

BULLETIN OF THE
UNIVERSITY OF NEW HAMPSHIRE

CATALOG

1935-1936



DURHAM, NEW HAMPSHIRE

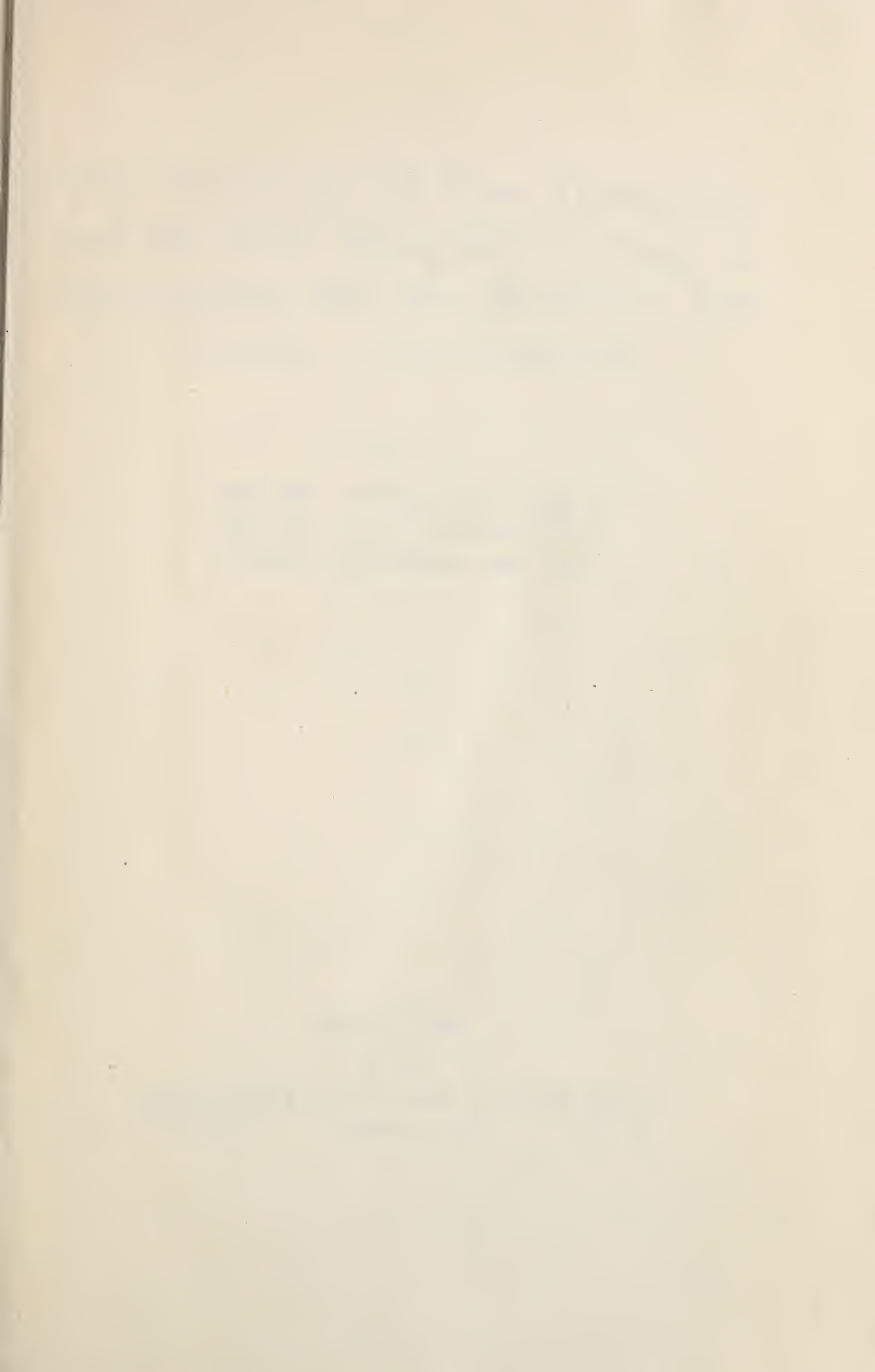
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DURHAM - NEW HAMPSHIRE

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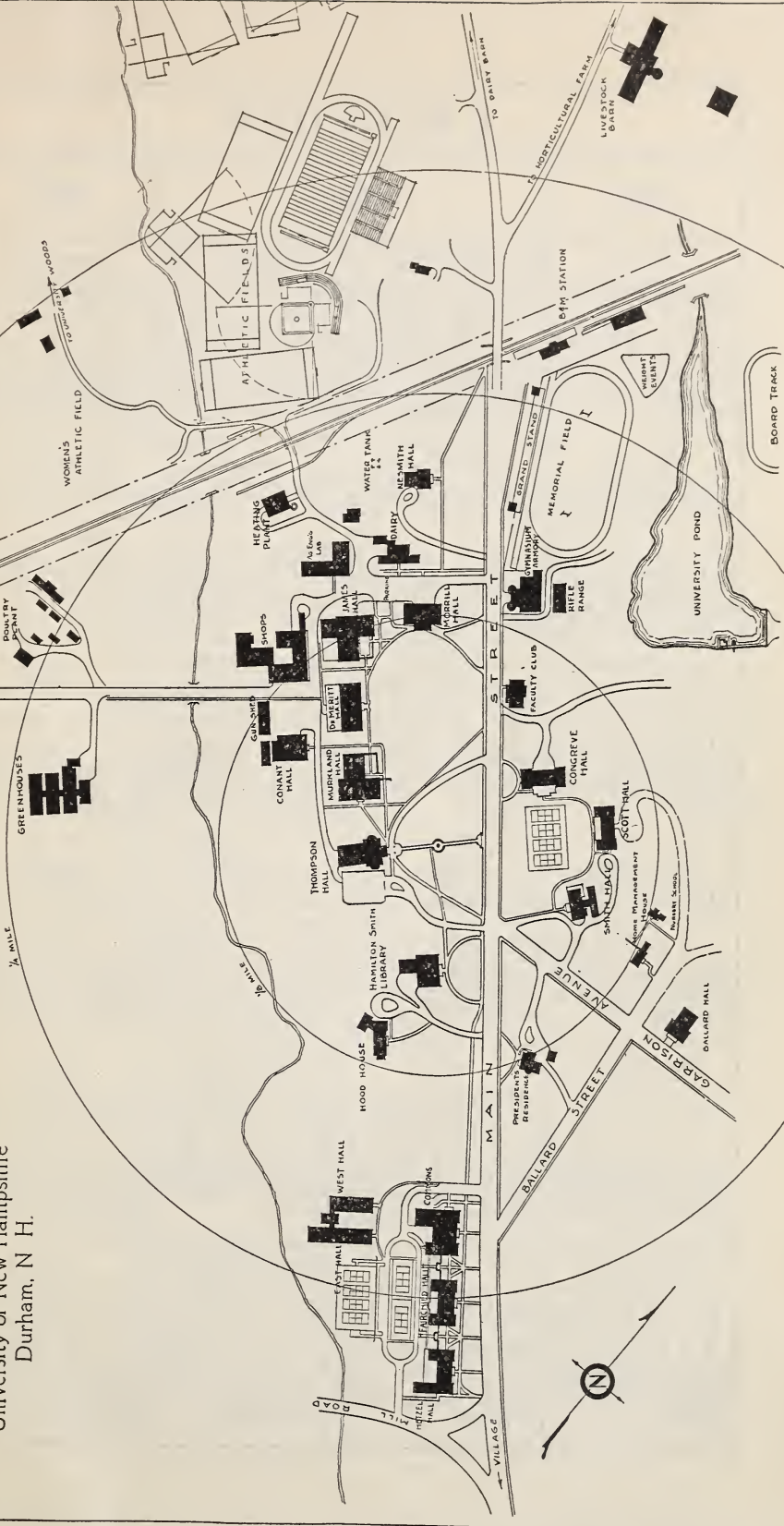
BULLETIN
of the
UNIVERSITY OF NEW HAMPSHIRE
Vol. XXVI February, 1935 No. 6

ARCHIVES

378

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1935/36

Campus
University of New Hampshire
Durham, N. H.



This map shows the buildings of the University and the immediately adjacent grounds. It does not include the farms, forests, gardens or orchards.

CALENDAR

1935

JULY						
S	M	T	W	T	F	S
..	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						
S	M	T	W	T	F	S
..	..	..	..	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						
S	M	T	W	T	F	S
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						
S	M	T	W	T	F	S
..	..	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						
S	M	T	W	T	F	S
..	..	..	..	..	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						
S	M	T	W	T	F	S
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	..	..	..	..
..

1936

JANUARY							JULY								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
..	..	..	..	1	2	3	4	..	..	..	..	1	2	3	4
5	6	7	8	9	10	11	12	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	21	22	23	24	25	26	27	28
29	30	31	..	..	..	..	..	29	30	31	..	..	..	..	..
..

FEBRUARY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..
2	3	4	5	6	7	8	2	3	4	5	6	7	8	9	10
9	10	11	12	13	14	15	9	10	11	12	13	14	15	16	17
16	17	18	19	20	21	22	16	17	18	19	20	21	22	23	24
23	24	25	26	27	28	29	23	24	25	26	27	28	29	30	31
..

MARCH							SEPTEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	..
8	9	10	11	12	13	14	6	7	8	9	10	11	12	..	..
15	16	17	18	19	20	21	13	14	15	16	17	18	19	..	..
22	23	24	25	26	27	28	20	21	22	23	24	25	26	..	..
29	30	31	..	..	..	..	27	28	29	30	..	..	..	..	..
..

OCTOBER							NOVEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
..	..	1	2	3	4	5	..	..	..	..	..	..	..	..	..
6	7	8	9	10	11	12	4	5	6	7	8	9	10	..	..
13	14	15	16	17	18	19	11	12	13	14	15	16	17	..	..
20	21	22	23	24	25	26	18	19	20	21	22	23	24	..	..
27	28	29	30	31	..	..	25	26	27	28	29	30	31	..	..
..

MAY							DECEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
..	..	..	..	..	1	2	1	2	3	4	5	6	7	..	..
3	4	5	6	7	8	9	8	9	10	11	12	13	14	..	..
10	11	12	13	14	15	16	15	16	17	18	19	20	21	..	..
17	18	19	20	21	22	23	17	18	19	20	21	22	23	..	..
24	25	26	27	28	29	30	24	25	26	27	28	29	30	..	..
..	..	..	..	..	..	..	31	..	..	..	..	..	..	..	..

JUNE							JANUARY								
S	M	T	W	T	F	S	S	M	T	W	T	F	S		
..	1	2	3	4	5	6	..	..	..	..	..	..	..	..	..
7	8	9	10	11	12	13	6	7	8	9	10	11	12	..	..
14	15	16	17	18	19	20	13	14	15	16	17	18	19	..	..
21	22	23	24	25	26	27	20	21	22	23	24	25	26	..	..
28	29	30	..	..	..	..	27	28	29	30	31	..	..	..	..
..

1937

JANUARY							
S	M	T	W	T	F	S	
..	..	..	..	..	..	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						
S	M	T	W	T	F	S
..	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						
S	M	T	W	T	F	S
..	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						
S	M	T	W	T	F	S
..	..	..	..	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	..
..

UNIVERSITY CALENDAR

1935-36

SUMMER SESSION

1935

July 1	Monday	Registration Day
July 2	Tuesday	Classes begin at 8 A.M.
July 4	Thursday	Holiday
Aug. 9	Friday	Summer Session closes at 4 P.M.

FALL TERM

1935

Sept. 17	Tuesday	Matriculation Day—Freshman Class
Sept. 23	Monday	Registration Day—All Classes
Sept. 24	Tuesday	Recitations begin at 8 A.M.
Sept. 25	Wednesday	University Day—Afternoon holiday
Oct. 18	Friday	Annual Meeting of Board of Trustees
Nov. 1	Friday	Mid-Term warnings to be filed, 5 P.M.
Nov. 2	Saturday	Dads' Day
Nov. 9	Saturday	Home-coming Day
Nov. 27-Dec. 2	Wed.—Mon.	Thanksgiving recess—Wed., 12:30 P.M. to Mon., 8 A.M.
Dec. 16-20	Mon.—Fri.	Fall Term examinations
Dec. 20	Friday	Fall Term closes at 4 P.M.

WINTER TERM

1936

Jan. 2	Thursday	Registration Day
Jan. 3	Friday	Classes begin at 8 A.M.
Jan. 17	Friday	Meeting of Board of Trustees
Jan. —	Fri., Sat.	Winter Carnival, Fri., 12:30 P.M. to Sat., 12:30 P.M.
Feb. 5	Wednesday	Mid-Term warnings to be filed, 5 P.M.
Mar. 10	Tuesday	Town Meeting
Mar. 9-13	Mon.—Fri.	Winter Term examinations
Mar. 13	Friday	Winter Term closes at 4 P.M.

UNIVERSITY OF NEW HAMPSHIRE

SPRING TERM

1936

Mar. 23	Monday	Registration Day
Mar. 24	Tuesday	Recitations begin at 8 A.M.
Apr. 17	Friday	Meeting of Board of Trustees
May 1	Friday	Mid-Term warnings to be filed, 5 P.M.
May 23	Saturday	Mothers' Day
May 30	Saturday	Memorial Day—Holiday
June 8-12	Mon.—Fri.	Spring Term examinations
June 8	Monday	Senior examinations close at 12:30 P.M.
June 13	Saturday	Class Day—Alumni Day—Meeting of Board of Trustees
June 14	Sunday	Baccalaureate Day
June 15	Monday	Commencement Day

SUMMER SESSION

1936

June 29	Monday	Registration Day
June 30	Tuesday	Classes begin at 8 A.M.
July 4	Saturday	Holiday
Aug. 7	Friday	Summer Session closes at 4 P.M.

BOARD OF TRUSTEES

HIS EXCELLENCY, GOVERNOR H. STYLES BRIDGES, *ex officio*

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ROY D. HUNTER, *President* West Claremont
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September 15, 1926 to June 30, 1938

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January 26, 1928 to June 30, 1935

ROBERT T. KINGSBURY Keene
January 27, 1928 to June 30, 1936

JOHN W. PEARSON, A.B. Concord
January 26, 1928 to June 30, 1936

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May 6, 1929 to June 30, 1935 *Re-elected*

GEORGE T. HUGHES, A.M., LL.D. Dover
July 1, 1931 to June 30, 1935

*JOHN S. ELLIOTT, B.S., *Secretary* Madbury
July 1, 1932 to June 30, 1936

JESSIE DOE Rollinsford
July 1, 1932 to June 30, 1938

JOHN T. DALLAS, A.B., D.D., LL.D. Concord
July 1, 1933 to June 30, 1937

* Elected by Alumni.

