothy Ella, A.B., Ed. *Red Bank, N. J.*
Dickinson, 1928
Chaplin, Joseph Benjamin, B.S., Ed. *Bangor*
Maine, 1921
Chase, Lunette Adeline, B.S. in Ed., Ed. *Stroudsburg, Pa.*
East Stroudsburg State Teachers, 1933

Chesterton, Allan Bowdoin, B.A., Ed. Maine, 1927	*Jonesport*
Christie, Lindon Edwin, B.S., Ed. Colby, 1930	*Monson*
Clark, Louise Cates, A.B., Ed. Colby, 1925	*Dover-Foxcroft*
Clement, Stanley Luther, B.S., Ed. Colby, 1932	*Newport*
Colby, Barbara, B.S. in Ed., Ed. Maine, 1937	*South Paris*
Collins, Eugene William, A.B., Eh. Villanova, 1933	*Paulsboro, N. J.*
Conley, Katharine Amanda, A.B., Eh. Beaver, 1925	*Ellsworth*
Cook, Esther Brayton, A.B., He. Bates, 1931	*New Bedford, Mass.*
Coombs, Elizabeth Marie, B.S., He. Farmington Normal, 1938	*Boothbay Harbor*
Coons, Erwin Leach, B.S., Ms. Wesleyan, 1930	*Poughkeepsie, N. Y.*
Cowdrey, Corinne, B. S. in Ed., Ed. Boston University, 1932	*Needham, Mass.*
Cox, Edwin Allerton, B.S. in Ed., Ed. Boston University, 1932	*Montague, Mass.*
Crockett, Christine May, B.S., He. Framingham State Teachers, 1935	*Tenants Harbor*
Crosby, Claire Alice, A.B., Eh. Colby, 1925	*Milo*
Croxford, Horace Alcander, B.A., Ed. Maine, 1930	*Orono*
Crozier, Edgar Raymond, B.A., M.S., Ed. Maine, 1927, 1932	*Brownville*
Cutts, Cecil Jewett, B.A., Ed. Maine, 1925	*Fairfield*
Daigle, Yvonne, B.S. in Ed., Ed. Maine, 1938	*Augusta*
Dayharsh, Elizabeth Lee, A.B., Ed. Syracuse, 1928	*Syracuse, N. Y.*
Dekin, Albert Arch, B.S., Ed. Maine, 1932	*Danforth*

Diggery, Gertrude Jessie, A.B., Eh. *Sanford*
Bates, 1932
DiPalma, Fenisia Aurora, B.A., Ed. *Brooklyn, N. Y.*
Brooklyn College, 1938
Dixon, Harold Sisly, B.S. in Ed., Ed. *Blue Island, Ill.*
Eastern State Teachers College, 1931
Dole, Francis Stone, B.S., Ed. *South Brewer*
Maine, 1925
Donald, Edmund William, B.P.E., Ed. *Troy, N. Y.*
Springfield College, 1921
Dorr, Frank Edward, A.B., Ed. *East Orland*
Bates, 1925
Dow, Vivian Jennie, B.A., Ed. *Stillwater*
Maine, 1936
Drisko, Clarence Holmes, B.S., Ed. *Bangor*
Maine, 1921
Dwyer, Lawrence Wendell, A.B., Ed. *Hermon*
Colby, 1938
Dyer, Caleb Ford, B.S., Ed. *Dover-Foxcroft*
Bowdoin, 1930
Eaton, Stanley Boyd, B.S., Ed. *Howland*
Maine, 1931
Elliott, Linwood Shaw, B.S., Hy. & Gt. *Portland*
Maine, 1932
Factor, Oscar, B.S. in Ed., Hy. *New York, N. Y.*
City College of New York, 1938
Farrell, Duncan Henry, B.S., Ed. *Bath*
Springfield College, 1935
Fife, Erna Jonas, A.B., A.M., Ms. *New York, N. Y.*
Barnard, 1931; Columbia, 1932
Fife, Herzl Bernard, A.B., A.M., Py. *New York, N. Y.*
New York University, 1931; 1933
Finley, Raymond Stevens, B.A., Ed. *Pittsfield*
Maine, 1925
Flynn, James Hammond, B.A., Ms. *Machiasport*
Maine, 1938
Flynt, Willard Curtis, A.B., Ed. *Oakfield*
Colby, 1934
Footit, Marie Theresa, B.Ed., Ed. *Middletown, Conn.*
Teachers College of Connecticut, 1936

Foss, Eleanor Frances, B.A., Ed. *Melrose, Mass.*
Wheaton, 1936
Gallagher, Thelma Wanetta, B.S., He. *Caribou*
Farmington Normal, 1937
Gillis, Hugh Allen, B.S., Es. *Lincoln*
Maine, 1939
Gleason, Eleanor Mary, S.B., Zo. *Wakefield, Mass.*
Simmons, 1932
Goggin, Mary Elizabeth, B.A., Hy. *Vernon, N. Y.*
Keuka, 1930
Gonzales, Florence Marie, B.S. in Ed., Eh. *Hoboken, N. J.*
Fordham, 1939
Goodwin, Merle Stanley, B.S. in C. Ed., *Wethersfield, Conn.*
Ed.
Maine, 1937
Gove, Guy Harold, B.S., Ed. *Brewer*
Bates, 1913
Graber, Joseph Homer, B.S., Ed. *Chester, Pa.*
Pennsylvania State College, 1910
Grant, Gardner Coffin, B.A., Ed. *Cherryfield*
Maine, 1937
Groff, Mary Spotten, B.A., Eh. *Columbia, Pa.*
Lebanon Valley, 1934
Guyette, George Francis, Ph.B., Ed. *Woonsocket, R. I.*
Brown, 1928
Harlow, Robert Lowe, B.S., Ed. *Fairfield*
Colby, 1930
Hickey, John Henry, B.Ee., Ed. *Jersey City, N. J.*
Catholic University, 1932
Hicks, Charles Chester, A.B., Es. *Columbia Falls*
Colby, 1931
Higgins, Errol Verlane, B.A., Ed. *Mapleton*
Maine, 1934
Higgins, Leslie Alonzo, B.S. in Ed., Ed. *Bar Harbor*
Maine, 1933
Hilton, Ethel Mary, B.S., He. *Athens*
Maine, 1932
Hinkley, Ruth Constance, B.A., Eh. *Brewer*
Maine, 1936
Howe, Inez Lubel, B.A., Eh. *Bryant Pond*
Maine, 1933

Hughes, Arvilla Jane, A.B., Eh. *Punxsutawney, Pa.*
Allegheny, 1934
Hunt, Elizabeth Louise, A.B., Ed. *Hebron*
Bates, 1937
Hunter, Helen Heyd, A.B., Es. *Freeport, N. Y.*
Adelphi, 1931
Hussey, Mary Lucia, A.B., Ed. *Mars Hill*
Wheaton, 1939
Husson, Chesley Haywood, B.S. in Ed., *Bangor*
M.S. in Ed., Es.
Salem State Teachers, 1926; Maine, 1939
Husson, George Edwin, B.S. in Ed., Ed. *Lynn, Mass.*
Salem State Teachers, 1935
Ingraham, Ruth Marion, B.S., Ed. *West Claremont, N. H.*
Keene State Teachers, 1934
Jaffe, Herbert, B.Ed., Ed. *New Britain, Conn.*
Teachers College of Connecticut, 1937
Jenkins, William Henry, B.S. in Ed., Ed. *Fort Fairfield*
Maine, 1921
Johnson, Joyce Hope, B.S., He. *Brownville Junction*
Farmington Normal, 1938
Johnson, Marada Lucy, B.S., M.S., He. *Pittsfield*
Maine, 1927; Cornell University, 1931
Jones, Kenneth Gordon, A.B., Ed. *Brewer*
Bates, 1935
Jones, Merle Sewall, B.S., Ed. *Liberty*
Maine, 1935
Keirstead, Kathryn Jean, B.A., Ed. *Westfield*
Maine, 1931
Knight, Evelyn Bertha, B.S., Ed. *Westbrook*
Farmington Normal, 1937
Koory, Louise Helen, B.S., Ed. *Malone, N. Y.*
New York State College for Teachers, 1932
Langdon, Irene Margaret, A.B., Hy. *Kittery*
Boston University, 1935
Laverty, Merton Everett, B.S., Ed. *Hebron*
Colby, 1923
Laurie, Christabel Finley, B.Ped., Ed. *Brewer*
Maine, 1926
Leavitt, Charles Ralph, B.S. in Ed., Ms. *West Enfield*
Maine, 1939

Leighton, Melvin Theodore, B.S. in Ed., Ed. — *Bangor*
Maine, 1939

Littlefield, Sarah Wells, B.S., He. — *Brewer*
Maine, 1938

Loud, Eleanor Beal, S.B., He. — *Rockland, Mass.*
Simmons, 1931

Loveitt, Rosella Adeline, B.A., Hy. & Gt. — *South Portland*
Maine, 1930

McGrath, George Edward, B.S., Ed. — *Ware, Mass.*
Notre Dame, 1935

McKeen, Earle Alton, B.S., Ed. — *Ashland*
Colby, 1929

McKenney, Leroy Nelson, B.A., Ed. — *Duxbury, Mass.*
Maine, 1920

McKinney, Ruth Elizabeth, B.S., He. — *Lake Ariel, Pa.*
Pennsylvania State College, 1937

McLaughlin, Ruth Helen, B.S. in Ed., Hy. — *Washburn*
Maine, 1938

McMahon, Helen Mary, B.S., Ed. — *West Haven, Conn.*
Tufts, 1922

MacLaughlin, Christine Marie, B.A., Py. — *Malden, Mass.*
Maine, 1927

Matthews, Rachel, B.A., Ed. — *Hampden Highlands*
Maine, 1930

Merrifield, Mildred Ellis, B.A., Ed. — *Washington*
Maine, 1931

Merritt, Avis Edna, A.B., Eh. — *Presque Isle*
Colby, 1935

Mildram, Doris Evelyn, B.S.E., Ed. — *Greenwood, Mass.*
Boston University, 1928

Miller, Louise Brookes, B.A., Ed. — *Orono*
Bethany, 1931

Miller, Rose Mary, B.S., Ed. — *Groton, Vt.*
Middlebury, 1933

Moore, Christine Mary, B.S., He. — *Prospect Park, Pa.*
Drexel Institute, 1938

Moore, Luther Franklin, Jr., A.B., M.A., Ed. — *Glens Falls, N. Y.*
Stanford, 1929; 1931

Morrison, George Ira, B.S. in Ed., Ed. *Perry*
Maine, 1936
Morse, Dorothy Lucile, B.S. in Ed., Ed. *Jay*
Boston University, 1936
Moynihan, Estelle Margaret, B.A., Eh. *Northfield, Minn.*
Minnesota, 1914
Mullaney, Ellen Mary, B.A., Ed. *Bangor*
Maine, 1930
Munyan, Viola Iydelle, B.S. in Ed., Ed. *Salem, Mass.*
Framingham State Teachers, 1930
Murtha, George Lester, A.B., Ed. *New Britain, Conn.*
Southern College, 1930
Myers, Frank William, B.A., Hy. & Gt. *Old Town*
Maine, 1935
Neal, Elsie Doris, B.S. in Ed., Eh. *Lynn, Mass.*
Salem State Teachers, 1935
Newell, Harry Sevey, A.B., Pa. *Orono*
Bates, 1921
Nolan, Mary Esther, B.S.C., Es. *Utica, N. Y.*
New York State Teachers College, 1935
Nutter, Jennie Louise, A.B., Hy. *Fairfield*
Colby, 1926
Nutting, Theodore Ernest, B.A., Ed. *Vinalhaven*
Maine, 1932
Parker, Eleanor Marie, B.A., Lt. *Ansonia, Conn.*
New Rochelle, 1931
Parsons, Frederick Henry, B.A., Ms. *Snyder, N. Y.*
Maine, 1925
Patterson, Hazel Elizabeth, B.S., Ed. *Vassalboro*
Farmington Normal, 1931
Perfetti, Carmella Mary, B.A., Rl. *Ansonia, Conn.*
Albertus Magnus College, 1936
Perkins, Bernard Gordon, B.A., Ms. *Orono*
Maine, 1937
Perkins, Henry Girard, B.S., Ed. *West Brooksville*
Maine, 1925
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
Pineo, Ruth, A.B., Eh. *Milo*
Colby, 1931

Pope, Gardner Chase, A.B., Ed. *East Machias*
Bowdoin, 1934
Powell, Floyd Llewellyn, B.S. in Ed., Ed. *Pittsfield*
Maine, 1935
Pratt, Laura Estelle, B.Ped., Ed. *Troy*
Maine, 1925
Preston, Nathalie Frances, B.S., He. *Sanford*
Farmington Normal, 1932
Prince, Margaret Melvina, A.B., Ed. *Sabattus*
Bates, 1937
Pulling, Anne Dorland, A.B., Fr. *Cayey, Puerto Rico*
New York State College for Teachers, 1925
Randall, Adeline Gertrude, B.E., Ed. *Woonsocket, R. I.*
Rhode Island College of Education, 1930
Reary, Arthur Robert, B.S., Ed. *Boyertown, Pa.*
Shippensburg State Teachers, 1933
Reary, Hilda Schwenk, Ph.B., Ed. *Boyertown, Pa.*
Muhlenberg, 1934
Reed, Carl Eugene, B.S., Ed. *Island Falls*
Colby, 1935
Riley, Clyde Elwood, A.B., Ed. *Westboro, Mass.*
Colby, 1927
Ripley, Lucinda Elizabeth, B.A., Pb. *South Paris*
Maine, 1935
Rivenburg, Russell Rhodes, B.S. in Ed., Ed. *Clifford, Pa.*
Mansfield State Teachers, 1932
Rowe, Mary Ellen, A.B., Ed. *West Minot*
Bates, 1935
Ryan, Rosemary Patricia, B.S. in Ed., Hy. *Westfield, Mass.*
Westfield State Teachers, 1936
Sargent, Abby Louise, B.A., Ed. *Sargentville*
Maine, 1932
Schmitt, Leonard John, A.B., Ed. *New Britain, Conn.*
Kentucky Wesleyan, 1931
Seavey, Barbara Eunice, B.S. in Ed., Hy. *Bangor*
Maine, 1939
Scribner, Josephine Clark, A.B., Ed. *Newport*
Colby, 1908
Sherman, Ivan Cecil, B.A., Eh. *Union*
Maine, 1932