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T. BURR CHARLES, B.S., *Professor of Poultry Husbandry*
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* Arranged in order of seniority of appointment.

† 1934-35

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* Arranged in order of seniority of appointment.

† Leave of absence, 1934-35.

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†ROBERT G. WEBSTER, M.A., *Instructor in English*
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HENRY S. CLAPP, B.S., *Instructor in Ornamental Horticulture and Su-
pervising Landscape Architect*
ALBERT E. TEPPER, M.S., *Instructor in Poultry Husbandry*

* Arranged in order of seniority of appointment.

† Leave of absence, 1934-35.

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LAWRENCE H. HOUTCHENS, PH.D., *Instructor in English*
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ASSISTANTS*

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FRED H. BROWN, SERGEANT, *Assistant in Military Science and Tactics*
BETHYL C. HENNESSY, *Assistant in Oral English*
CLYDE W. MONROE, M.S., *Assistant in Zoölogy*
HENRY A. DAVIS, M.S., *Assistant in Agricultural and Biological Chemistry*
CAROLINE M. STREETER, B.S., *Graduate Assistant in Physical Education for Women*
EVERETT H. LANG, B.S., *Graduate Assistant in Chemistry*
RAYMOND B. SEYMOUR, B.S., *Graduate Assistant in Chemistry*
WILLIAM R. EADIE, M.S., *Assistant in Zoölogy*
GEORGE H. JOSEPH, B.S., *Graduate Assistant in Agricultural and Biological Chemistry*
EVAN C. NOONAN, B.S., *Graduate Assistant in Chemistry*
HERMAN H. HART, B.A., *Graduate Assistant in Languages*
HOLLIS L. LELAND, B.S., *Graduate Assistant in Chemistry*
ELEANOR L. SHEEHAN, M.S., *Assistant in Zoölogy*
EDNA F. DICKEY, B.A., *Graduate Assistant in History*
ELIZABETH C. FERNALD, A.B., *Assistant in Home Economics*
L. LELAND DURKEE, A.M., *Assistant in Languages*
MARGARET M. COLBERT, B.S. IN EDUC., *Graduate Assistant in Physical Education for Women*
BARBARA ROWELL, B.A., *Assistant in English*

*Arranged in order of seniority of appointment.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION

THE STATION STAFF

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JOHN C. KENDALL, B.S., *Director*
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WALTER C. O'KANE, M.A., D.SC., *Entomologist*
ORMOND R. BUTLER, PH.D., *Botanist*
ERNEST G. RITZMAN, M.S., *Research Professor in Animal Husbandry*
KARL W. WOODWARD, A.B., M.F., *Forester*
GEORGE F. POTTER, PH.D., *Horticulturist*
THOMAS G. PHILLIPS, PH.D., *Chemist*
T. BURR CHARLES, B.S., *Poultry Husbandman*
KENNETH S. MORROW, M.S., *Dairy Husbandman*
HARRY C. WOODWORTH, M.S., *Agricultural Economist*
M. GALE EASTMAN, PH.D., *Associate Agricultural Economist*
TODD O. SMITH, M.S., *Associate Chemist*
FORD S. PRINCE, B.S., *Associate Agronomist*
JESSE R. HEPLER, M.S., *Associate Horticulturist*
CLARK L. STEVENS, PH.D., *Associate Forester*
STANLEY R. SHIMER, M.S., *Assistant Chemist*
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CHARLES A. BOTTORFF, JR., D.V.M., *Poultry Pathologist*
EARL H. RINEAR, M.S., *Research Specialist in Marketing*
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LEROY J. HIGGINS, B.S., *Assistant Agronomist*
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HAROLD C. GRINNELL, M.S., *Assistant Agricultural Economist*
JAMES MACFARLANE, *Florist*
ALBERT D. LITTLEHALE, *Shepherd*
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ELMER W. LANG, *Tester*
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†LEON C. GLOVER, M.S., *Research Assistant in Entomology*
WARREN A. WESTGATE, M.S., *Research Chemical Assistant in Entomology*
ALBERT E. TEPPER, M.S., *Assistant Poultry Husbandman*

† Leave of absence, September 24, 1934-March 24, 1935.

THE STATION STAFF

LAWRENCE W. SLANETZ, PH.D., *Assistant in Bacteriology*
FRANK D. REED, B.S., *Poultry Certification Inspector*
ARNO J. HANGAS, B.S., *Research Field Assistant in Agricultural Economics*
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HENRY A. DAVIS, B.S., *Assistant in Agricultural and Biological Chemistry*
LLOYD E. WASHBURN, M.S., *Research Assistant in Animal Husbandry*
LINWOOD J. BOWEN, B.S., *Graduate Assistant in Botany*
MARY A. TINGLEY, B.S., *Graduate Assistant in Horticulture*

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MAISIE C. BURPEE, *Secretary to the Director*

† Leave of absence, May 1–October 29, 1934.

EXTENSION SERVICE

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CLYDE N. HALL, B.S., *Assistant Extension Dairyman*

HALSTEAD N. COLBY, B.S., *Extension Assistant in Rural Engineering*

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CLARENCE S. HERR, M.S., *Assistant County Agent in Coös and Grafton Counties*

EDWIN R. CHAMBERLIN, B.S., *Cheshire County*

† Leave of absence, June 20–December 20, 1934.

THE EXTENSION STAFF

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ASSISTANTS TO THE STAFF

†HENRY B. STEVENS, A.B., *Executive Secretary*
RAYMOND C. MAGRATH, *Treasurer and Business Secretary*
BEATRICE M. RICHMOND, *Bookkeeper*
FRANCIS E. PERKINS, B.S., *Editorial Assistant*
ELIZABETH E. MEHAFFEY, *Assistant Librarian and Mailing Clerk*
MAISIE C. BURPEE, *Secretary to the Director*

* Leave of absence, January 1–March 31, 1935.

† Leave of absence, May 1–October 29, 1934.

HISTORICAL SKETCH

The University of New Hampshire was incorporated by an act of The General Court of New Hampshire on May 4, 1923. The new corporation included the old corporation known as the New Hampshire College of Agriculture and the Mechanic Arts, a College of Technology and a College of Liberal Arts. The act of incorporation took effect on July 1, 1923. Under the provisions of the act the trustees of the New Hampshire College of Agriculture and the Mechanic Arts became the trustees of the University of New Hampshire.

The administration of the University is vested in a board of thirteen trustees, of which the Governor of the State, the Commissioner of Agriculture, and the President of the University are *ex officio* members. The alumni elect two trustees, and the others are appointed by the Governor with the advice and consent of the Council.

The original corporation, the New Hampshire College of Agriculture and the Mechanic Arts, was created by an act of the Legislature in 1866 and was established at Hanover as a state institution in connection with Dartmouth College. The year 1866 saw the entrance of the first class. Before the college was founded, the Legislature of 1863 had accepted the conditions of an Act of Congress of July 2, 1862, entitled, "An act donating public lands to the several states and territories which may provide colleges for the benefit of agriculture and the mechanic arts."

In 1893 the college was moved from Hanover to Durham. This action followed the death of Benjamin Thompson, a farmer of Durham, who died January 30, 1890, and left to the college, with the exception of a few minor reservations, his entire estate. The Legislature accepted this bequest March 5, 1891, and appropriated the necessary money for the first buildings.

Shortly before the State accepted Mr. Thompson's gift the Legislature further provided for the college by accepting the provisions of Congressional legislation known as the Morrill Act. This legislation made available federal appropriations "for instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical, physical, natural and economic science, with special reference to their applications in the industries of life, and to the facilities for such instruction."

HISTORICAL SKETCH

Although the college was able to make use of the Thompson land as early as 1893, it was not until 1910 that the income from the endowment of almost \$800,000 became available. At present the college has an annual income from the Thompson fund of nearly \$32,000. It also receives moneys which are available as the result of the acts of Congress referred to, and a yearly appropriation from the State amounting to one mill on the assessed valuation of all taxable property.

Although engineering instruction had been carried on in a division of engineering from the founding of the college, the work became unified and specialized when the College of Technology became one of the administrative units of the University in 1923.

Study of the liberal arts had been offered before the change of nomenclature of the corporation in 1923. The University of New Hampshire included a College of Liberal Arts, intended to care for the students who desire preparation for life in fields other than agriculture and engineering.

Graduate study although not new to New Hampshire, as it had been carried on for some time under the direction of a faculty committee, was definitely organized in 1928 as a Graduate School.

A branch of the University, known as the Agricultural Experiment Station, was established by the State August 4, 1887, under the terms of an Act of Congress passed in March of that year. Its purpose is to acquire agricultural knowledge and to bring its information to the people of the State. The station is actively engaged in this work not only in Durham but throughout the commonwealth. Members of the faculty of the College of Agriculture serve on the station staff.

In addition to its functions of teaching resident students and conducting research investigations, the University has been developing rapidly during the past few years its function of carrying information and assistance in agriculture and home economics into all parts of the State. Funds appropriated for the University by acts of Congress and the Legislature provide the means for promoting this type of work.

SITUATION

Durham, the home of the University, is an attractive village on the Portland division of the Boston and Maine railroad, sixty-two miles from Boston, fifty-four from Portland, and five from Dover, a city of 15,000 population. Good train service makes the University easily accessible from all parts of the state.

Durham, organized in 1732, is one of the historic towns of New Hampshire. In the early days it was the home of a prosperous ship-building industry. Situated at the head of tidewater on the Oyster River, it served as a distributing center for the interior of the state. During the Revolutionary War it was famous as the home of General John Sullivan. Near his home, in the village, the state has erected a fitting monument to his memory.

FACILITIES FOR INSTRUCTION

BUILDINGS FOR ADMINISTRATION AND INSTRUCTION

THOMPSON HALL, the general administration building, was built in 1893 and is named for Benjamin Thompson of Durham, the greatest individual benefactor of the College and University. It contains the office of the President and the offices of other general administrative officers, and also affords classroom and laboratory facilities for work in physical education for women, zoölogy, entomology, and home economics.

CONANT HALL, also built in 1893, is named for John Conant of Jaffrey, an early and generous friend of the College. This building, originally constructed to house scientific departments, gradually became during the passage of years the headquarters of the department of chemistry. It was in this building that Professor Charles James accomplished his researches in the rare earths and minerals. Upon the completion of Charles James Hall in 1929, this building was largely given over to civil engineering and geology .

NESMITH HALL, another one of the four original buildings erected in Durham in 1893, is named for Judge George W. Nesmith of Franklin, who was active as president of the Board of Trustees from 1877 to 1890. This small building was enlarged and renovated in 1933 and now houses the departments of botany and agricultural economics.

FACILITIES FOR INSTRUCTION

SHOPS, originally constructed in 1893 and enlarged during and immediately after the World War, provides facilities for the department charged with the maintenance of the buildings and grounds. This building also houses practical laboratory work in mechanical engineering, and in one section provides space for practical instruction and research in the handling and storage of horticultural products.

MORRILL HALL, built in 1902, is named for Senator Justin Morrill of Vermont, sponsor of the Land Grant Act. This building serves as headquarters of the College of Agriculture, and contains also the office of the director of Experiment Station and the Extension Service. In this building are the laboratories and classrooms of the departments of agronomy, animal husbandry, horticulture, poultry husbandry, forestry, and offices for agricultural extension and station staff members.

ARMORY AND GYMNASIUM, erected in 1906, contains a large drill hall and gymnasium and provides space for the offices of the departments of physical education and athletics and military science and tactics. In the basement facilities are provided for showers and lockers and for the storage of military and athletic equipment.

HAMILTON SMITH LIBRARY was erected in 1907 with a union of funds left by Hamilton Smith of Durham for the erection of a town library building, from the Carnegie Corporation and the State of New Hampshire. The library serves not only the faculty and students of the University but also the residents of the town of Durham, being one of two such libraries in the United States so constituted, and because it is the library of the state university, it serves as far as possible the people of the State of New Hampshire.

DAIRY BUILDING, constructed in 1910, is arranged and equipped for purposes of dairy instruction. It contains equipment usually found in an up-to-date dairy and affords splendid opportunities for the study of all phases of the dairy industry.

DEMERITT HALL, provided in 1914, is named for Albert DeMeritt of Durham, a long-time friend and staunch supporter of the College. It serves as the headquarters of the College of Technology and affords lecture, recitation, laboratory and office rooms for the departments of mechanical engineering, electrical engineering, physics, and architecture.

MURKLAND HALL, built in 1927, is named for Charles Sumner Murkland, President of New Hampshire from 1893 to 1903. It provides

UNIVERSITY OF NEW HAMPSHIRE

classroom and office facilities for the majority of the departments of the College of Liberal Arts. It houses the departments of economics and accounting, English, languages, mathematics, sociology, philosophy and psychology, history, and political science.

CHARLES JAMES HALL, dedicated in 1929, bears the name of Charles James, Professor of Chemistry at New Hampshire from 1906 to 1928. This new structure houses the department of agricultural and biological chemistry and the department of chemistry. It provides lecture and recitation rooms and laboratories for instruction and research in both of these departments.

BALLARD HALL, originally constructed in 1905 and acquired by purchase in 1914, affords office and classroom facilities for the departments of education and music, accommodations for Christian Work, Inc., and offices of student organizations.

RESIDENTIAL HALLS

COMMONS was erected in 1919 and enlarged in 1925. It contains the freshman dining hall, a faculty dining room, a cafeteria, a trophy and lounge room, rooms for meetings of student organizations, and provides on the third floor dormitory facilities for a limited number of undergraduate men.

FAIRCHILD HALL, erected in 1916, honors Edward Thomson Fairchild, President of New Hampshire from 1912 to 1917. It is a brick structure of colonial design and furnishes accommodations for 150 undergraduate men.

EAST AND WEST HALLS were erected by the United States Government in 1918, in order to furnish housing facilities for troops in training at the College during the World War. These buildings have since been partitioned into moderate-sized rooms and provide desirable accommodations and comfortable quarters at low cost for 230 men.

SMITH HALL was originally constructed in 1908 with funds made possible by the generosity of Mrs. Shirley Onderdonk of Durham, who made this provision as a memorial to her mother, Mrs. Alice Hamilton Smith. The original building and an annex constructed in 1918 furnish desirable rooming facilities for 68 women students.

CONGREVE HALL was built in 1920 with funds made available through the will of Mrs. Alice Hamilton Smith of Durham, and bears the

EQUIPMENT

name of a family intimately connected with Mrs. Smith's ancestry. The original building and a wing erected during the summer of 1922 accommodate 100 undergraduate women.

HETZEL HALL, built in 1925, is named for Ralph D. Hetzel, President of New Hampshire from 1917 to 1927. It is the newest men's dormitory on the campus and accommodates 156 undergraduate men.