Shibles, Perry Foster, B.S., Ed. *Dover-Foxcroft*
Colby, 1927
Shuster, Olive May, B.S. in Ed., Ed. *Newtown, Pa.*
East Stroudsburg State Teachers, 1937
Simmons, Dana Maxwell, B.S., Ed. *Orono*
Colby, 1931
Skidds, Albert Leroy, A.B., Ed. *Jonesboro*
Colby, 1933
Smith, Geneva May, B.S. in Ed., B.A., Ms. *East Corinth*
Boston University, 1924; Maine, 1931
Smith, Janette Winslow, S.B., He. *Bath*
Simmons, 1929
Smith, John Harold, B.A., Ed. *Caratunk*
Maine, 1928
Smith, Ralph Stanley, A.B., Ed. *Carmel*
Bowdoin, 1930
Snare, Josephine Weick, B.A., *Hampden Highlands*
Maine, 1937
Spalding, Edward Lewis, B.S., Ed. *Newburyport, Mass.*
Maine, 1935
Stebbings, Winnifred Goodwin, B.S. in Ed., *St. John, N. B., Canada*
Eh.
Boston University, 1936
Stevens, Margaret Faustena, S.B., He. *Rockland*
Simmons, 1934
Stover, Marion Dinsmore, B.S., He. *South Portland*
Farmington Normal, 1938
Stults, Verna Henrietta, B.S., Ed. *Portland*
Farmington Normal, 1934
Swan, Robert Girtin, B.S., Ed. *Warrensburg, N. Y.*
Springfield College, 1934
Sylvester, Flora Stone, B.S., He. *Fort Fairfield*
Maine, 1935
Tarbox, Fred August, B.S., Ed. *Calais*
Colby, 1923
Thompson, Marjorie Evelyn, B.S., He. *Biddeford*
Maine, 1938
Thorndike, Margery Smith, S.B., He. *Skowhegan*
Simmons, 1914
Tibbetts, Margaret Alice, B.Ped., Ed. *East Winthrop*
Maine, 1923

Tripp, Jennie Gladys, B.S. in Ed., Hy. *Hempstead, N. Y.*
Boston University, 1926
Violette, A. Genevieve, B.A., M.A., Ed. *Milford*
Maine, 1921; 1924
Vose, Edward Rich, B.S., Ms. *Miami, Fla.*
Maine, 1930
Wakefield, Vachel Lindsay, A.B., Hy. *Bangor*
Hiram, 1930
Walker, Carleton Leslie, A.B., Ed. *Middletown, Conn.*
Bates, 1923
Wall, Adelaide Murrell, M.S., Ed. *Bangor*
Pittsburgh, 1936
Wall, Lillian Frances, B.A., Ed. *Bangor*
Maine, 1934
Ward, Frederick George, B.S., Ed. *Sharon, Mass.*
Norwich, 1933
Waterhouse, Frank Chester, B.A., Ed. *Old Town*
Maine, 1933
White, Marjorie, A.B., Ms. *Newport*
Bates, 1918
White, Mildred Osborne, B.A., Ed. *Danielson, Conn.*
Maine, 1925
White, Ralph Rochefort, B.A., Ed. *New Haven, Conn.*
Wesleyan, 1931
White, Sidney Parmenter, A.B., Ed.M., Lt. *Ashby, Mass.*
Middlebury, 1937; Fitchburg State Teachers, 1938
Whitesides, Janie Elizabeth, B.C.S., Ed. *Gastonia, N. C.*
Rider College, 1933
Whitney, Louise Sterling, B.S., Ed. *Silver Spring, Md.*
Boston University, 1934
Whitney, Sprague Rufus, B.C.S., B.S., Ed. *Livermore Falls*
Northeastern University, 1920; Maine, 1926
Wilhelm, Elizabeth Anne, B.A., Hy. *Chicago, Ill.*
Maine, 1929
Williams, Warren Thurston, B.S., Ed. *Carmel, N. Y.*
New York University, 1939
Woolweaver, Herbert Edward, B.S., Ed. *Sidney, Ohio*
Ohio University, 1930
Wortman, Perry Gilbert, B.S., Ed. *Greenville*
Colby, 1933

Youdelman, Martin Jacques, B.C.S., B.S., LL.B., Ed. *Brooklyn, N. Y.*
New York University, 1923; 1929;
Brooklyn Law School, 1936

STUDENTS AT MARINE BIOLOGICAL STATION, LAMOINE

Deane, Helen Wendler, B.A., Zo. *Springfield, Mass.*
Wellesley, 1938
Durick, Rosemary Beatrice, B.A., Zo. *Newcastle, N. B., Canada*
University of New Brunswick, 1938
Hodges, Arthur Webster, Jr., B.A., Zo. *Newton Center, Mass.*
Maine, 1938
Kroll, Henry Michael, A.B., Zo. *New York, N. Y.*
Clark, 1938
Topping, Francis Lawrence, B.A., Zo. *Millbridge*
Maine, 1935
Wolf, Leonard Nicholas, B.S., M.S., Ph.D., Bl. *McKeesport, Pa.*
Saint Vincent College, 1933;
Pittsburgh, 1934; 1939

OTHER SUMMER SESSION STUDENTS, 1939

Abbott, Clark Luce, B.A. *Kingfield*
Maine, 1933
Abbott, Linwood Austin *Brewer*
Ackerman, Sylvia Irene *Dumont, N. J.*
Adams, Luella Miranda, A.B. *Springfield, Vt.*
Mount Holyoke, 1910
Allen, Donald Paine, B.S., M.A. *Saco*
Bowdoin, 1938; Columbia, 1939
Anderson, Dorothy Louise *New London, Conn.*
Anderson, Mildred Martha E. *Hartford, Conn.*
Armstrong, Dorothy Jane *South Manchester, Conn.*
Ashley, Guy Lamonte *Westfield, Mass.*
Ashmore, Marion Louise *Collingswood, N. J.*
Atwater, Frances Priscilla *Bangor*
Bachelder, Edwin Albert *Gorham*

Bailey, Geraldine Long, A.B., A.M. Colorado College of Education, 1912; Columbia, 1916	*Tulsa, Okla.*
Bailey, Woodrow Franklin	*Lincoln*
Baker, Elizabeth Walt	*South Hadley, Mass.*
Ballou, Lance Chaffee, Jr.	*Wakefield, Mass.*
Barber, Samuel Richard	*Carolina, R. I.*
Barker, Charles Leroy	*Mechanic Falls*
Barrett, Matthew Francis	*Danforth*
Batchelder, Clayton Everett	*Saylesville, R. I.*
Beaton, Nellie Peabody	*Reading, Mass.*
Bellinger, Louise	*Waycross, Ga.*
Bendheim, John Monroe	*New York, N. Y.*
Berry, Grace Gibbs	*State College, N. M.*
Bertels, Barbara, B.A. Maine, 1937	*Bangor*
Bissell, Eleanor Louise	*Bangor*
Blackwood, Harold Frank, A.B., LL.B. Maine, 1923; Boston University, 1926	*West Pembroke*
Blanchard, Lawrence Russell, A. B. Colby, 1938	*Rockland, Mass.*
Bolduc, Sister St. Teresa of Jesus	*Biddeford*
Bolton, Effie Davis	*Dover-Foxcroft*
Bouch, Barbara Elaine	*Brewer*
Bouchard, Albert James	*Caribou*
Bourgoin, Louis Joseph	*Frenchville*
Bowden, Raymond Dwelley	*Rockland*
Boyce, Marguerite Mary	*Portland*
Brawn, William Sylvanus	*Islesboro*
Brinnin, John Malcolm	*Ann Arbor, Mich.*
Briscoe, Eleanor Louisa	*Orono*
Brown, Edna Carol	*Scotia, N. Y.*
Brown, Priscilla Evelyn	*Milford*
Brown, Robert Ormon, A.B. Colby, 1936	*Fairfield*
Brown, Sewall Melvin	*Bangor*
Brush, Edward Newcomb, A.B., A.M., Ph.D. Vermont, 1925; Harvard, 1926, 1932	*Orono*
Bryanton, Doris Crook	*Brewer*
Buchheit, Paul Raymond	*Trenton, Ohio*

Buck, Dorothy Allen, A.B., M.A. New York State Teachers College, 1932, 1934	*Poland, N. Y.*
Burgoyne, Dorothy Evelyn	*Howland*
Burke, M. Dorothy	*Bangor*
Burns, George Elmer	*Mexico*
Byrnes, Beatrice Regina	*Lewiston*
Canty, Maxine Elizabeth	*Brewer*
Carter, Bertha Wheeler	*Etna*
Carter, Elton Stewart	*Mapleton*
Carter, Genevieve Elizabeth	*Ellsworth*
Carver, Clifford Maxwell	*Searsport*
Cassis, Mary	*Lewiston*
Chaplin, Kera Joan, B.A. Maine, 1926	*Cornish*
Child, Mildred Frances	*Taunton, Mass.*
Chilson, Howard Fisher	*Attleboro, Mass.*
Citrin, Murray Maurice	*Portland*
Clark, Alice Elisabeth	*Carthage, N. Y.*
Clark, Frederick William, B.A. Amherst, 1932	*Meriden, Conn.*
Clark, Geraldine Ann	*Carthage, N. Y.*
Clark, Janette May	*Wilton*
Clark, Leland Verdelle, B.S. Bates, 1936	*Presque Isle*
Clark, Marguerite	*Kennebunkport*
Clark, Ruth Elizabeth	*Carthage, N. Y.*
Clator, Helen Virginia	*Wheeling, W. Va.*
Clough, Charles Henry, Jr.	*Blue Hill*
Cobb, Jean Rebecca, A.B. Colby, 1938	*Brownville Junction*
Coffin, Hazel Sharpe	*Portland*
Collins, Marian Merrill, B.E. Plymouth Teachers College, 1939	*Laconia, N. H.*
Colson, Winifred Louise	*Stockton Springs*
Compaine, Daniel Raymond	*Hartford, Conn.*
Conlon, Katherine Cecilia	*New Cumberland, W. Va.*
Connor, Alfred Merle	*Brewer*
Constance, Marguerite Mary	*Theresa, N. Y.*
Cooey, Joseph Thomas	*St. Catherines, Ont., Canada*
Corrigan, Marie Gertrude	*Wilton*
Cowan, Marian Eliza	*Montague, Mass.*

Cox, William Sylvester	*Orono*
Coy, Charles Flint	*Bronxville, N. Y.*
Crane, Frederick	*Afton, N. Y.*
Crockett, Harriette Ellen	*Dover-Foxcroft*
Curran, David John	*Boston, Mass.*
Dalzell, Margaret Elizabeth	*Unity*
Darroch, William Clifton	*Princeton*
Davies, Fred Tracy	*Sargentville*
Davies, Lawrence Webber	*Bangor*
Davies, William Ellis	*Wollaston, Mass.*
Dennison, Robert Case	*Babson Park, Mass.*
DiPalma, Mary Rose	*Brooklyn, N. Y.*
Dobbins, Helen Gertrude	*Houlton*
Downs, Nellie Blanche	*East Dover*
Drinkwater, Edna Antoinette	*Belfast*
Drisko, Frank Eugene	*Harrington*
Dumont, Muriel	*Lewiston*
Dye, Pamela Elizabeth	*Irvington, N. J.*
Dyer, Clarence Aubrey, B.S., M.A. Colby, 1930; Wesleyan, 1934	*Houlton*
Elliott, Helen Irene	*Patten*
Ellis, Ernest	*Orono*
Ely, Dorothy, A.B., A.M. Olivet, 1913; Columbia, 1919	*Brockton, Mass.*
Emmett, Stora William	*Old Town*
Estabrook, Elaine Claire	*Bangor*
Fahey, John Henry	*Bangor*
Fatherson, Ruth Editha, B.A. University of Iowa, 1935	*New York, N. Y.*
Fayle, Leslie Edwin	*Old Town*
Feinburg, Leila Ruth	*Newton Centre, Mass.*
Fellows, Miriam	*Bangor*
Ferguson, John Benjamin, Jr.	*Philadelphia, Pa.*
Fessenden, Eileen	*Harborside*
Field, Elizabeth Beverly	*Farmingdale, N. Y.*
Finnigan, William Joseph	*New Haven, Conn.*
Fisher, Beth Arolyn	*Pembroke*
Fisher, Helen Rebekah	*Sabattus*
Freeman, Nellie Kemp	*Dayton*
Fritz, Frances Flossie	*Carthage, N. Y.*
Fursman, Joseph Lake	*Schenectady, N. Y.*

Gardy, Emma Barbara, B.S. in Ed. University of Pennsylvania, 1926	*Doylestown, Pa.*
Gendreau, Rita Edythe	*North Vassalboro*
George, Ada Pauline, B.S. in Ed. Boston University, 1933	*Smyrna Mills*
Gilliland, William Lester, B.S., M.S., Ph.D. University of Washington, 1920, 1921; Massachusetts Institute of Technology, 1925	*Orono*
Gleason, Magnus C.	*Glens Falls, N. Y.*
Gleason, Wallace Fred, Jr., B.A. Maine, 1938	*South Portland*
Glugeth, Lillian Gail	*Arlington, Mass.*
Godwin, Halsted Buel	*Orono*
Goff, Ava Estelle	*Dover-Foxcroft*
Goodwin, Donald Watson	*Alfred*
Gordon, Vivian Agnes, B.S. New York State College for Teachers, 1933	*Gilboa, N. Y.*
Grant, Buford Leach	*Bangor*
Gray, Myrtle Avena	*East Pepperell, Mass.*
Greenier, Eleanor Lenora	*Dover-Foxcroft*
Grey, Una Blodget	*North Castine*
Griffin, Edna Mae	*Bangor*
Gustin, Dorothy Ida	*Bangor*
Hallett, Muriel Barbara, A.B. Colby, 1933	*Houlton*
Halliday, Harry Horn	*Newtonville, Mass.*
Hamlin, Clara Nina	*Newburg*
Hamlin, Margaret Julia	*Bethel*
Hannon, Esther Mary	*New Britain, Conn.*
Hanson, Gilbert Eugene	*Machiasport*
Hart, Ann Arlene	*South Hope*
Harvey, Ilga Frances, A.B., LL.B. Wesleyan, 1906; American Extension, 1932	*New Britain, Conn.*
Haskell, William Andrew	*Blue Hill*
Hassell, Bernice	*Sebec Station*
Hawes, Harriet Hyde	*West Somerville, Mass.*
Hayes, Prudence Elaine, B.A. Maine, 1935	*Orono*
Haynes, Mildred Hamlin	*South Waterford*
Henry, Dorothy Eleanor	*Somerville, N. J.*