SCOTT HALL, completed in 1932, is named for Clarence Watkins Scott, Professor of History at New Hampshire from 1879 to 1930. This building furnishes comfortable accommodations for 120 undergraduate women.

ELIZABETH DEMERITT HOUSE, erected in 1931, named for Mrs. Elizabeth P. DeMeritt, Dean of Women from 1919 to 1931, is a new and well-furnished practice house for use by students in home economics.

CHARLES HARVEY HOOD HOUSE, an infirmary and rest house erected in 1932, is the gift of Mr. and Mrs. Charles Harvey Hood of Boston. It was erected and will be maintained by funds presented to the Trustees in 1930, the fiftieth anniversary of Mr. Hood's graduation from New Hampshire. Hood House, designed and furnished in a cheery, homelike style, is unusually well equipped to care for sick and ailing students and teachers. It will accommodate normally thirty patients in both wards and private rooms. The office of the University Physician and quarters for three trained nurses are also located in Hood House.

Other buildings on the campus include the President's House, a substantial attractive building erected in 1904 to provide a residence for the President and his family; the Power Plant, equipped for heating the buildings of the institution; the Greenhouses, which provide facilities for botanical and horticultural research and instruction; the several large and well-equipped farm buildings adapted to the needs of the College of Agriculture; and a frame dwelling used for instruction in the care and nurture of children of pre-school age.

EQUIPMENT

AGRICULTURAL ENGINEERING.—For instruction in Agricultural Engineering improved facilities are provided by the use of two and one-half floors in a building measuring 45 feet by 98 feet which contains laboratories for the study of farm equipment, building construction

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and maintenance, and other engineering problems related to farm enterprises. Four to six makes of tractors are available in the tractor laboratory; several types and sizes of stationary engines and light plants are provided in the gas engine laboratory. Considerable space is devoted to a large variety of representative makes of modern field machinery for study of machine methods, selection, care, adjustment and operation.

Facilities for instruction in electrical farm equipment and methods of operation are provided. In the experiment station laboratory for rural electrification are available many electrical appliances especially developed for agricultural use.

Tools and facilities are provided for the care, adjustment and operation of equipment, and a modern farm shop is employed in the instruction in repair work.

Drainage levels for laying out drains, plane tables for mapping plots of land, polar planimeters for measuring plotted areas, steel tapes, chains, range poles, etc., are available for practical work in farm surveying, mapping and drainage problems.

A dynamometer, apparatus for studying draft problems, and many measuring, recording and other instruments of the experiment station are available for technical, as well as practical, class instruction.

AGRONOMY.—For farm crops work, this department has a very complete collection of dried specimens of the different forage crops, and of the more important varieties of corn, wheat and oats. Seed testing apparatus, grass charts, and other illustrative material form a part of the equipment.

The lecture room is equipped with a combined lantern and reflectoscope, together with a large number of lantern slides.

A new soil physics laboratory contains soil bins, a compacting machine, chemical and torsion balances and various kinds of physical apparatus for the study of soils, including that for the determination of specific gravity and for the making of mechanical analyses.

The farm, with its 1,100 acres of land, has a variety of soils suited for the growth of various farm crops.

ANIMAL HUSBANDRY.—The stock barn is thoroughly equipped with modern appliances, and houses an excellent herd of pure-bred Shorthorns, several Herefords, small flocks of pure-bred Shropshire and Dorset sheep, and a well-bred Percheron stallion.

EQUIPMENT

The piggery accommodates a herd of Chester White hogs. All animals are used for instructional purposes.

The classroom is equipped with various anatomical models, charts, and lantern slides, and an up-to-date livestock library is available for student use.

Herd books of the most prominent breeds are used for the purpose of familiarizing students with the methods of tracing pedigrees and with the practices of breeders' associations.

ARCHITECTURE.—The department of architecture is well equipped to meet the needs of the courses offered. The drafting rooms are supplied with tables and lockers, and the free-hand studio with suitable stands and easels. For free-hand drawing there is a good supply of geometric models, and for advanced work in charcoal drawing the nucleus of a good collection of plaster casts exists, consisting of historic ornament, details of plant and animal life and of the human form. For special work in this subject there is available the museum of casts, consisting of examples of antique and modern sculpture. For work in architectural drawing an excellent library of books, periodicals, and blue prints of all classes of buildings are available for reference and use in the drafting rooms, while a goodly collection of samples of building materials is being added from time to time.

BOTANY.—The department of botany has the usual laboratory equipment to meet the needs of the courses in general botany, plant physiology and bacteriology. In the advanced courses, owing to the connection of the department with the experiment station, students will find both the laboratory and greenhouse equipment ample for critical studies in plant diseases and plant nutrition.

CHEMISTRY.—The departments of chemistry and agricultural chemistry occupy the new building, Charles James Hall. Laboratories, equipment and recitation rooms, entirely modern in every respect, are provided for instruction in all fundamental courses. In addition ample facilities are available for advanced instruction and research work in inorganic, analytical, physical, and organic chemistry.

CIVIL ENGINEERING.—The civil engineering department is located in Conant Hall. The offices and the drafting, recitation, and lecture rooms are on the first floor, and the instrument rooms and laboratories for material testing and highway investigation are in the basement.

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The hydraulic laboratory, in the basement of DeMeritt Hall, is used by the civil engineering department for instruction and experimentation. The department is well equipped with transits, levels, plane tables, and current meters for plane, topographic and hydrographic surveying.

DAIRY HUSBANDRY.—The dairy husbandry laboratories, located in the dairy building and in the dairy barn, are well equipped for instructional purposes. The equipment includes power churn, power separator, pasteurizers, coolers, ice cream freezers, bottler, two mechanical refrigeration units and homogenizer. The milk testing and bacteriological laboratories have equipment necessary for milk testing and inspection, and dairy bacteriology.

The University dairy herd is made up of representatives of the Ayrshire, Guernsey, Holstein and Jersey breeds.

A new dairy barn unit, completed in the spring of 1932, provides accommodations for some 120 dairy animals. This unit consists of the following: main barn, for 50 cows; wing, for bulls, calves and young stock; isolation barn; dry cow and young stock barn, for 50 head; combine milk room; milk house, with equipment for cooling, bottling and storing milk, and for washing and sterilizing bottles and equipment.

ELECTRICAL ENGINEERING.—The laboratories for electrical engineering are located in DeMeritt Hall. The main laboratory is used for testing electrical machinery, and contains a large distribution switchboard on which are mounted instruments, switches, circuit breakers, and plugging devices. These devices are so arranged that by making the proper connections thereto, direct current and alternating current can be supplied to the various panels in the laboratory and to the lecture rooms in the building. In addition to this main laboratory there are others devoted to communication and storage batteries.

The general equipment includes direct and alternating current generators and motors, transformers, rectifiers, rotary converters, telephone, telegraph and radio communication equipment, demonstration equipment, storage batteries, and the necessary measuring instruments adapted to the needs of students taking this course.

The lecture room of the department is connected directly with the switchboard in the main laboratory and is equipped with such apparatus as is needed to supplement lectures with demonstrations.

EQUIPMENT

FARM.—The College of Agriculture has a large, well-equipped farm. It serves as a laboratory for much of the instruction in agriculture where approved methods and practices may be seen and where many students may gain experience by actually performing the work with their own hands.

The several farms of the University total about 1,140 acres. Of this area about 110 acres are devoted to the campus and athletic fields; about 320 acres are used for hay, tillage, orchards and gardens; about 400 acres are forest, wood and brush land; about 300 acres are in pasture; and about 10 acres in ponds.

FORESTRY.—Durham is well situated with reference to the study of woodlot forestry. All types of native second-growth forests are found near by, and the college owns a tract of 50 acres of old-growth timber and 500 acres of second-growth. A nursery for the growing of seedling forest trees has been established. To give an insight into the problems of large-scale forest management, the summer camp is located in the White Mountain National Forest, which has an area of over 500,000 acres.

The necessary instruments for making forest maps and measurements, together with collections of wood specimens, lantern slides and photographs, are available in connection with this work.

GEOLOGY.—The geology department, located on the second floor of Conant Hall, offers courses in structural and dynamic geology, physiography, mineralogy, economic geology, and paleontology. The lectures in these courses are supplemented by laboratory exercises and field trips.

The working equipment of the department includes numerous topographic and geologic maps, and a fairly complete collection of minerals, rocks and fossils. Microscopes are available for problem work in mineralogy, petrology, and paleontology. The departmental museum displays a wide variety of geological specimens and contains the Hitchcock collection, the Clough collection, and a portion of the Exeter Historical Society collection.

Few areas present such a wide variety of geological phenomena as the country in and about Durham. Features such as mountain and continental glaciation, marine erosion and deposition, vulcanism, orogeny, and metamorphism, are well shown.

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HOME ECONOMICS.—The home economics department has two offices and three large classrooms in Thompson Hall, a thoroughly modern home management house, and a nursery school-kindergarten. The food laboratory consists of a small unit dining-room and a working area equipped with individual desks and cupboards for utensils and supplies. The clothing laboratory is equipped with tables, cupboards, various types of sewing machines and has a fitting room. The third classroom is equipped for weaving and textile study and contains a delineascope.

The Elizabeth DeMeritt House, maintained for practice in home management, is a modified Cape Cod cottage, thoroughly equipped with modern household devices and furnished to illustrate various types of treatment in keeping with its style. It will house eight resident students and two instructors.

The Durham Kindergarten and Nursery School is located in a cottage house at the rear of Smith Hall. It is furnished with the necessary equipment to maintain the school as a laboratory for child care and training.

THE LIBRARY.—The Hamilton Smith Library, by virtue of an agreement between the Town of Durham and the then New Hampshire College in 1907, contains not only the books belonging to the University but also those of the Durham Library Association, the Durham Public Library and the New Hampshire Agricultural Experiment Station.

The library collection includes 79,000 bound volumes. One thousand periodicals, continuations and proceedings of scientific societies are received currently. The library is a depository for United States government publications. The main collections are housed in the Hamilton Smith Library. The volumes of the New Hampshire Agricultural Experiment Station are kept in Morrill Hall. Seventeen department libraries are maintained for the departments of the Colleges of Agriculture and Technology. Periodicals appropriate to the department libraries are sent there.

The library publications include *The Library Handbook* containing information, directions for the use of the library and library tools, and library regulations; and the *Library Lantern*, a monthly news bulletin about books and libraries. These are free.

The library attempts to provide all books needed for reading and research save the individual texts adopted for the various courses; to

EQUIPMENT

provide recreational reading of a wide and varied character, including current, ephemeral and standard material of value; and to add gradually to its collections of the classics, serial sets, research and reference works.

MECHANICAL ENGINEERING.—This department is located in DeMeritt Hall. On the second and third floors are the advanced drawing and designing rooms. In addition to these drafting rooms there are two lecture rooms, and department offices. One of the lecture rooms is equipped with a motion picture machine and stereopticon lantern for illustrated lectures.

In the basement are located certain of the mechanical engineering laboratories, one of which is the laboratory equipped with the apparatus for making analyses of flue gases, for calorimetric determinations of the heat values of solid and liquid fuels, and for conducting the usual work in heat treatment of steel. Apparatus needed in determining the viscosity and flash points of lubricants as well as an oil testing machine for determining the lubricating and wearing qualities of lubricants is located in the automotive laboratory in the Shops. Materials testing machines of this department are located in the basement of Conant Hall.

The main room of the DeMeritt laboratories is given over to the testing of steam, gas and hydraulic machinery as well as of air compressors, air conditioning, refrigeration and heat transfer apparatus. This laboratory is equipped with machinery needed for such testing. There is also an ample supply of other apparatus needed in conducting various tests and doing research work in various lines.

The new power plant has been designed to serve also as a steam laboratory for this department.

Aëronautical equipment and gas engines are located in the automotive laboratory at the rear of the Shops.

The wood shop is equipped with thirty-three benches, and complete woodworking equipment.

The equipment of the machine shops consists of the modern apparatus found in an up-to-date commercial shop, and a large number of small tools, including micrometers, calipers and gauges necessary for accurate work. This shop was entirely remodeled and equipped with new lathes in 1931.

In the forge shop are 27 Sturtevant down-draft forges, with anvils and necessary tools. This shop was entirely remodeled and new down-draft equipment was installed therein in 1931.

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MILITARY SCIENCE.—Recognizing in military training a source of physical, mental, and moral development for the individual and a future safeguard for the nation, the University maintains two units of the Reserve Officers Training Corps. This corps, described in later pages, is made up of units at 125 principal educational institutions in the country. It was organized by Congress in 1916 to provide systematic military training in civil institutions and to train specially selected students as reserve officers in the military forces of the United States.

The training of the corps is under the supervision of the Secretary of War. Officers and non-commissioned officers of the Regular Army are detailed at the University to conduct this training. The War Department loans all the necessary equipment of the latest type, so that with the exception of a few text-books required by students, members of the R.O.T.C. are put to no expense for arms or equipment.

In addition to the infantry and artillery equipment furnished by the government, there are a 75-foot indoor gallery practice rifle range, a 1,000-inch outdoor machine gun range, and a 50-yard outdoor pistol range available for the use of students. The rolling country in the vicinity furnishes opportunity for extended order drill and field exercises, and the athletic fields for close order drill.

The cadets wear, when on duty of a military character, a uniform furnished by the War Department.

Upon the graduation of each class, those students who have satisfactorily completed the course receive commissions as second lieutenants in the Officers Reserve Corps of the United States Army.

PHYSICS.—The department of physics is housed in the west end of DeMeritt Hall. In the basement are located the introductory physics laboratory with apparatus room, an electrical measurement laboratory, a switchboard hall, a storage room and one small dark room. On the first floor are located the general physics laboratory and apparatus room, a recitation room and the department office. On the second floor is located the lecture room, with adjoining apparatus room.

Instruction in physics is given primarily by recitations and laboratories, with frequent lectures, examinations, written reports and personal conferences. The aim of the department is to develop student minds capable of doing independent thinking in the science of physics. There is a small but well chosen collection of apparatus for use in laboratories and lectures.

EQUIPMENT

POULTRY HUSBANDRY.—The equipment of the poultry plant consists of a permanent laying house housing 1,000 birds; a laying house housing 600 birds; a long type breed house of thirteen small pens for special breeding purposes; a permanent long type brooder house capable of brooding 5,000 chicks; battery brooder rooms with a capacity of 4,000 chicks to broiler age; an incubator cellar containing cabinet-type incubators of 1,400-egg and 8,000-egg capacity. Range shelters and colony brooder-houses are also available for the poultry plant operation.

The hens consist of Barred Plymouth Rocks, Single Comb White Leghorns, New Hampshire Reds, and White Wyandottes. Other breeds will be added. A portion of the flock is trap-nested for instructional and breeding purposes.

The poultry plant is operated for instructional and research purposes. Experiments are being conducted along the lines of feeding, breeding, brooding, with special emphasis on battery brooding, management, and diseases.