Hernandez, James Carlos — *Larchmont, N. Y.*
Hersey, Rowene Elizabeth, B.A. — *Bangor*
Maine, 1923
Hewett, Mildred Annie — *Dover-Foxcroft*
Hillson, Thelma Louise — *Old Orchard Beach*
Hines, Philip Glendon — *Farmington*
Hinkley, Philip Joseph — *Westbrook*
Hogan, Medora — *Farmington*
Holmes, Clyde Bartlett, Jr. — *Belfast*
Hopper, Mabel Shirley — *Newburg*
Horton, Marian Gertrude — *Calais*
Houghton, Gertrude Hazel — *Watertown, N. Y.*
Huff, Kathleen Annis — *Sebec*
Humphries, Benjamin Shattuck — *Perry*
Hunt, Bessie Veryl, B.S. — *Oyster Bay, N. Y.*
Mansfield State Teachers College, 1935
Hunt, Kaye — *Providence, R. I.*
Hunt, William Harry — *Augusta*
Hutchins, Elbridge Leland — *Penobscot*
Jackman, Richard Wendell — *Mount Vernon*
Jackson, Clifton Walter — *Monson*
Jasner, Matthew Mitchell, B.S., M.S. in Ed. — *Philadelphia, Pa.*
University of Pennsylvania, 1926, 1939
Johnson, Mildred Ruth — *Caribou*
Johnson, Ronald Charles — *Perry*
Jones, Clyde Percival — *Bangor*
Kallman, Beatrice Barbara, B.S., M.A. — *New York, N. Y.*
College of the City of New York, 1925; Columbia, 1927
Karczmarczyk, Joseph — *Ludlow, Mass.*
Kearns, Marguerite Thornton — *New York, N. Y.*
Keef, Charles Dodge — *Vanceboro*
Keenan, Madeline Rose — *New York, N. Y.*
Kelley, Natalie Hanson — *Newport*
Kelly, Charles Edward, Jr. — *Brewer*
Kelly, Roy Ross — *Rothschild, Wisc.*
Kennard, Edith Carolyn, B.A. — *Bangor*
Maine, 1935
Kennard, Evelyn Doris — *Bangor*
Maine, 1927

Kennedy, Dana Forrest	*Milbridge*
Kinghorn, Robert Colin	*Fitchburg, Mass.*
Kirby, Harriett Clare	*Chillicothe, Mo.*
Knight, Donald Gardner	*Greenwich, Conn.*
Knight, Rhodora Thompson	*Newburg*
Knowlton, Robert Canfield	*Westbrook*
Kyle, Winifred D.	*Patten*
LaBarge, Bernard Aloysius	*Bucksport*
Larrabee, Miriam Iona	*South Windham*
Lau, Hong, M.S. University of Michigan, 1938	*New York, N. Y.*
Lawlar, John Bovaird, B.S. in Chem. Eng. Lehigh, 1935	*Easton, Pa.*
Lawrence, Charles Frye	*Harrington*
Leafe, Russell Paul	*Hamilton, Ont., Canada*
Leighton, Sara J.	*Lincoln*
Leslie, Phyllis Elizabeth	*Kittery*
Letts, Dorothy Elizabeth	*Scotia, N. Y.*
Levis, Robert Harry	*Alton, Ill.*
Libby, Frederick Andrew	*Walpole, Mass.*
Lickman, Edith Ellen	*Islip, N. Y.*
Livingston, Albion Keith	*East Corinth*
Locklin, Nellie Ruth, A.B., M.A. Boston University, 1923; Columbia, 1929	*Plymouth, Mass.*
Locsin, Manuel Vicente	*Victorias, Occ. Negros, P. I.*
Lorenzi, Romolo M.	*North Jay*
Loudon, Alexander Duncan	*Brownville*
Luckman, James Eugene, B.S. in E.E., M.A. Drexel Institute, 1935; University of Pennsylvania, 1936	*Philadelphia, Pa.*
Luckman, Mary Madeline	*Philadelphia, Pa.*
Lynch, Mary Ellen	*Bangor*
McCarthy, Frances Elizabeth	*Rumford*
McCarthy, Mary Elizabeth	*Bangor*
McCluer, Barbara Etelka	*Caribou*
McConachie, Adele J.	*Springfield, Mass.*
McCormack, Mary Medora	*White Plains, N. Y.*
McGlew, Eleanor Gertrude	*Newburyport, Mass.*
McGraw, Helen Elizabeth	*Andover, Mass.*
McGuire, Cecilia Mae	*Chatham, N. Y.*

McGuire, Mildred Eddy	*Bangor*
McKenney, David Harrison	*Jay*
McLaughlin, Ellie	*Waldoboro*
McLean, Vera Irene	*Old Town*
McNeil, Margaret Mary	*Mattawamkeag*
Mahan, Kathryn Elizabeth Alberta, B.Ed. Clark, 1938	*Worcester, Mass.*
Malkas, Francis John	*Bayonne, N. J.*
Mann, Ivie Wendell	*Hodgdon*
Marco, Helen Elizabeth	*Arlington, Mass.*
Marston, Grace Dunton	*Westbrook*
Marston, Leslie Pembrook	*Westbrook*
Marston, Margaret DeForest	*East Orange, N. J.*
Martin, Margaret Loretta	*Brockton, Mass.*
Matteson, Mildred G.	*Johnson City, N. Y.*
Mayforth, Eileen Maureen	*Glenbrook, Conn.*
Mayo, Erskine Bronson, Jr.	*Westfield, N. J.*
Meader, Ida Brackett	*Rochester, N. H.*
Meisner, Marjorie Bessie	*Medford, Mass.*
Merrill, Elizabeth Powers	*Skowhegan*
Merrill, Margaret Lander	*Skowhegan*
Metzger, Lena Barbara	*Decatur, Ill.*
Michael, Helen Woods, B.L. Ohio Wesleyan, 1911	*Sidney, Ohio*
Miles, Edward Hayden, B.S., M.A. East Stroudsburg State Teachers College, 1934; New York University, 1939	*Forty Fort, Pa.*
Miller, Austin Wallace	*Bangor*
Mitchell, Addie Prescott	*Union*
Moors, Vivian Imogene, B.A. Maine, 1933	*Orono*
Moriarty, Thomas Henry	*Concord, N. H.*
Morris, Robert Irving	*Bangor*
Moulton, Margaret	*Green Lake*
Moulton, Virginia	*Green Lake*
Murray, Greta Estelle, B.A. Colby, 1934	*Brownville Junction*
Myers, Wilbur Roland	*Bethel*
Naughton, Margaret Mary, B.A. Pennsylvania State College, 1933	*Pittsburgh, Pa.*
Nichols, Catherine Rita, A.B. New York State College for Teachers, 1929	*Oneonta, N. Y.*

Nichols, Relief Aurilla	*North Brooksville*
Nielsen, Thore M. R.	*Lier, Norway*
Nolan, John Harrison, A.B. Harvard, 1939	*Springfield, Mass.*
Noling, Flora Louise	*South Orange, N. J.*
Norton, Eleanor Maralee	*Springfield, Mass.*
O'Brien, Jeanne Marie	*Jersey City, N. J.*
Ohnesorge, Louise Maxine	*Kennebunkport*
Olsson, Eileen Dorothy	*Harmon, Ill.*
Overlock, E. Burnell	*Saylesville, R. I.*
Page, Leonard Cleveland	*Brewer*
Palm, Helen Eleonora	*Milford, Mass.*
Palmer, Rose Mary, LL.B. St. Lawrence, 1916	*New York, N. Y.*
Pattee, Barbara Elizabeth, B.E. Plymouth Teachers College, 1939	*Plymouth, N. H.*
Patterson, Pauline Elizabeth	*Presque Isle*
Peirce, Florence Haynes	*Bangor*
Penney, June Elizabeth	*Bangor*
Perry, Anne Elizabeth	*Bangor*
Perry, Clarence Henry Merrill	*Hartland*
Peters, Frederick Vincent, B.S. in Ed. New York University, 1932	*Dexter*
Peters, Mae Eileen	*Decatur, Ill.*
Phelps, Frank VanRensselaer	*New York, N. Y.*
Pinette, Marion Etta	*Waterville*
Pinkham, Thomas Sears	*Fort Kent*
Place, Charles Hyatt, A.B. Colgate, 1939	*New Rochelle, N. Y.*
Plummer, Bess Taylor, B.A. Minnesota, 1905	*Minneapolis, Minn.*
Poirier, Mamie (Sr. Mary Theophane)	*Biddeford*
Pope, Lillian Davis	*East Machias*
Powers, Marion Porter	*Bangor*
Pratt, William Veazie, Jr.	*Belfast*
Puffer, Ida Bridgham	*Columbia Falls*
Pugh, Leona Eymer	*Scotia, N. Y.*
Quittmeyer, Charles Loreaux	*Peekskill, N. Y.*
Raby, Adrienne Marie, A.B., LL.B. Smith, 1914; American Extension, 1932	*New Britain, Conn.*
Ramsdell, Beatrice Mary	*Columbia Falls*

Rankin, Viola Mildred	*Melrose, Mass.*
Reinhardt, John Adam, B.S. New York University, 1936	*Jersey City, N. J.*
Reinhardt, Lillian Anderson	*Jersey City, N. J.*
Reitz, John Addison	*Waltham, Mass.*
Richard, Albert, Jr.	*Columbia Falls*
Risley, Mary Veronica	*Oneida, N. Y.*
Robinson, Glenn Meredith	*Bangor*
Rogers, Roberta Frances	*Portland*
Rollins, Grace Marion	*Dexter*
Rollman, Carl Phillip	*Rhinelander, Wisc.*
Rose, Ethel May	*Humboldt, Kan.*
Rowley, Phyllis	*Gloucester, Mass.*
Russell, Doris	*Schroon Lake, N. Y.*
Ryan, Georgiana Gertrude	*Hempstead, L. I., N. Y.*
Savage, Lucian Odel	*Etna*
Sawyer, Ethel Elma	*Dover-Foxcroft*
Sawyer, Gertrude Yeaton	*East Corinth*
Sawyer, Louise Davis	*Southboro, Mass.*
Sawyer, Neil Gould	*Easton*
Sawyer, Roland Darrow, B.S. Massachusetts State, 1926	*Southboro, Mass.*
Scully, Agnes Louise	*Newton, Mass.*
Seabury, Edwin Morey	*Orono*
Selwood, Helen Woodworth	*Perry*
Sewall, Edgar Fuller	*Bangor*
Shannon, Clayton William	*St. Petersburg, Fla.*
Sheedy, John Richmond	*Groton, Mass.*
Sheetz, Catherine Cornell	*Chillicothe, Mo.*
Sheppard, Fay	*Plainfield, N. J.*
Shesong, Faith Lovejoy, B.A. Maine, 1938	*Portland*
Shiro, James Cople	*Old Town*
Shuster, Carol Ewing	*Newtown, Pa.*
Simpson, Margaret Lilla, B.S. in Ed., M.A. University of Pennsylvania, 1935, 1939	*Westmont, N. J.*
Small, Gerald Turner, B.A. Maine, 1939	*Milbridge*
Smith, Basil Lougee	*Winterport*
Smith, Evelyn Clara, B.A. Maine, 1928	*Orono*

Smith, Francis Wager, Jr.	*Portland*
Smith, Jessie Evelyn	*East Corinth*
Smith, Phoebe Prout	*Stamford, N. Y.*
Smith, Priscilla Alden	*Bangor*
Soper, Marie Jewett	*Newport*
Soule, Laurence William	*Augusta*
Southard, Alma Avis	*Kenduskeag*
Spaulding, Bertha Howard	*West Palm Beach, Fla.*
Spruce, Helen Carmelita	*Old Town*
Spruce, Irene Burr	*Orono*
Spurling, Marion Estelle	*Islesford*
Stanton, Prudence Lucille	*Mechanic Falls*
Stinson, Lois Elizabeth	*Stonington*
Stone, Edith Marie, B.S., M.A. Temple, 1932; University of Pennsylvania, 1938	*Philadelphia, Pa.*
Strang, Irene M.	*Decatur, Ill.*
Strombeck, Stanford Alexander	*Monson*
Strout, Donald James	*Brownville*
Strout, Francis Leroy	*Milbridge*
Studer, Marjorie E.	*Greenfield, Mass.*
Syphers, Ansel James	*Mars Hill*
Tarbell, Gridley Weatherbee	*Bangor*
Tash, Florence Evelyn	*Lincoln*
Taylor, Clyde Churchill	*Boothbay Harbor*
Taylor, Gordon MacLeod	*East Orange, N. J.*
Thayer, Mildred Natalie	*Brewer*
Thombs, Dorothy Margaret	*Brownville Junction*
Thompson, Thomas Garland	*Long Beach, N. Y.*
Tolman, Marthon Gregory	*Portland*
Tomalin, Doris	*Woodbridge, N. J.*
Tracy, Carrie Witham	*North Castine*
Tracy, Lela Burgess	*Hartland*
Travis, Edith Marcella	*Brimfield, Ill.*
Treadwell, Jane Elizabeth	*Salem, Mass.*
Underwood, Julius Erwin, Jr.	*Wallingford, Pa.*
Wagnis, Joseph John	*Pownal*
Ward, Harriette Mary	*Brunswick*
Watson, Carline Wilda	*Bangor*
Watson, Geraldine Eames	*Bangor*
Webber, Lewis Ervin	*Saco*
Webber, Louise Clark	*Saco*