A special poultry pathology laboratory is maintained for diagnosis and research in poultry diseases. This laboratory is available for student instructional purposes.

ZOÖLOGY.—The University is favorably situated geographically for the study of zoölogy. Within a few minutes' walk of the laboratory, the Oyster River meets the tide water from Great Bay. This furnishes a graduation of salt, brackish and fresh water with an abundance of their characteristic fauna. On the other hand, there are numerous bodies of fresh water, with typical fresh water forms.

The department of zoölogy is prepared to offer courses in systematic zoölogy, physiology, sanitation, philosophical zoölogy, and anatomical zoölogy.

The equipment for the work in systematic zoölogy consists of a well-lighted laboratory, provided with tables, charts, dissecting and compound microscopes. All of the latest books and periodicals on systematic zoölogy are at the student's disposal.

The proximity to both salt and fresh water renders the work in advanced systematic zoölogy unusually attractive. In addition to the regular collecting equipment, nets, aquaria, etc., advanced students also have the use of rowboats and a gasoline launch.

In the work in physiology, hygiene and sanitation, the department is provided with an unusually fine collection of injected preparations of the human body, and with numerous charts.

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For work in evolution and experimental zoölogy the department has a very complete library. Studies in ecology in Great Bay and vicinity are encouraged, for which purpose the students have the use of camera equipment. In addition to the study of evolution under natural conditions the department also furnishes aquaria for laboratory study and experiments.

The work in anatomical zoölogy is greatly facilitated by an abundance of fresh material which may be collected as needed. For the study of human and comparative anatomy a full set of skeletons and preserved material is provided. Students interested in histology have access to a private collection of some two thousand microscope slides.

MUSEUM.—The museum had for a nucleus the collection made during the state geological survey. To this, additions have been made from various sources. Specimens are being collected to illustrate the zoölogy of New Hampshire, and New Hampshire collectors and naturalists are invited to make the museum the permanent depository of their collections.

GENERAL INFORMATION

EXPENSES

ESTIMATE OF FRESHMAN EXPENSES

	<i>High</i>	<i>Average</i>	<i>Low</i>
Room (Dormitories)*	\$120.00	\$72.00	\$63.00
Board (at Commons).....	200.00	200.00	200.00
Tuition**	150.00	150.00	75.00 and a scholarship
Uniform† .....	.....	.....	.....
Books	35.00	35.00	35.00
Laundry	35.00	20.00	15.00
Incidentals††	100.00	60.00	50.00
<hr style="width: 20%; margin: 0 auto;"/>			
Total	\$640.00	\$537.00	\$438.00
Expenses, Fall term§.....	\$260.00	\$210.00	\$170.00

TUITION—FOUR-YEAR STUDENTS.—Tuition is \$150 a year for residents of New Hampshire and \$250 for non-residents. Tuition is paid in advance in three equal installments, one on the first day of each term.

A diploma fee of \$5 is charged upon graduation. Charges will be assessed for extraordinary breakage or damage. No laboratory or course fees are charged. Payment of the tuition entitles the student (four-year, two-year) to admission to all home 'varsity athletic contests.

TUITION—TWO-YEAR STUDENTS.—Tuition for two-year students in agriculture is \$75 for residents of New Hampshire and \$175 for non-

* See bulletin on Residential Halls.

** If not a resident of New Hampshire add \$100 to high and average and \$175 to low. If a resident and not a holder of a scholarship, add \$75 to low.

† Uniform for members of the Reserve Officers' Training Corps is provided by the Federal government. A deposit of \$15 is required of each student to whom military equipment is issued.

†† Expenses for travel, clothing, etc., vary with the individual student, and should be added. The subscription price to *The New Hampshire*, the campus weekly newspaper, is \$1.50 per year. Subscriptions are taken during registration at the opening of the college year. Provision should also be made for participation in other student enterprises.

§ The greater proportional expense in the fall term is occasioned by the length of the session and the required uniform deposit payable at the opening of the year.

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residents. Tuition is payable in advance in three equal installments, one on the first day of each term.

Books.—Students may purchase books, drawing instruments, materials, etc., at the University Bookstore in Thompson Hall.

Rooms.—The University has three dormitories for women and five for men. *All men of the freshmen class will be assigned to rooms in Fairchild and East Halls.* All rooms are heated, lighted and furnished. Bed linen, quilts and towels, however, are provided by the individual student. Each women's dormitory is equipped with a laundry. Prices range from \$63 to \$120 a year for each man and from \$72 to \$111 for each woman student. Applications for rooms in the dormitories should be addressed to The Registrar, University of New Hampshire, Durham.

A Five-Dollar (\$5.00) Room Deposit must accompany each application, this deposit to be forfeited if the room accepted is not occupied by the applicant. The deposit is held as a guarantee against breakage and will be returned at the close of the year or upon withdrawal.

Room rent is payable in advance in three equal installments, one on the first day of each term except as noted below.

Rooms reserved will be held only until September 1st unless one-third of the annual rent is paid before that date.

Rooms paid for and not occupied one day after registration may be declared vacant and the room rent returned, unless the individual holding the reservation makes a written request to the Registrar to hold the room until a later date. The advance payment for the room will not be returned to those making this special request. No room will be reserved more than ten days after the registration date. Early application is necessary in order to secure a choice of rooms. Rooms in private dormitories or families may be secured for about the same prices as for those in college dormitories.

Women students, unless living at home, are required to room in one of the women's dormitories, or in approved houses. A competent matron is in charge of each women's dormitory.

BOARD.—A Dining Hall is operated and supervised by the University for the accommodation and benefit of the students. All freshmen, whose homes are not located in Durham are required to board at the University Dining Hall. The aim of the compulsory regulation is to insure a broad fellowship in the class, and to safeguard the health of

GENERAL INFORMATION

the first-year students by offering skilled dietetic oversight in the selection and preparation of their food. The Dining Hall is equipped with the best appliances for cooking and serving on a large scale, and is subject to constant sanitary inspection by the University Physician. Board is \$200 for the college year, payable \$70 at registration for the first term, and \$65 at registration for each of the second and third terms.

The Dining Hall is not operated for profit. Savings made possible by reduced costs of operation are passed along to the students in the form of reduced term board charges in the winter or spring terms.

A cafeteria is open to all students of the upper classes who may desire to take advantage of the low price and the high quality of food available at the University Dining Hall.

HOOD HOUSE.—The Health Department with the University Physician in charge is devoted to the prevention of sickness and the maintenance of the health and efficiency of the students. The Charles Harvey Hood House, a completely equipped and home-like infirmary and rest house, with a physician and trained nurse in charge, is available for use by all students.

CHECKING ACCOUNTS.—Students are earnestly urged to arrange checking accounts in their home banks or to place money on deposit in the Business Office until needed, in order to avoid possible loss resulting from keeping on hand considerable amounts of money. Such banking arrangements will also facilitate payment of registration bills which are strictly due and payable on registration day. The Business Office will accept and cash student checks.

SELF-SUPPORT.—A great many students earn their education in part by means of their own labor during summers and while in college.

Student Employment Committee.—In order to insure an equitable distribution of University part-time employment, a committee of the Faculty is charged with the responsibility of rating students for employment. The committee accepts no responsibility for the annual placement of students on jobs. Its only function is to try to see that only deserving students are certified as eligible to hold positions. Application blanks, obtainable at the office of the Dean of the Faculty, must be filled out and each student rated before he becomes eligible for a University position.

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Bureau of Appointments.—The University Bureau of Appointments assists in finding opportunities for men students for employment in faculty homes and about the village of Durham. In the fall and spring terms freshmen may secure work several afternoons a week doing such odd jobs or chores as taking care of lawns, gardens, furnaces, etc. By the end of freshman year they may reasonably hope to secure steady work, such as waiting on table, serving as janitor in one of the University buildings, etc. Students are urged not to count too much upon earning their way the first year, and should be sure of at least \$400 from other sources, a low estimate of the first year's expense. Inquiries from the men should be addressed to the Bureau of Appointments, Durham, N. H.

Women Students.—Employment for women students, except for positions in the University offices or departments, is in the hands of the Dean of Women, and inquiries from women students should be addressed to her.

UNIVERSITY AIDS TO STUDENTS

SCHOLARSHIPS.—A limited number of scholarships are awarded annually to deserving students. In order to grant scholarships equitably the University requires full information of all applicants relative to the necessity for scholarship aid. Scholarship application blanks will be provided upon request to the Dean of the Faculty.

These scholarships will be forfeited at any time for misconduct. A student placed on probation thereby forfeits his scholarship during the term or terms of probation.

A more detailed description of the several classes of scholarships follows:

State Scholarships.—To aid students who need and deserve financial assistance, the Trustees award 250 scholarships annually to residents of New Hampshire who have attended the University less than three terms. Each scholarship pays \$75 per year, and is good for one year only.

Applications for these scholarships must be returned to the Dean of the Faculty not later than July 15.

Recommendations for scholarships may be made by the subordinate and Pomona Granges, State Senators, State Federation of Women's Clubs, and citizens of New Hampshire.

Upon investigation and approval scholarships will be granted to those whose need appears to the committee to be the greatest.

SCHOLARSHIPS

Conant Scholarships.—These scholarships provided by the bequest of John Conant, of Jaffrey, pay \$75 at present and are good for one year. By terms of the bequest they are open to men taking agricultural courses and preference is given to residents of Cheshire County. Application should be made to the Dean of the Faculty.

Nancy E. Lougee Memorial Scholarships.—Since 1921 the interest on \$5,000 bequeathed by Amos D. Lougee, of Somersworth, has been expended for scholarships of \$75 each. They will be assigned each year and will be good for one year only. No applications can be approved without satisfactory evidence that the candidates *would be unable to attend without the aid of the scholarships*. Until July 15 of each year, preference will be given to residents of Strafford County. Application should be made direct to the Dean of the Faculty.

Valentine Smith Scholarships.—Through the generosity of Hamilton Smith of Durham, the sum of \$10,000 has been given to establish the Valentine Smith Scholarships.

“The income thus accruing shall be given to the graduates of an approved high school or academy who shall, upon examination, be judged to have the most thorough preparation for admission.”

These are the most remunerative general scholarships that the institution has to offer. They pay \$100 a year and are good for four years if reasonable scholarship is maintained.

Competitive examinations for these scholarships will be held in Thompson Hall at the University, September 16 and 17, 1935. Examinations will commence at 8 A.M. on Monday. Contestants must present the usual credentials fulfilling the requirements for entrance, and must pass examinations in English, American history, algebra (through quadratics), plane geometry and either physics or chemistry.

Requests for examinations should be forwarded to the Dean of the Faculty at least one week before the beginning of the examination period, and must state the names and addresses of the students, and the examinations desired.

Examinations are not restricted to residents of the state.

Class Memorial Scholarships.—In accordance with a communication presented to the Board of Trustees by the Alumni Association in 1922, each class upon graduation may establish a fund of \$3,000, the interest of which will be used in payment of a class scholarship, to be awarded by a committee appointed by the President. The respective classes

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shall forward recommendations to this committee which will investigate such recommendations before awarding the scholarships.

Scholarships shall be limited to candidates of the highest moral standards, physically sound, and preference shall be given to those who require financial aid in order to continue their education, and shall be dependent upon the same factors as govern the holding of other scholarships as regards grades.

Eighteen classes, 1922 to 1940, are expected to establish these scholarships, and each scholarship shall be dedicated to the name of one of the eighteen New Hampshire men who died in the service of his country during the World War. Nine classes have established their scholarships to date.

They are: Forrest Eugene Adams Scholarship, Class of 1922; Paul Edward Corriveau Scholarship, Class of 1923; Pitt Sawyer Willand Scholarship, Class of 1924; George Downes Parnell Scholarship, Class of 1925; Cyril Thomas Hunt Scholarship, Class of 1926; Donald Whitney Libby Scholarship, Class of 1927 and family; Frank Booma Scholarship, Class of 1928; Earle Roger Montgomery Scholarship, Class of 1929; Fred Weare Stone Scholarship, Class of 1930.

Ralph D. Hetzel Interscholastic Debating Scholarships.—The Board of Trustees on December 20, 1926, set aside three scholarships each year (each for three years) to be awarded to the three interscholastic debaters who may qualify under regulations defined by the Interscholastic Debating League or by the University. These scholarships are limited to residents of New Hampshire.

Hunt Scholarship.—A special scholarship paying \$75 has been established by the Trustees at the request of the United States War Department for the benefit of soldiers, or sons and daughters of soldiers, in the United States Army. This scholarship is named in honor of Colonel William E. Hunt, '99, and Colonel Charles A. Hunt, '01, who have rendered conspicuous and gallant service as officers of the Regular Army before, during and since the World War. This scholarship will be granted each year and will be good for one year only. Application should be made direct to the Dean of the Faculty. The application cannot be approved without satisfactory evidence that the candidate *would be unable to attend without the aid of scholarship*. Preference will be given to a New Hampshire soldier.

SCHOLARSHIPS

Concord Alumni Scholarship Fund.—The Concord Branch of Alumni of the University of New Hampshire recently voted to establish a scholarship fund. For the present, in accordance with the suggestion of the Concord Branch, money paid in from year to year will be employed as a part of the Student Loan Fund of the University. Ultimately, the principal and such interest as accrues will be transferred to a special scholarship fund.

Frank B. Clark Fund.—A trust fund of \$10,000 has been provided by Frank B. Clark of Dover, N. H., the income of which is to be used for the purpose of assisting and encouraging needy and worthy students who are suffering from physical impairment or deformity.

“Students impaired by the loss of an arm shall receive prior consideration.”

“The benefits of this gift are to be available to students in any secondary school or college except a secondary school or college which is under the direction or control of a church or religious affiliations or preferences, and with the further understanding that students at the University of New Hampshire shall be given prior consideration.”

Dads'-Hetzel Scholarship Fund.—At the second annual Dads' Day at the University, the fathers present voted to establish a scholarship fund to be known as The Dads'-Hetzel Fund and subscribed \$304. For the present this money will be employed as a part of the Student Loan Fund of the University. Ultimately the principal and such interest as accrues will be transferred to a special scholarship fund.

Edmund L. Brigham Scholarships.—The income of a trust fund of \$4,812, provided by the will of Edmund L. Brigham, a member of the Class of 1876, is divided into two scholarships of equal sums each to be known as the Edmund L. Brigham Scholarship. They will be awarded at the end of each year to the two members of the freshman class who under the pressure or necessity of having to earn a portion of their college expenses show either a constant improvement in scholarship, or a high scholastic average, or both.