Webster, Marguerite Mary	*Brooklyn, N. Y.*
Weeks, Gertrude	*Patten*
Wehr, Elizabeth Wayno, B.S. in Ed. Marywood, 1936	*Dalton, Pa.*
Welch, Marietta Pauline	*Machiasport*
Wessel, Lois Perkins	*West Brooksville*
Weston, Iva Mertelle	*Bangor*
Whitcomb, Charles Floyd, B.A. Maine, 1925	*New Sharon*
White, Ernest Kelsey	*Thompsonville, Conn.*
White, Ralph Hubert, Jr.	*Jonesboro*
Whitney, Eva Amelia	*Kenduskeag*
Williams, Emma Louise	*Stamford, Conn.*
Williams, George William	*Manville, R. I.*
Willman, Amy Elizabeth	*Scarboro*
Witte, Elizabeth Catherine	*Bangor*
Wood, Pierpont Jeffris	*Rhinelander, Wisc.*
Wyman, Walter Edward	*Brewer*
Yates, Clifford Thomas	*Chappaqua, N. Y.*
Youdelman, Edith, B.B.A. St. John's, 1938	*Brooklyn, N. Y.*
Young, Geneva May	*Brockton, Mass.*
Young, Shirley Cynthia, B.A. Maine, 1934	*Lincolnville Beach*

STUDENTS AT MARINE BIOLOGICAL STATION, LAMOINE

Bradshaw, Nancy Manning	*New Brighton, Pa.*
Gilday, Frank Joseph	*Scranton, Pa.*
Griswold, Arthur Stephen	*Mystic, Conn.*
Laird, Joan Lohra	*Philadelphia, Pa.*
Olsen, Dorothy C.	*West Nyack, N. Y.*
Pray, Lucie Adelaide	*Melrose, Mass.*
Watson, Ellen Evelyn	*Manchester, N. H.*
Woods, Mary Elizabeth	*Kent, Conn.*

Summary of Student Enrollment

1939–1940

	Men	Women	Total
Graduates	52	21	73
Seniors	304	106	410
Juniors	325	123	448
Sophomores	376	122	498
Freshmen	425	150	575
Specials	38	8	46
Upperclass Students conditioned for admission	2	—	2
Two-Year Agriculture			
1st Year	31	—	31
2nd Year	17	—	17
	1570	530	2100
Summer Session	251	353	604
Grand Total (omitting duplicates in Summer Session)	1782	872	2654

Classification by Colleges

Graduate Study	52	21	73
College of Agriculture	491	196	687
College of Arts and Sciences	369	283	652
College of Technology	617	1	618
School of Education	41	29	70
	1570	530	2100

Candidates for Degrees

Graduate Study	48	18	66
College of Agriculture	439	193	632

College of Arts and Sciences	363	282	645
College of Technology	594	—	594
School of Education	37	25	62
	1481	518	1999

CLASSIFICATION BY RESIDENCE

Maine by counties:	
Androscoggin	63
Aroostook	188
Cumberland	233
Franklin	44
Hancock	107
Kennebec	102
Knox	61
Lincoln	30
Oxford	90
Penobscot	596
Piscataquis	68
Sagadahoc	32
Somerset	86
Waldo	60
Washington	92
York	119

1971

	Regular Session	Summer Session	Total
Maine	1660	311	1971
Massachusetts	226	56	282
New York	80	65	145
Connecticut	39	26	65
New Jersey	29	21	50
Pennsylvania	6	28	34
New Hampshire	9	6	15
Rhode Island	8	7	15
Illinois	4	7	11
Vermont	4	2	6
Virginia	5	—	5
Wisconsin	2	3	5

Florida	1	3	4
Ohio	—	4	4
Minnesota	1	2	3
Missouri	1	2	3
California	2	—	2
Delaware	2	—	2
Maryland	1	1	2
Michigan	1	1	2
North Carolina	1	1	2
West Virginia	—	2	2
District of Columbia	1	—	1
Indiana	1	—	1
Iowa	1	—	1
Kansas	—	1	1
Mississippi	1	—	1
Montana	1	—	1
New Mexico	—	1	1
Oklahoma	—	1	1
Oregon	1	—	1
Utah	1	—	1
Washington	1	—	1
Australia	1	—	1
Canal Zone	1	—	1
Canada	5	2	7
England	1	—	1
Norway	—	1	1
Philippine Islands	1	—	1
Territory of Hawaii	1	—	1
	2100	554	2654

Index

	Page
Acting and play production	237
Administration, officers of	9
Admission	59
Arts and Sciences	163
By certificate	59
By examination	60
By transfer	68
Graduate Study	314
School of Education	243
Special students	68
Two-year Agriculture	68
Agricultural Economics Courses	126
Curriculum	93
Agricultural Education Courses	130
Curriculum	95
Agricultural Engineering Courses	133
Curriculum	98
Agricultural Experiment Station	320
Agriculture, College of	90
Courses	126
Curricula	91
General Information	90
Short courses	124
Two-year course	123
Agronomy Courses	131
Curriculum	96
Alpha Zeta	55
Members, 1938-39	334
Alumni Council	326
Alumni Associations	326
Animal Husbandry Courses	134
Curriculum	100
Animal Industry Courses	134
Animal Pathology	136
Aroostook Farm	321
Art Collection	50
Art Education	244
Art History	184
Arts and Sciences, College of	163
Comprehensive examinations	168
Courses	182
Curricula	170
Foreign language	164
Freshman and Sophomore work	166
Honors program	168, 212
Major subject	167
Reading tests in Romance languages	165
Requirements for graduation	164
Teachers' certificates	169
Astronomy	184
Athletic fields	48
Athletics	308
Bacteriology Courses	138
Curriculum	104
Band	56, 307
Bangor Theological Seminary	169
Biochemistry Courses	140
Curriculum	106
Botanical collection	51
Botany Courses	141
Curriculum	107
Entrance	67
Buildings and equipment	45
Business Administration	190, 193
Business, preparation for	177
Calendar	6
Camps	
Civil Engineering	290
Forestry	114
Certificate, admission by	59
Certificates in Agriculture	123
Certificates for teachers	169, 309, 312
Chemical Engineering Courses	277, 281
Curriculum	257
Summer mill practice	285
Chemistry Courses	185, 277
Curriculum	180, 262
Entrance	67
Christian Association	54
Church services	58
Civil Engineering Courses	285
Camp	290
Curriculum	264
Class officers	330
Classics	188
Clubs	56
Coe Research Fund	315
Collections	
Art	50
Scientific	51
Commencement exercises, 1939	341
Commercial Education	244
Committees of the Faculty	43
Comparative Literature	203
Comprehensive examinations	
in Arts and Sciences	168
in Education	246
in Technology	254
Correspondence in Agriculture	125
Courses, general	303
Creative writing	199
Crops	132
Curricula	
Agricultural Economics	93
Agricultural Education	95
Agriculture	91
Agronomy	96
Animal Husbandry	100
Arts and Sciences	170
Botany	107
Business Administration	177
Chemical Engineering	257
Chemistry	180, 262
Civil Engineering	264
Dairy Husbandry	102
Dairy Technology	103
Electrical Engineering	267
Engineering Physics	270
Entomology	107
Farm Management	93
Forestry	112
General Engineering	272
Home Economics	117
Horticulture	109
Journalism	176
Mechanical Engineering	274
Nursing	172
Poultry Husbandry	111
Prelegal	174
Premedical	171
Pulp and Paper	259
Social Work	179
Technology	257
Two-Year Course in Agriculture	123
Wildlife Conservation	115
Dairy Husbandry Courses	136
Curriculum	102
Dairy Technology Courses	136
Curriculum	103
Debating	57
Degrees	85