New Hampshire Branch of National Civic Federation Scholarship.—From the income of a fund of \$1,000, established in June, 1930, by the New Hampshire Branch of the National Civic Federation, a scholarship is to be awarded annually to the junior woman majoring in economics or business who, at the end of her junior year, by excellence of

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scholarship, character and promise of leadership, is judged to be most worthy. The Dean of the College of Liberal Arts and the two ranking members of the Department of Economics shall name the winner of this scholarship in each year.

S. Morris Locke Memorial Scholarship.—The income of a fund of \$3,000 established by the late Mary D. Carbee of Haverhill, N. H., as a memorial to Mr. and Mrs. S. Morris Locke, shall be known as the S. Morris Locke Memorial Scholarship. This scholarship is to be awarded each year to the highest ranking junior majoring in chemistry, entomology, or in any work where the microscope or microscopic technique is largely employed, who has demonstrated outstanding qualities of application, industry and initiative in any of these fields of work.

Cogswell Scholarships.—Through the generosity of the Trustees of the Cogswell Benevolent Trust of Manchester there will be available to members of the Class of 1936, during their senior year, 20 scholarships of \$200 each and 10 of \$100 each. These scholarships will be given to members of the class whose general record of scholarship, attainments and conduct during the freshman, sophomore, and junior years are adjudged by a committee of the Faculty to be most worthy. The committee will scrutinize closely the record of the junior year, and will give weight not only to the general excellence of the scholarship record, but to growth and improvement as well. Prior consideration will be given by the committee to the achievements of the members of the class who are residents of the Town of Henniker and the City of Manchester.

Hood Scholarships.—Through the generosity of Charles H. Hood, '80, there are available to qualified students in the College of Agriculture whose aims are set definitely to promote farming as a life opportunity five scholarships of \$200 each. These scholarships are awarded to students who maintain high standards of scholastic excellence, strong characters and, in case of competition, are assigned in preference to students who intend after graduation to take up work relating to farm milk production.

George H. Williams Fund.—The income of the fund of \$9,900, bequeathed to the University by the late George H. Williams of Dover, New Hampshire, known as the George H. Williams Fund, shall be

LOAN FUNDS

used to award scholarships to deserving and meritorious students of Dover. This income shall be divided into four annual scholarships of equal value. These scholarships, awarded for one year only and not renewable, will be granted to men and women students, residents of Dover, for either the sophomore or junior year. Eligibility shall depend upon character, meritorious scholarship, self-help and evidence of financial need. Application should be made to the Dean of the Faculty.

The Ordway Fund.—Through the bequest of Martha H. Ordway, of Hampstead, made in 1934, the income from \$2,000 will be expended each year for the benefit of indigent students from Sandown or Hampstead, if any; otherwise for the benefit of other indigent students attending the University.

Distribution of Loan and Scholarship State Assistance Funds by the Student Aid Committee.—For the present "Cash Loans" will be granted to needy Juniors and Seniors and "Deferred Tuition Loans" to needy Sophomores. "Free Scholarships" and "Deferred Tuition Loans" will be granted to needy Freshmen and Two-Year Agricultural Students.

Exceptions to the above procedure may be made by vote of the Student Aid Committee.

CASH LOAN FUND.—Money will be loaned to needy juniors and seniors who are economical in their expenditures and who are working to pay a portion of their expenses. These loans will bear interest at 2 per cent until graduation or withdrawal from the University, and 5 per cent after graduation or withdrawal and are payable as follows: \$5 a month beginning one year after graduation or withdrawal; \$10 a month beginning two years after graduation or withdrawal; \$15 a month beginning three years after graduation or withdrawal; and a like sum each month thereafter until principal and interest are paid.

D. A. R. Loan Fund.—The Daughters of the American Revolution of New Hampshire have created a "Student Loan Fund" for the benefit of students of any educational pursuit. This fund is administered by the Student Aid Committee of the University.

The John H. Pearson Trust.—In coöperation with the trustees of the John H. Pearson Estate, Concord, N. H., a student loan fund

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known as The John H. Pearson Trust has been established, and is administered under the conditions governing the University Loan Fund.

James B. Erskine Loan Fund.—In 1930, a bequest of Dr. James B. Erskine, of Tilton, provided a fund of \$3,642 for loans to students; loans to bear interest at the rate of 5 per cent until paid. This fund will be reserved for members of the senior class.

S. Morris Locke Loan Fund.—Through a bequest of the late Mary D. Carbee of Haverhill, N. H., a fund has been created for loan purposes in memory of Mr. and Mrs. S. Morris Locke. The fund now totals \$18,364.

DEFERRED TUITION LOANS.—In order to enable students to attend the University who would be unable to do so without the aid of a loan, the University will grant loans to be applied toward tuition up to \$100 in each college year. These loans will bear interest at the rate of 2 per cent until graduation or withdrawal from the University, and 5 per cent after graduation or withdrawal, and are payable as follows: \$5 a month beginning one year after graduation or withdrawal; \$10 a month beginning two years after graduation or withdrawal; \$15 a month, beginning three years after graduation or withdrawal, etc.

PRIZES

Bailey Prize.—To endow the prize formerly offered by C. H. Bailey, '79, and E. A. Bailey, '85, a fund is being created by winners of the prize, the income of which will continue the prize for proficiency in chemistry.

Erskine Mason Memorial Prize.—Mrs. Erskine Mason of Stamford, Conn., has invested one hundred dollars as a memorial to her son, a member of the class of 1893, the income of which is to be given, for the present, to that member of the senior class who has made the greatest improvement during his course.

Interscholastic Debating Prize.—The University of New Hampshire Debating League was reorganized in 1921, and is under the direction of the instructor in debating and public speaking in the University. Any secondary school of the state is eligible for membership. Preliminary contests are conducted at the schools, and a final contest is held at the University to determine the winner of the League. A prize cup

PRIZES

is awarded in rotation to the winners. Other prizes, such as medals and certificates, are awarded to individual debaters from time to time.

Interscholastic Prize Speaking Contest.—This contest, for students of any accredited high school of the state (provided they have not already won the first prize in a previous year) was first held in May, 1912. Three prizes are provided by the University for the winners.

University Inter-Fraternity Scholarship Trophy for Men.—Through the generosity of Wilford A. Osgood, '14, who has donated trophies for similar purposes in the past, a plaque is donated which is to be awarded each year to that fraternity whose members have the highest scholastic standing as certified by the Registrar.

Diettrich Cup.—This cup was given by the class of 1916 in memory of Rosina Martha Diettrich, a member of that class, who died a few weeks before graduation. The cup is to be awarded each year to the girl who attains the highest scholarship in her junior year. The cup is to remain in her possession throughout her senior year and until the next winner is named.

The American Legion Award.—The New Hampshire department of the American Legion as a mark of recognition of the University's contribution in the World War, and as an expression of its interest in national defense, offers yearly a medal to that man in the senior class who has attained the highest distinction determined by achievement in military science, athletics, and scholarship. The name of the winner will be inscribed on a trophy. This trophy, made possible by the generosity of the American Legion of this state, is to remain in the permanent possession of the University.

Bartlett Prize.—Former Governor John H. Bartlett, Hon. '20, of Portsmouth, N. H., offers a prize of \$50 each year, to be awarded at Commencement to that New Hampshire student, a member of the Junior class, who ranks highest in scholarship for the year among those young men who have earned at least one-half their expenses since entering the University. This prize was awarded first in June, 1921.

Chi Omega Prize.—Mu Alpha Chapter of Chi Omega awards an annual prize of ten dollars at Commencement to the undergraduate woman student at the University who shall submit to the committee on

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award the best thesis on any subject dealing with problems of civic interest in sociology or economics. The title shall be approved by the head of the department concerned and the thesis shall be received, not later than June first, and graded by a joint committee composed of the heads of the departments of sociology, economics and English. If, however, no thesis is found by the committee to deserve the award, no prize shall be given.

Class of 1899 Prize.—The class of 1899 has given to the University a fund of \$500, the income to be used as a cash prize to be awarded “by the Faculty to the senior who in their opinion has developed the highest ideals of good citizenship.”

Phi Mu Medal.—The local chapter of Phi Mu offers a gold medal to a senior girl to be awarded on the following basis: 50 points for excellence in physical education, determined by both skill and the spirit in which the work is carried; the remaining 50 points must be attained by evidence of unusual scholastic capacity, democracy, loyalty, and helpfulness in college associations and activities. No candidate will be considered who does not have an average grade for her college work above 80.

Phi Sigma Prize.—In order to promote high scholarship in zoölogy and the allied sciences, the Phi Sigma national honor fraternity offers a prize of \$25 to be awarded at Commencement to that senior who ranks highest in zoölogical courses throughout the entire four years of collegiate work. The amount of work carried in biology, together with the average grade in all other courses shall be considered in making this award. The prize has been offered each year since 1921.

Hood Prizes.—Through the kindly interest and generosity of Charles H. Hood of the class of 1880, the income of funds given to the University in 1921 and in 1924 will be used for the encouragement, aid, and benefit of deserving students.

In accordance with the suggestion of the donor, for the present the income will be expended as follows:

First. *Hood Achievement Prize.*—A gold medal will be awarded annually to that member of the senior class whom the members of the three upper classes choose as giving the greatest promise of becoming a worthy factor in the outside world through his character, scholarship, physical qualifications, personal popularity, leadership and usefulness as a man among men.

PRIZES

Second. *Hood Dairy Prizes*.—A part of the Hood income will be devoted each year to paying a portion of the expenses of the members of a team or teams chosen for excellence in judging dairy cattle and sent to participate in intercollegiate or other dairy contests. Suitable medals will also be provided for the individual members of such teams.

Third. *Hood Supplementary Bequest*.—The income from this bequest will be used for the purchase of a suitably inscribed trophy to become the property of the University. The names of the winners of prizes in dairy cattle judging are to be inscribed annually upon this trophy which will thus serve as a permanent record to the institution of their skill and accomplishment.

The Fairchild Memorial Prizes.—In 1927 Mask and Dagger, the dramatic society of the University of New Hampshire, established two prizes of twenty-five dollars each to be awarded at each Commencement to the two seniors who have done the most to promote dramatics during their four years at the University. These prizes are given in memory of Edward T. Fairchild, late president of the University.

Thomas J. Davis Prize.—By gift of Thomas J. Davis, Duluth, Minn., a native and former resident of Durham, a fund has been provided for the establishment of dairy and household science prizes as follows:

First. For competitive judging of dairy cattle by "short course students," excluding all four-year students, and allowing a suitable handicap in favor of students who are taking a course of not more than four months.

Second. To young women taking a short course for competitive bread baking as a half unit and for dairy butter making as another half unit.

Locke Prize.—The income of a trust fund of \$3,000 bequeathed by the late Mary D. Carbee of Haverhill, N. H., as a memorial to Mr. and Mrs. S. Morris Locke, will be awarded at the end of each year to that junior majoring in Latin, who is adjudged by a committee of the Faculty to have excelled in the study of that language. In awarding the prize the committee shall give weight not only to the average grade in Latin, but also to the general record of scholarship, other attainments and character.

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Alpha Xi Delta Cup.—A cup will be awarded annually by the Alpha Xi Delta sorority to the senior girl who proves herself to be the best athlete in her class. The cup will be awarded on consideration of the following qualifications: good sportsmanship, physical fitness, athletic achievements, and superior skill. The cup will be awarded by a board of judges including the members of the department of physical education for women, the president of the Association of Women Students and the president of the Women's Athletic Association.

Mask and Dagger Achievement Prizes.—In 1929 and in 1930, Mask and Dagger established two annual prizes of twenty-five dollars each to be known as the Mask and Dagger Achievement Prizes. These are awarded each year to the seniors who, during their college courses, have made the most outstanding artistic contributions to the dramatic work of the University.

Edward Monroe Stone Cup.—This handsome cup, presented in 1929 by Edward Monroe Stone, '92, is awarded annually to any fraternity or sorority for superior ability in intra-mural forensics. The debates are conducted by the local chapter of Tau Kappa Alpha, whose plans and methods relative to the awarding of the cup are subject to the approval of the instructor in charge of forensics. The cup will become the permanent possession of any fraternity or sorority winning it three times in succession.

Psi Lambda Cup.—Psi Lambda, the home economics club, each year awards a cup to the Home Economics senior who has shown the greatest improvement in personality and scholarship during her four years in college.

Alpha Chi Omega Prize.—A ten dollar prize will be awarded annually by Alpha Tau Chapter of Alpha Chi Omega to the undergraduate student of the University who submits to the head of the department of English the best informal essay of less than three thousand words. The title may be chosen by the student. All essays must be written specifically for the Alpha Chi Omega Prize. Such essays will be due May 27 of each year. After the prize has been awarded, all essays will be returned upon request.

Delta Chi Trophy.—Delta Chi, honorary mathematics society, will present, at the end of each academic year, a silver cup to that member of the sophomore class, eligible for membership in the society, who

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during two years' courses in mathematics has demonstrated valuable mathematical ability, by ranking as one of the five high students in mathematics. General scholastic standing and personality shall also figure in determining the award. A committee consisting of the Dean of the College of Technology, the Dean of the College of Liberal Arts, the head of the department of Mathematics, the president of Delta Chi, and one other student member of the society shall determine the winner in each year.

Association of Women Students Award.—The Association of Women Students will award annually twenty-five dollars to the woman student who has proved to be of value to the women's student body, and who has shown by scholarship, self-help, leadership, and loyalty that she is worthy of this award.

Alpha Zeta Scholarship Cup.—A cup is awarded annually by the Granite Chapter of the Fraternity of Alpha Zeta to the sophomore in the College of Agriculture who has made the highest scholastic average during his first five terms' work. The winner is to have his name engraved on the cup and to hold it for one year.

General Chemistry Award.—The local chapter of Alpha Chi Sigma, professional chemistry society, engraves each year on a trophy placed in Charles James Hall, the name of the freshman who secures the highest average grade in chemistry.

Phi Lambda Phi Award.—Phi Lambda Phi, physics honor society, will award annually a prize of ten dollars to a senior member of the society who is most deserving, as revealed by proficiency in physics and general scholarship.

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STUDENT GOVERNMENT

STUDENT COUNCIL.—The Student Council exists to serve the undergraduate body as (a) a coördinating body between the University Administration and the student body, and to make recommendations to the Administration; (b) in coöperating with the student body, securing and assuring the highest interests of morale on the campus; (c) in creating a group of student leaders to initiate, supervise, and administer student affairs of common concern. Members of the Council are

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elected by ballot each spring. The President of the Association of Women Students meets with the Student Council during consideration of matters pertaining to the whole University.

ASSOCIATION OF WOMEN STUDENTS.—The purposes of this Association, as stated in the Constitution of the organization, are as follows: (a) to promote a sense of individual and collective responsibility among the women students in maintaining the highest standards of university life; (b) to promote the highest standards of honor and integrity in all matters of personal conduct; (c) to enact and enforce laws in all matters operating for the welfare of the women students and which do not fall under the immediate jurisdiction of the University Administration; (d) to encourage active coöperation in the work of self-government among the women of the University.

CASQUE AND CASKET.—A society which is composed of students of the upper classes, having an equal number of representatives from each fraternity. Its duty is to regulate the campus interfraternity relations. It is particularly charged with drawing rules governing the fraternity rushing period.

PAN HELLENIC.—An organization designed to transact all business of common interest to the women's fraternities, including the regulation of the rushing period.

RELIGIOUS ACTIVITIES

CHRISTIAN WORK.—Christian community service is encouraged by various activities.

The Advisory Board for Christian Work employs an inter-church student's pastor and a women's secretary. They coöperate with the Y.M.C.A. and Y.W.C.A. in the promotion of their work, as well as in carrying definite responsibility for the pastoral work among the students. General contributions are received yearly from the Baptist, Congregational, Methodist Episcopal, Episcopal, and Presbyterian organizations and the State Committee of the Y.M.C.A. Everything possible is done in a social and pastoral way for the students of all religious denominations, whether Protestant, Catholic or Hebrew.

Students receive a cordial welcome at the services of the Community Church (Congregational). Roman Catholic services are held every Sunday morning in the auditorium in Murkland Hall, and all students of that faith are urged to participate. Christian Work conducts Sun-

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day evening meetings, frequently with outside speakers, and other voluntary religious meetings, including occasional special assemblies with addresses of an inspirational character.

MENORAH SOCIETY.—A local chapter of the Intercollegiate Menorah Association for the study and advancement of Jewish culture and ideals. Organized in 1928.

NATIONAL HONOR AND PROFESSIONAL SOCIETIES

PHI KAPPA PHI.—A national honorary fraternity founded at the University of Maine in 1897 for the purpose of promoting the highest grade of scholarship. A chapter was established at the University in 1922. Its membership is taken from the highest ranking members of the Senior class. New members are elected at the beginning of the first and third terms.

ALPHA ZETA.—A national professional honor fraternity of agricultural students, organized at the University in 1903. Membership is honorary and is restricted to students obtaining high class standing or to graduates who have shown marked ability in agricultural study and research.

PHI SIGMA.—A national honor society for students doing major work in biology who have completed a certain number of subjects with honor grades. Established in 1915.

TAU KAPPA ALPHA.—A national honor society which takes its membership from students who have been outstanding in debate and oratory. Established on the New Hampshire campus in 1925.

KAPPA DELTA PI.—A chapter of the national educational society, organized from a local group formed on this campus in 1926.

ALPHA CHI SIGMA.—A professional fraternity with chapters in various colleges and universities. Members are elected from high ranking students whose major work is in the department of chemistry. Established on this campus in 1911.

SCABBARD AND BLADE.—A national honorary military fraternity. The New Hampshire Company (Company F, Sixth Regiment) was organized in 1926.

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BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—A student organization conducted in accordance with the By-Laws of the Institute, whose meetings are given a place on the student's class schedule. The purpose of the organization is to promote interest in electrical engineering, to foster acquaintance and good fellowship among the faculty and students in the Department of Electrical Engineering.

BRANCH OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—An organization of upperclass men in mechanical engineering. Holds regular class meetings for the presentation and discussion of engineering papers by members and by visiting engineers.

BRANCH OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS.—An organization of upperclass students in civil engineering. Regular class meetings are held for the purpose of investigating by reading and discussion various engineering topics of the day.

STUDENT PUBLICATIONS

"THE NEW HAMPSHIRE."—A weekly newspaper giving undergraduate and alumni news, published by an editorial board composed of students.

"THE GRANITE."—An illustrated annual published by the Junior class.

"THE NEW HAMPSHIRE STUDENT WRITER."—An annual collection of outstanding student compositions in prose and poetry. This publication is supervised by the Department of English.

DEPARTMENTAL CLUBS

BOOK AND SCROLL.—A literary society, composed of high ranking students in English.

PHI LAMBDA PHI.—An honor society whose members are students of high standing in Physics.

LE CERCLE FRANÇAIS.—This society was established in the spring of 1919 to offer competent students an opportunity to acquire a speaking knowledge of the French language and to arouse and stimulate an interest in the intellectual life of France.

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ALPHA SIGMA.—An organization established in 1925, whose membership is taken from high ranking students in Architecture.

DELTA CHI.—A society founded in 1925, whose membership is taken from high ranking students in Mathematics.

PSI LAMBDA.—A society composed of high ranking students in Home Economics. Established in 1926.

“N. H.” CLUB.—Membership in this organization is open to all men who have earned varsity athletic letters.

CLASSICAL CLUB.—This society, established in 1927, takes its members from students interested in Latin and Greek.

THE UNIVERSITY 4-H CLUB.—This organization is composed of students who have been engaged in boys' and girls' club extension work.

GAMMA KAPPA.—An organization, established in 1933, whose membership is taken from high ranking students in Geology.

DRAMATIC AND MUSICAL ORGANIZATIONS

MASK AND DAGGER.—This is a dramatic club which aims to make a practical study of the drama and to present each year three plays on the stage of the “little theater” in Murkland Hall. Membership in this society includes students who have participated in plays or who have assisted in stage production.

UNIVERSITY BAND.—This is a military and concert organization whose membership is taken from members of the University Regiment and selected students. Academic credit is given for successful completion of each term's work. The band plays at various University functions and games.

GLEE CLUB.—The Glee Club is divided into two organizations, one for men and one for women. Membership in the club is open to all undergraduates interested in choral singing who fulfill the requirements of a try-out. The club presents programs of choral singing several times each year.

ASSOCIATED STUDENT ORGANIZATIONS.—An organization composed of all extra-curricular activities, societies or groups for the purpose of securing a satisfactory administration of activity funds.

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ATHLETIC ASSOCIATION.—The Athletic Association, composed of the entire student body, was organized in 1897, for the conduct, in coöperation with the Administration and Faculty, of a wholesome program of intercollegiate sports. Every undergraduate automatically becomes a member of the Association at the time of registration. A ticket is issued to each student at that time which admits him to all home varsity athletic games.

OUTING CLUB.—This organization, established in 1915, chiefly interested in life outdoors, maintains two cabins near the campus, encourages winter sports, hiking and other forms of outdoor recreation. Membership is open to all students.

SOCIAL FRATERNITIES AND SORORITIES.—The following fraternities and sororities have chapters on the New Hampshire campus. The dates listed indicate (1) date of founding as local fraternity (in parentheses) and (2) date of granting of national charter.

Fraternities.—Kappa Sigma, (1894) 1901; Sigma Alpha Epsilon, (1894) 1917; Theta Chi, (1903) 1910; Lambda Chi Alpha, (1906) 1918; Alpha Tau Omega, (1907) 1917; Phi Mu Delta, (1914) 1918; Alpha Kappa Pi, (1921) 1931; Pi Kappa Alpha, (1921) 1929; Theta Upsilon Omega, (1921) 1925; Phi Alpha, (1922) 1924; Theta Kappa Phi, (1922) 1923; Alpha Gamma Rho, 1924; Phi Delta Upsilon, 1924; Tau Kappa Epsilon, (1926) 1932; Delta Epsilon Pi, 1927.

Sororities.—Chi Omega, (1897) 1915; Alpha Chi Omega, (1913) 1924; Alpha Xi Delta, (1913) 1914; Phi Mu, (1916) 1919; Kappa Delta, (1919) 1929; Theta Upsilon, (1926) 1930; Pi Lambda Sigma, 1929.

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Provided the special requirements of the separate colleges are fully met, the University will admit without examination properly prepared New Hampshire students who are graduates of high schools or academies of New Hampshire that are approved by the State Board of Education, or those who are graduates of other specially approved schools.

Applicants whose records do not give evidence of capacity, disposition, and preparation adequate for successful college study may be required to withdraw their applications or to submit to examinations to determine their fitness for college study. This applies directly to those who stand in the lowest quarter of their respective classes in the secondary school, and to others concerning whose qualifications there may be doubt. In so far as is practicable, officers of the University will arrange for personal conferences with such applicants.

The number of persons, not residents of New Hampshire, admitted each year is determined by vote of the Trustees and the following State law :

“The number of new students entering the University of New Hampshire from the states of Maine, Massachusetts, and Vermont shall not exceed eight per cent of the total enrollment of the entering class of the four-year course of the preceding University year ; and the enrollment of new students, exclusive of those from the states of New Hampshire, Maine, Massachusetts, and Vermont, shall not exceed four per cent of the total enrollment of the entering class of the four-year course of the preceding year.

Each applicant for admission to the University will be required to submit two application forms: (1) an “admission credential” blank filled out by the headmaster or principal of the secondary school from which he is graduated; (2) a “personal statement” blank filled out by the applicant. These blanks are distributed through New Hampshire and other secondary school officials or they may be secured by application to the Dean of the Faculty, at Durham, to whom all such blanks should be forwarded.

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In order to give ample time for the selection of the limited number of out-of-state students allowed, and for full investigation of New Hampshire applicants of doubtful preparation, it is desirable that applicants for admission, both from within and without the state, forward their personal statements and credentials during the month of April, it being understood that the preparatory school work will be completed in June. Credentials should cover work done as nearly as possible to date of application. However, candidates of doubtful record should not apply in April, but as soon as their work is completed in June.

Candidates for admission to the freshman class must show evidence, either by credential or examination, that they are prepared in 15 units as indicated in the following table. At least 12 of these units should be from Groups A, B, C, D, and E.

An entrance unit represents one study of four or five recitations a week for one year. It is assumed that two hours of manual training or laboratory work are equivalent to one hour of classroom work.

<i>• Required Units</i>	<i>College of Agri- culture</i>	<i>College of Lib- eral Arts</i>	<i>College of Tech- nology</i>
<i>Group A</i> English	3	3	3
<i>Group B*</i> Mathematics	2	2	3
<i>Group C</i> Social Science* and History	1	1	1
<i>Group D</i> Natural Science	1	1	1
<i>Group E</i> Foreign languages			
<i>Group F</i> Vocational Subjects			
	—	—	—
	7	7	8†
<i>Elective Units</i>	8	8	7
	—	—	—
Total for admission.....	15	15	15

Elective units may be offered from all groups, including a fourth year of English.

* At least two years of mathematics (one year of algebra and one year of plane geometry) are required for entrance except that a candidate for admission to the General Course of the College of Liberal Arts who offers two units in a single foreign language may substitute for the two units required in mathematics two additional units in subjects named in groups A, C, D and E above.

† Students entering the College of Technology must offer 15 units, three of which should include elementary and advanced algebra, plane geometry and solid geometry.

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Entrance examinations will be given at the University September 4 and 5. Requests for these examinations should be forwarded to the Dean of the Faculty at least one week in advance.

Cases not covered by the above statements will be decided by the entrance committee of the Faculty.

Candidates for advanced standing may be admitted on the basis of the work completed at the institution from which they come.

Every candidate for admission to the University shall be required to procure a statement, signed by the town or city clerk, to the effect that the father or legal guardian is a resident of the town or city and state from which he purports to register. Students admitted from foreign countries or states other than New Hampshire shall be deemed to be non-resident students throughout the entire University course unless and until the parents or legal guardian shall have gained residence in New Hampshire.

Admission of non-resident candidates will be by selection, and only records of good grade will be considered; character, leadership, alertness, etc., will also be taken into account. Because of the large number of New Hampshire students needing financial assistance in the form of employment, only a very limited number of applications can be considered which do not give evidence of reasonable financial backing.

FRESHMAN WEEK

Freshman Week was instituted at the University of New Hampshire in 1924. It is evident from a study of the results of the activities of this week that it has served as a valuable means of adjusting freshmen to their new environment, of creating right attitudes towards college work and of minimizing the usual delays during the first few weeks of the regular term. By means of so-called "placement tests" the students will be sectioned according to their abilities and aptitudes. The week also affords an opportunity for the students to learn to know each other, to organize their efforts, to work together, to play together, and to become acquainted with the campus, the buildings, the Faculty and with the courses of study and the traditions of the University.

Attendance of all freshmen throughout Freshman Week, beginning Tuesday, September 17, and continuing through Saturday, September 21, will be obligatory. Any prospective candidate for the freshman class who is absent from the exercises beginning on September 17 will seriously imperil his admission to the University.

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REQUIREMENTS IN DETAIL

GROUP A. ENGLISH

The requirement in English is that recommended by the National Conference on Uniform Entrance Requirements in English.*

"1. Habits of correct, clear, and truthful expression. This part of the requirement calls for a carefully graded course in oral and written composition, and for instruction in the practical essentials of grammar, a study which should be reviewed in the secondary school. In all written work constant attention should be paid to spelling, punctuation, and good usage in general as distinguished from current errors. In all oral work there should be constant insistence upon the elimination of such elementary errors as personal speech-defects, foreign accent, and obscure enunciation.

"2. Ability to read with intelligence and appreciation works of moderate difficulty; familiarity with a few masterpieces. This part of the requirement calls for a carefully graded course in literature.

Lists of books should be provided from which a specified number of units must be chosen for reading and study. These lists should be progressively difficult, ranging from the simpler books suitable to the earlier years in the secondary schools to those requiring the closer study warranted in the later years. Such lists should include the following:

Novels by Scott, Eliot, Dickens, Hawthorne, and Cooper; *The Merchant of Venice*, *King Henry V*, *As You Like It*, *Hamlet*, and *Macbeth*; Miltons' *Minor Poems*; Irving's *Sketch Book*; Coleridge's *Ancient Mariner*; the *Golden Treasury*; speeches by Washington, Burke, and Lincoln; collections of contemporary verse, of scientific writings, and of modern plays.†

GROUP B. MATHEMATICS

1. ELEMENTARY ALGEBRA.—The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and least common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear and quadratic equations, both numerical and literal. Problems depending on linear and quadratic equations. Radicals, including the extraction

* Reprinted from Document 123 of the College Entrance Examination Board.

† For more detailed information concerning the reading, write to Head, Department of English, University of New Hampshire, Durham, New Hampshire.

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of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

2. **ADVANCED ALGEBRA.**—The formula for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications. The theory and use of logarithms, without involving the use of infinite series. The binomial theorem for positive integral exponents. Complex numbers, with graphical representation of sums and differences. Determinants limited to simple cases. The elements of the theory of equations.

3. **PLANE GEOMETRY.**—The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the measurement of lines and plane surfaces.

4. **SOLID GEOMETRY.**—The usual theorems and constructions of good text-books, including the relations of lines and planes in space; the properties and measurement of prisms, pyramids, cylinders and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the measurement of surfaces and solids.

5. **PLANE TRIGONOMETRY.**—The subject-matter of plane trigonometry as presented in good text-books, including the solution and use of trigonometric equations of a simple character, the use of logarithms, the solution of right and oblique triangles, and practical applications.