Page
Education 247
Master's degree 315, 318
Professional 319
With distinction 85
With honors 85
Degrees conferred, 1939 342
Demonstration Work, Agriculture 124
Deposits 71
Diploma fee 72
Dormitories 45
Drafting 296
Dramatics 235
Economics 190
Education, School of 243
Art Education 244
Commercial Education 244
Comprehensive Examination 246
Courses 249
Field of concentration 246
Graduation requirements 245
Honors course 247
Music Education 245
Normal school graduates 243
Residence requirements 247
Electrical Engineering Courses 291
Curriculum 267
Engineering Drafting 296
Engineering Physics Courses 297
Curriculum 270
English 197
Comparative Literature 203
Composition and Rhetoric 198
Entrance 64
Journalism 202
Linguistics 203
Literature 199
Teaching of English 204
English Literature 199
Entomology Courses 143
Curriculum 107
Entrance requirements 59
Establishment of the University 44
Examinations, entrance 60
Expenses 69, 255, 314
Experiment Station
Agriculture 320
Technology 255
Extension Courses 325
Extension work in Agriculture 125
Faculty
Experiment Station, Agric. 33
Experiment Station, Tech. 37
Extension Service, Agric. 39
Teaching 14
Farms 49
Farm and Home Week 124
Farm Management Courses 126
Curriculum 93
Fees 69, 255, 314
Fellowships 314
Fertilizers 131
Field of concentration, Education 246
Floriculture 156
Forestry Courses 144
Camp 114
Curricula 112
Fraternities 57
Fraternity houses 48
French 231
Entrance 65
Freshman Week 61, 68
Freshman work, Arts and Sciences 166
General Courses 303

Page
General Engineering 272
Geography, Economic 204, 286
Geological Collection 52
Geology 204, 286
German 205
Entrance 65
Government 207, 210
Graduation, requirements for
College of Agriculture 90
College of Arts and Sciences 164
College of Technology 254
Graduate Study 316
School of Education 245
Graduate Study 314
Admission 314
Coe Research Fund 315
Degrees 315
Examinations and awarding of degrees 318
Fees 314
Fellowships and scholarships 314
Foreign language requirements 317
General requirements 316
Master of Education Degree 315, 318
Program of Studies 316
Theses 317
University of Maine Studies 319
Greek 188
Gymnasium uniforms 71
Health service 53
Heat Engineering 299
Highmoor Farm 321
Highway Engineering 287
History 207
Entrance 66
Home Economics Courses 148
Curricula 117
Honor societies 55
Honors, degrees with 85
Honors and prizes awarded, 1939 334
Honors course
in Agriculture 93
in Arts and Sciences 168, 212
in School of Education 247
in Technology 254
Tutorial honors 303
Horticulture Courses 154
Curriculum 109
Hydraulics 288
Italian 233
Journalism Courses 202
Curriculum 176
Kappa Delta Pi 55
Members, 1938-39 337
Landscape gardening 156
Latin 189
Entrance 64
Law, preparation for 174
Lecture Courses
Agriculture 125
Technology 297
Library 49
Linguistics, English 203
Loans 72
Location of University 45
Lumbering 145
Machine Design 299
Machine Work 298
Major subject 167
Marine Station 48, 170
Mathematics 214
Entrance 66

Page
Mechanical Engineering Courses 298
Curriculum 274
Mechanics 302
Medicine, preparation for 171
Meteorology 224
Military Courses 303
Modern Society 218, 235
Music 219
Music Education 245
Musical organizations 56
Normal School Graduates 243
Northern Conservatory of Music 220
Omicron Nu 55
Members, 1938-39 336
Organization of the University 88
Organizations 55
Paper and Pulp Courses 283
Curriculum 259
Summer mill practice 285
Paper Making 283
Phi Beta Kappa 55
Members, 1938-39 336
Phi Kappa Phi 55
Members, 1938-39 334
Philosophy 221
Physical Education 308
Physics 222
Entrance 67
Physiology 240
Placement Bureau 53
Political Science 210
Pomology 155
Poultry Husbandry Courses 157
Curriculum 111
Prizes 74
Awarded, 1939 334
Professional degrees 319
Professional societies 55
Projects, summer 158
Psychology 226
Public Speaking 235
Publications
Agricultural Experiment Station 323
Student 57
Technology Experiment Station 256
University 52
University of Maine Studies 319
Pulp and Paper Courses 283
Curriculum 259
Summer mill practice 285
Radio Engineering 294
Registration 68, 314
Regulations of the University 86
Religion, Courses 229
Religious activities 54
Requirements for admission 59
Requirements for graduation
College of Agriculture 90
College of Arts and Sciences 164
College of Technology 254
Master's degree 316
School of Education 245
Requirement for residence
Master's degree 316
School of Education 247
Romance Languages 230
Reading tests 165
Rooms 70
Scholarships 74
Graduate 314
School of Education (see

Page
Education, School of)
Sciences, entrance 67
Scientific collections 51
Short Course in Agriculture 124
Social Science 235
Social Work, preparation for 179
Societies 55
Sociology, 190, 194
Soils and Fertilizers 131
Sororities 57
Spanish 234
Entrance 65
Special students 68, 122
Speech 235
Student Activities 54
Student expenses 69
Regulations 86
Student government 54
Student list 358
Studies, quota of 86
Summary of registration 443
Summer Engineering Camp 290
Summer Forestry Camp 114
Summer Mill practice 285
Summer projects 158
Summer session 170, 324
Students attending, 1939 420
Surveying 285
Tau Beta Pi 55
Members, 1938-39 335
Teachers' certificates
Physical Education, men 309
Physical Education, women 312
Professional 169
Teachers' Registration Bureau 54
Technology, College of 253
Comprehensive examinations 254
Cost of student's equipment 255
Curricula 257
Departments of instruction 277
Experiment Station 255
Experiment Station Faculty 37
General Information 253
Telephone Engineering 292
Theatre, courses in 237
Theses, Master's, 1939 352
Thesis requirements 317
Transfer students 68
Trustees, Board of 8
Tuition charges 69
Tutorial honors 303
Two-year Course in Agriculture 68, 123
Courses 159
Curriculum 123
Typewriting and shorthand courses 239
University, history of 44
Buildings and equipment 45
Bulletins 52
Location 45
Organization 88
University Studies 319
Vegetable Gardening 155
Veterinary Science 136
Western Civilization 218, 235
Wildlife Conservation 115
Women's Student Government 54
Xi Sigma Pi 55
Members, 1938-39 335
Zoology Courses 239
Collections 51
Entrance 67
Marine Laboratory 48, 170