6. **REVIEW MATHEMATICS.**—A general mathematics review during half of senior year is recommended, especially for students preparing for college engineering courses. A certificate covering the work of not more than one unit will be accepted for entrance.

GROUP C. SOCIAL SCIENCE AND HISTORY

This group includes History, Economics, and Commercial Law.

Although there are excellent text-books in history, an adequate preparation cannot be obtained by these alone. Some collateral work is necessary, whatever book is used, and with certain ones a large amount is necessary. The details of the preparatory work in the social sciences are stated in "The Program of Studies Recommended for the Public Schools of New Hampshire," by the State Board of Education.

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1. HISTORY OF CIVILIZATION.

2. ANCIENT HISTORY.—This may include the earliest nations and the period to 800 A.D., or it may be limited to Grecian History and Roman History to the fall of the Western Roman Empire.

3. MEDIAEVAL AND MODERN HISTORY.

4. ENGLISH HISTORY.

5. AMERICAN HISTORY AND CIVICS.—It is assumed that a reasonable amount of time is to be given to the study of the Constitution of the United States.

6. ECONOMICS.—The work in this field should consist of the mastery of a standard text or its equivalent assignments from one or more standard works. The study should introduce the student to the broad field of historical and descriptive Economics. This should include:

1. Elementary economic geography.
2. The leading facts in the economic history of the United States.
3. Human wants and their satisfaction.
4. A description of money and a brief study of its function.
5. Distribution, including some study of land, labor, capital.
6. Governmental relation and control of business.

For a more complete description see the "Program of Studies" recommended by the State Board of Education of New Hampshire.

7. COMMERCIAL LAW.—The work in Commercial Law should include a study of the elementary principles of the law of contracts, agency, sales, bailments, negotiable instruments, business organizations, personal and real property. (For a detailed statement, see "Program of Studies Recommended for the Public Schools of New Hampshire" by the State Board of Education.)

GROUP D. NATURAL SCIENCE

A notebook, carefully kept, and examined by the teacher, is an essential part of all laboratory work in science.

1. BOTANY.—The work in botany should consist of (1) the study of a standard text; (2) four or five exercises a week, at least one of which should be laboratory work. Either a half or the whole of a year's work will be accepted.

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2. CHEMISTRY.—Elementary inorganic chemistry should cover (1) a study of the more common non-metallic and metallic elements and their most important compounds; (2) an introduction to the general theoretical principles; (3) calculations based upon chemical equations and changes of gaseous volumes. A year's work should consist of four or five exercises per week, at least one of which should be in laboratory work.

3. PHYSICS.—The work in physics should consist of (1) the study of a standard text for one school year under the guidance of a science teacher. The minimum time devoted to this phase of the work should be four periods a week. (2) Performance of such experiments as the science teacher suggests, under the personal guidance of the teacher. The minimum time for this phase of the work, to include both performance of experiment and writing of report, should be two periods per week.

4. ZOÖLOGY.—A study of the fundamental principles of animal structure and the dissection of type forms. The student should become familiar with the characteristics of the various phyla of the animal kingdom. The study should consist of four or five exercises a week, at least one of which should be laboratory work. Either a half or the whole of a year's work will be accepted.

5. GENERAL SCIENCE.—To meet a recent movement in the disposition of the science work in the high schools, a course in general science which amounts to at least four exercises a week for one year will be accepted. Such a course may include something of the biologic and earth sciences, the sciences employed in household economy, and the more common phenomena of physics and chemistry.

GROUP E. FOREIGN LANGUAGES

1. FRENCH.—Work of the first year should include (1) careful drill in pronunciation, through dictation, conversation, and reading aloud; (2) drill upon the rudiments of grammar, with some translation of simple English into idiomatic French; (3) reading of 200 pages of French prose, if French is not the language of the classroom and a large amount of oral French is not used by teacher and pupils, or of 100 pages if French is the language of the classroom and the time

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saved by a reduced reading standard is devoted to oral work in French; in both cases the reading should be divided between some intensive, accurate study of the French prose, with translation into English to check up on the pupils' understanding of the passage, and some extensive reading to induce pupils to read French for the pleasure and satisfaction it affords.

Work of the second year should include (1) the reading of 300 or 400 pages of French prose, the amount to depend, as in the first year, upon the time devoted to oral work, the reading being again divided into intensive and extensive; (2) dictation, conversation, grammar drill, and composition, based on topics connected with the classroom and events of everyday life in France; (3) some practice in translating into French from English variations or paraphrases of the French texts read, so as to fix important words and idioms in the memory and to transpose the passive knowledge gained from reading into an active command of French.

Work of the third year should include (1) the reading of 500 or 600 pages of French, part intensively, part extensively, with emphasis on books of recognized literary value and on those which describe the history and civilization of France; (2) continued oral drill (dictation, discussions, etc.); (3) emphasis upon the writing of grammatically correct and idiomatic French dealing partly with the texts read, partly with the ordinary experiences of life here and in France.

2. GERMAN.—Work of the first year should include (1) careful drill in pronunciation; (2) drill upon the rudiments of grammar; (3) dictation and other oral work; (4) the reading of from 100 to 200 pages of prose; (5) translation of simple English into correct, idiomatic German. Work of the second year should include (1) the reading of from 200 to 300 pages of prose, part intensively to make the pupils acquire habits of accuracy, part extensively to encourage them to read for pleasure and satisfaction; (2) oral drill (dictation, discussions, reading aloud); (3) continued drill upon the rudiments of grammar, through exercises based upon the texts read and others dealing with life in Germany; (4) the study of German history, customs, and institutions through appropriate reading texts and composition exercises; (5) reading and memorizing of simple German lyrics.

3. LATIN, ELEMENTARY.—Grammar and the equivalent of four books of Caesar. Two years' work.

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4. **LATIN, ADVANCED.**—Equivalent of Virgil, six books, and Cicero, six orations.

GROUP F. VOCATIONAL SUBJECTS

1. **AGRICULTURE (SMITH-HUGHES).**—The work in agriculture covers ten periods a week throughout the school year and includes a study of and participation in the following, supplemented by at least six months of supervised, individual project work on the home farm :

- a. Major, contributory and minor agricultural enterprises in the community based upon the results of a survey of local farm practice.
- b. At least twenty per cent of the total time allotted each year is devoted to farm mechanics, comprising the daily jobs confronting the farmer in keeping his equipment in the best of condition and in doing the ordinary repair and construction work which arises on the farm.
- c. Agricultural economics and farm management are considered each year in relation to each of the three types of enterprises. In addition, part of the work of the senior year is devoted to a synthesis and extension of the principles applied in connection with the three types of enterprise in each of the three preceding years.

Centering around the farm job and the home project, the activities of the pupils include discussions, surveys, directed study, demonstrations, field trips and manual work.

2. **COMMERCIAL SUBJECTS.**—Junior business training, commercial arithmetic, bookkeeping, commercial geography and history, stenography and typewriting, office or secretarial practice.

3. **DOMESTIC ARTS.**—Textiles and clothing, foods and nutrition, the home, its care and management, the family and its members, and child development.

4. **MECHANIC ARTS.**—Cabinet making and wood turning, pattern making and molding, tool forging and work on lathe, shaper, planer, drill press and milling machine, electrical work, automobile mechanics and repair, printing, related mechanical drawing, shop mathematics, shop physics, mechanics, shop organization.

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SPECIAL COURSES

A mature student who is not a candidate for a degree may be admitted as a special student for one year upon the approval of the entrance committee and the dean of the college in which he desires to work. In addition, each application for a course must have the approval of the head of the department whose work the applicant desires to take. No credit earned by a special student shall count toward a degree except upon recommendation of the entrance committee and the vote of the appropriate college faculty.

ADMISSION BY TRANSFER

A candidate for admission to advanced standing from an institution of collegiate rank may receive credit without examination for work completed at such institution subject to the following requirements:

(1) He must present a catalog of the institution from which he comes together with an official certificate showing (a) all preparatory subjects accepted for entrance, (b) a complete transcript of his record including grade of scholarship in each subject, (c) a statement of honorable dismissal.

(2) All candidates for the bachelor's degree, admitted to advanced standing, must spend their last year in residence, either in course or in summer school. This requires the completion of at least 48 credit hours of work.

(3) Regardless of the amount of advanced standing a student may secure, in no case will he be given a bachelor's degree until he has satisfied the full requirements of the curriculum he may elect.

THE GRADUATE SCHOOL

AIMS

The Graduate School aims to meet the needs of superior students who are preparing to become teachers in colleges or universities, or investigators, and to offer opportunities to qualified students for a more advanced training than they can obtain in an undergraduate curriculum.

ADMINISTRATION

Graduate work is offered, under the supervision of the Dean of the Graduate School, by competent members of various departments of instruction and research. These members constitute the Faculty of the Graduate School.

The general administrative functions of the Faculty are delegated to the Dean and the Council.

ADMISSION

A student who holds a bachelor's degree, or its equivalent, from an approved college or university, is eligible for admission to graduate study.

Admission to graduate study does not necessarily imply admission to candidacy for an advanced degree. Students who are not planning to become candidates for an advanced degree may be admitted to graduate study upon the recommendation of the heads of the departments concerned, and with the approval of the Dean.

A student may major only in the departments represented in the catalog of the Graduate School. However, a graduate student who is not a candidate for an advanced degree may be admitted to graduate study in departments not represented in the Graduate School catalog, upon recommendation of the departments concerned and with the approval of the Graduate Council.

REGISTRATION

A student desiring to register for graduate study must submit to the Dean of the Graduate School the official application for admission to graduate study. Blanks for this purpose may be obtained from the Dean of the Graduate School.

Upon admission to graduate work, a student first pays his fee at the Business Office and deposits his enrollment cards with the Registrar.

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REQUIREMENTS FOR GRADUATE CREDIT

Graduate credit will not be allowed to undergraduate students unless such credit has been approved in advance by the Dean of the Graduate School.

A student will not receive graduate credit for a course in which he has obtained a grade lower than 70.

ADVANCED DEGREES

Two types of advanced degrees are conferred: (a) Master of Science, Master of Arts and Master of Education given only in course and (b) the professional degrees, Mechanical Engineer, Electrical Engineer and Civil Engineer conferred only upon graduates of this institution, and based upon the quality of their professional work and the presentation of a satisfactory thesis. Information in regard to the professional degrees may be obtained from the Dean of the College of Technology.

REQUIREMENTS FOR THE MASTER'S DEGREE

RESIDENCE.—A minimum of one full academic year, or four summer sessions, in residence, is required.

CREDITS.—An average grade of at least 80 in not less than 45 credit hours is required, of which not less than 25 or more than 30 credit hours shall be devoted to the major course (including the thesis), and not less than 9 or more than 15 credit hours to the minor courses. Work in allied departments may be properly correlated with the major course. Not over 15 credits may be given for a thesis. Of the total credits required for an advanced degree, not more than half will be accepted on admission from another institution.

CANDIDACY.—At least six months previous to the time the degree is sought an application for admittance to candidacy must be submitted to the Council for their approval; and if a thesis is required, the candidate must file with the Council, for their approval, a statement of the thesis subject as recommended by the head of the department in which the thesis work has been done.

THESIS.—All theses must be typewritten upon standard paper, eight and one-half by eleven inches, medium weight, neatly bound in black cloth, and gilt-lettered on the first cover with the title, name of author,

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degree sought, and year of graduation. The title page should bear the following statement :

“A thesis submitted to the University of New Hampshire in partial fulfillment of the requirements for the degree of Master of Arts (Master of Science) in (name of major subject), or Master of Education.”

Whenever a thesis is printed in any periodical, it must be designated as having been accepted as a Master's thesis by the University of New Hampshire.

Two bound copies must be filed before Commencement Day, one with the Librarian and one with the head of the department in which the major work has been done.

EXAMINATIONS.—All candidates must meet the regular departmental requirements as to examinations in the courses for which they are registered, and the requirement of a special comprehensive examination, by the heads of the departments in which the major and minor courses have been taken, three months previous to the time the degree is sought. In addition, the candidate must pass an oral examination by a special committee designated by the Council and including the heads of the departments in which the major and minor courses have been taken, before the candidate may be recommended for the Master's degree.

For detailed information concerning graduate study see catalog of the Graduate School.

PROFESSIONAL DEGREES IN ENGINEERING

Mechanical, Electrical, and Civil Engineering graduates of the University of New Hampshire are eligible to register as candidates for professional degrees in these three branches of engineering.

These degrees will be granted, after the preparation of acceptable theses, to those having not less than four years' professional experience subsequent to the bachelor's degree, in which the applicants have wholly or in part supervised, directed or designed engineering work; or have been in responsible charge of instruction or research in engineering. The acceptability of the theses and professional experience is determined by an examining committee.

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PROCEDURE.—The procedure for candidates for professional engineering degrees is as follows :

(1) Prepare an outline for a thesis after consultation with the head of the department concerned. This consultation may be by letter.

(2) When the thesis subject is accepted by the head of the department in which the degree is to be taken, the candidate will be registered in the Registrar's Office. This registration must be completed by October 1st of the academic year in which the degree is to be conferred.

(3) The first draft of the thesis must be submitted to the professor in charge not later than March 1st, and the completed thesis in its final form by May 1st.

(4) Pass an examination at the University covering the candidate's professional practice and the engineering principles underlying the thesis.

(5) Pay the diploma fee of \$5.00 at the Business Office not later than 12 noon of the Saturday next preceding the date when the degree is conferred.

THESIS.—The thesis must be typewritten upon standard paper, eight and one-half by eleven inches, medium weight, neatly bound in black cloth, and gilt-lettered on the first cover with title, name of author, degree sought, and year of graduation. The title page should bear the following statement :

“A thesis submitted to the University of New Hampshire in partial fulfillment of the requirements for the professional degree of Mechanical Engineer (Electrical Engineer, Civil Engineer).”

Whenever a thesis is printed in any periodical, it must be designated as having been accepted as a Professional Engineering thesis by the University of New Hampshire.

Two bound copies must be filed before Commencement Day, one with the Librarian and one with the head of the department in which the major work is done.

UNDERGRADUATE DEGREES

The University confers two undergraduate degrees: Bachelor of Science and Bachelor of Arts.

Agriculture and Technology: The degree of Bachelor of Science is conferred upon students graduating from the College of Agriculture and from the College of Technology.

Liberal Arts: The degree of Bachelor of Science is conferred upon students graduating from the College of Liberal Arts who have elected a prescribed curriculum in General Business, Home Economics, Pre-Medical, Professional Education, Social Service, Public Health Nursing or who have majored in the General Arts Curriculum in any of the following departments: Architecture, Botany, Chemistry, Economics and Accounting, Education, Entomology, Geology, Mathematics, Physical Education for Women, Physics, Sociology, Zoölogy.

The degree of Bachelor of Arts is conferred upon students graduating from the College of Liberal Arts who have elected a prescribed curriculum in Pre-Law or who have majored in the General Arts Curriculum in any of the following: Art in the department of Architecture, English, French, German, Latin, Spanish, History, Music, Philosophy, Psychology, Political Science.

COLLEGE OF AGRICULTURE REQUIREMENTS

Each candidate for a degree must complete 216 credits and the courses prescribed in one of the major four-year curricula.

Students graduating from the four-year curriculum in Animal Husbandry, Dairy Husbandry, Teacher-Training or General Agriculture must present to the Dean of the College of Agriculture, at least two weeks prior to Commencement, satisfactory evidence of having had practical experience in farm work, either through having lived on a farm for at least two years subsequent to the age of 12, or through having worked on a farm at least six months subsequent to the age of 16.

Students graduating from the Forestry Curriculum must have spent at least three months in practical forest work, in addition to attendance at an eight weeks' summer camp under supervision of the forestry department.

Students graduating from the Horticulture Curriculum or the Poultry Curriculum must have spent five months, including the spring term of the junior year, in supervised practice work on a farm of recognized standing.

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COLLEGE OF LIBERAL ARTS REQUIREMENTS

Each candidate for a degree must complete 192 credits, of which 96 must be with a grade of 70 or better, and either the General Liberal Arts Curriculum or one of the four-year prescribed curricula offered by the College of Liberal Arts.

YEAR-COURSES

Many courses in the College of Liberal Arts are continuous throughout the year and are designated as year-courses. Registration in September covers the entire year's work. Final grades and credit will be recorded by the Registrar's Office only when a year-course is completed in June. No student may enter a year-course except at the beginning of the year.

1. GENERAL LIBERAL ARTS CURRICULUM

A. General Requirements.

The completion of the following prescribed courses:

Convocation	Freshman, Sophomore and Junior years
Freshman Assembly	Freshman year—Fall term
*English 1-a, 2-b, 3-c	Freshman year
*English (a second year's work)	Sophomore, Junior or Senior years
Physical Education for Men	Freshman and Sophomore years
Physical Education for Women	Freshman, Sophomore and Junior years
Military Science	Freshman and Sophomore years

B. Group Requirements

The completion of two full years, elected from each of the following three groups of courses. Not less than one year's work in any given course shall count toward the fulfillment of this requirement.

Group I.

- (a) Mathematics
- (b) History
- (c) English, French, German, Latin, Spanish

Group II.

Botany, Chemistry, Entomology, Geology, Physics, Zoölogy

* Not to be used to meet group requirements.

UNDERGRADUATE DEGREES

Group III.

Contemporary Civilization, Economics, Education, Political Science, Psychology, Philosophy, Sociology.

C. Major Requirements.

Each student pursuing the General Liberal Arts Curriculum shall select during the freshman year a tentative program of study which must be approved by the Dean of the College of Liberal Arts. This program may be changed with the approval of the Dean at the beginning of any year. It shall include the selection of a major department in which the student must pass courses to a total of 45 credits. A grade of 75 or better must be obtained in at least 36 of these 45 credits. Courses ordinarily open to freshmen, or taken in the freshman year, may not be counted toward the fulfillment of the major program. Courses in other departments closely related to the major courses may be counted with the consent of the head of the major department.

2. PRESCRIBED CURRICULA (COLLEGE OF LIBERAL ARTS)

(a) The following prescribed curricula lead to a degree of Bachelor of Science: General Business; Professional Education; Home Economics, Teacher Training, Institutional Management, Extension Training; Pre-Medical; Social Service; Public Health Nursing, Hospital and Technician.

They require the completion of 192 credits, of which 96 must be with the grade of 70 or better. Students who elect a prescribed curriculum must satisfy the major requirements of the department in which the prescribed curriculum is offered, and complete the special curriculum requirements.

(b) The prescribed curriculum of Pre-Law leads to a degree of Bachelor of Arts. It requires the completion of 192 credits, of which 96 must be with a grade of 70 or better. Students who elect this curriculum must satisfy the major requirements of the department in which the prescribed curriculum is offered, and complete the special curriculum requirements.

COLLEGE OF TECHNOLOGY REQUIREMENTS

Each candidate for a degree must complete 216 credits and the courses required in one of the four-year curricula.

FOUR-YEAR CURRICULA

COLLEGE OF AGRICULTURE

M. GALE EASTMAN, *Dean*

DEPARTMENTS

AGRICULTURAL AND BIOLOGICAL CHEMISTRY	DAIRY HUSBANDRY
AGRICULTURAL ECONOMICS	ENTOMOLOGY
AGRONOMY (AGRICULTURAL ENGINEERING)	FORESTRY
ANIMAL HUSBANDRY	HORTICULTURE
BOTANY (BACTERIOLOGY)	POULTRY HUSBANDRY

The object of the four-year curricula of this College is to give a broad general education and thorough training in the basic sciences as well as to develop specific technical knowledge relating to the various phases of agriculture. To this end several subjects in the College of Liberal Arts and Technology have been added to those provided by the faculty in Agriculture. The lecture and recitation work of the classroom in agriculture is amply supplemented in all cases by practical exercises in the laboratories and about the farm. Seminars and discussion courses also are provided for seniors or other advanced students.

Many of the graduates of the four-year curriculum return to the farm for the purpose of putting into practice the knowledge and training gained in their college courses, and many of them have become successful and prosperous citizens of their communities; others, who have no farms of their own, accept salaried positions as superintendents or foremen on large dairy, fruit, stock or poultry farms; still others take positions as teachers of science and agriculture in our secondary schools, or as assistants in our agricultural colleges, experiment stations or extension services; and, finally, an increasingly large number continue in specialized work, here or elsewhere, toward graduate degrees.

The major curricula from which the agricultural student may make his selections are as follows:

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- | | |
|------------------------------------------|----------------------|
| 1. General Agriculture | 6. Entomology |
| 2. Agricultural and Biological Chemistry | 7. Forestry |
| 3. Animal Husbandry | 8. Horticulture |
| 4. Botany | 9. Poultry Husbandry |
| 5. Dairy Husbandry | 10. Teacher Training |

During the freshman and sophomore years, all agricultural students pursue the same general curriculum of fundamental work. During this period, a very few choices in electives or alternative courses are indicated. The purpose of such a scheme is to make possible a deferred decision by the student who is uncertain of his interests, and therefore cannot decide at once on a curriculum. However, there are definite advantages that accrue from making a proper selection of courses even in the freshman year, and students are urged to consider their aptitudes, discuss their problems with advisers, and heads of departments, and reach decisions as to their curriculum preferences during Freshman Week.

In the sophomore year, two alternatives are allowed in the required courses in addition to electives. Either Botany or Zoölogy may be taken, depending on the student's preference for courses relating to plant or animal life. Some opportunity for differentiation in Chemistry courses also is provided. Such fundamental choices behoove the student to ponder well his future course, and to decide carefully just what curriculum eventually is to be completed. Some highly technical or semi-professional curricula, such as Agricultural and Biological Chemistry, Entomology, Forestry, and Teacher-Training, involve certain sequences of courses for the whole four years, and so many of them that certain electives even in the freshman year must be prescribed. In such curricula, particularly, a change in curricula after the beginning of the sophomore year is wont to involve a considerable sacrifice in both time and effort. Changes between Animal Husbandry, Dairy Husbandry, Horticulture, and Poultry Husbandry may be possible later with less difficulty, but should be avoided as far as possible.

The earlier a student can decide on his curriculum, the easier it will be to complete the prescribed work for a degree, and the better the opportunity afforded him to choose electives in accordance with his own personal desires.

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Students should study well the general description of curriculum requirements in each department of interest. Under the proper department heading, a general statement of junior and senior requirements will be found, as well as the specific courses that must be completed in the freshman and sophomore years, to facilitate the student's progress toward graduation. Finally, every student should feel free to confer with the heads of departments in which he may be interested whenever there are problems concerning subjects or curricula.

GENERAL AGRICULTURE.—This curriculum is offered for the student who wishes to secure a broad, general training in many important branches of agriculture without specializing unduly in any particular department. To this end, it is assumed that the student will take during his four years a minimum of one three-term series of courses in at least ten of the following departments: Agronomy, Animal Husbandry, Agricultural Chemistry, Agricultural Economics, Botany, Chemistry, Dairy Husbandry, Economics, English, Entomology, Forestry, Horticulture, Mathematics, Physics, Poultry Husbandry, Zoölogy. A majority of these covering work in other colleges are required during the freshman and sophomore years, but several in the College of Agriculture may be elected in the freshman or sophomore years, and somewhat in accord with the student's future plans, or to facilitate his choosing some more specialized curriculum later. In addition to such of these courses as have not been completed by the end of the sophomore year, obviously other advanced and supplementary courses will be required in the junior and senior years. However, a considerably greater choice of subject matter is allowed in this curriculum than in the more specialized curricula.

Students who expect to engage in farming will find this so-called general curriculum with its wide range of fundamental courses a most profitable one. This curriculum should also prepare for extension work like that of a county agent, a boys' and girls' club leader, a marketing or farm management investigator, or a soils and crops specialist. For those expecting to specialize later in graduate work, the broad foundation of fundamental subject-matter made possible by this curriculum should provide a most desirable background.

During the freshman and sophomore years, a student in this curriculum should dispose of the first and second sequences of introductory courses in order to be fitted to pursue work in any department for the

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remainder of his course. Which course he elects in Mathematics or Chemistry, or whether to first take Botany or Zoölogy must depend on his plans for the junior and senior years. The completion of Agronomy 18-c in the first two years is desirable, if schedules permit.

AGRICULTURAL AND BIOLOGICAL CHEMISTRY.—Students majoring in this curriculum receive training in the various branches of general chemistry and in their application to the growth and development of plants and animals. The methods used in the chemical analysis of plants and agricultural products and in the study of animal nutrition and metabolism are given especial attention. Aside from the technical and general requirements, numerous electives are offered which enable the student to obtain a more general training, to select work in the applied departments of the college, or to obtain the professional work needed for teaching in the schools of New Hampshire. The curriculum is designed to provide a thorough foundation for those expecting to prepare themselves for teaching and research in colleges and experiment stations. The department is fortunate in being associated with the experiment station and in that connection having charge of the chemical analysis of feeds and fertilizers for the State Department of Agriculture. This furnishes an opportunity for the student to come in contact with the inspection and research work of the department and to have the benefit of its equipment.

Students who expect to pursue this curriculum must take Mathematics 1-a, 2-b, 3-c, in the freshman year and Chemistry 40-a, 41-b, 42-c, in the sophomore year. The requirement of one subject in the humanities may be waived under certain conditions at the discretion of the head of the department.

ANIMAL HUSBANDRY.—This curriculum is offered to the student who wishes a specialized training in the practical and intelligent management, selection, breeding and feeding of livestock, including horses, beef and dual purpose cattle, sheep and swine. This work is arranged so that the student may elect a reasonable number of courses in dairying, horticulture, forestry and other branches of general farm activity, thus fitting him for such work as the management of a general livestock farm. The curriculum also serves to prepare students for the more specialized requirements of civil service and other public employment, and as a foundation for advanced work in veterinary science and special livestock subjects.

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Each student majoring in this curriculum should elect as many courses in dairy production as possible, thus obtaining fundamental information about a closely related type of livestock.

Freshmen must complete the first introductory sequence. Animal Husbandry 2-c must be completed in the sophomore year. Agronomy 18-c, Entomology 1-a and Forestry 1-c are strongly recommended during the first two years. Agricultural Chemistry and Zoölogy are advised in the sophomore year.

BOTANY.—The majority of students majoring in Botany will doubtless continue to be recruited from the College of Liberal Arts. This curriculum is provided, however, in order that special aptitudes and inclinations, possessed by students in Agriculture, may be encouraged.

Students majoring in this department will be required to take an advanced English course in the sophomore year, and a foreign language in the junior year. Because of these requirements, the rule for humanities will be assumed to have been satisfied.

DAIRY HUSBANDRY.—Students majoring in Dairy Husbandry are offered specialized subjects in (1) Dairy Production, and (2) Dairy Products or Dairy Manufactures. Dairy production subjects include a study of the dairy breeds, and all phases of care, feeding, management, judging and selection of dairy cattle. Dairy Products courses include a study of market milk, tests of dairy products, dairy bacteriology and the manufacture of butter, cheese and ice cream. Students are thus given a training that prepares them to enter any one of several lines of activity in the dairy industry.

Freshmen are advised to take Mathematics 1-a, 2-b, 3-c if they intend to major in Dairy Products or Dairy Manufactures. In any case, the first introductory sequence must be completed in the freshman year. The first and third terms only of the second introductory sequence are desirable for electives in this curriculum. During the sophomore year, Dairy Husbandry 2-c must be taken. Agricultural Chemistry and Zoölogy, rather than Botany, are indicated. The completion of Agronomy 18-c before the close of the sophomore year is desirable, if schedules permit. Genetics is required in the junior year of students in the Dairy Production group. Accounting in the junior year is required of all students in the second group.

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ENTOMOLOGY.—The Department of Entomology offers various courses and selections of courses for students who wish to major in entomology, and especially for students who desire to secure training through which they can later take up one or another aspect of entomology as a profession.

There are several aspects into which entomology naturally divides itself. Each of these represents a definite field of specialization, and an opportunity for professional work according to the training that the student has had. There is definite advantage in deciding on this major early in the course of undergraduate training. Equipment for a professional position is based on suitable undergraduate work to be followed by more fully specialized graduate work.

Outlines of specific, suggested courses of study are available to the student on application at the department office. These outlines refer to the following specialized fields of entomological training, any one of which is offered by the department to students majoring in entomology.

General Entomology.—A broad selection of courses which furnish a suitable background for later specialization in the following: (a) life history studies of insects; (b) control of animal parasites; (c) systematic entomology; and (d) the relation of insects to their environment. Students who are interested in entomology in general, but have not yet determined what special field they might wish to enter, may take this grouping of courses.

Toxicology.—This specialized field relates particularly to the control of insects by chemical means. It is a professional field that is rapidly developing. A student who elects it will be given extensive training in chemistry as well as entomology, and in graduate work will be expected to give considerable attention to insect physiology.

Medical Entomology.—The undergraduate training looking toward specialization in medical entomology includes courses in zoölogy and human physiology, as well as studies in the life histories of important insects that serve as the transmitting agents for various human diseases and in the means of control of such diseases through control of the insects that transmit them.

Forest Entomology.—This aspect of entomology is closely related to the study of forest practices. Students who specialize in this field will take certain courses in forestry as well as fundamental entomol-

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ogy and specialized studies in the life histories of insects attacking forest and shade trees.

Biologic Control.—Certain fundamentals of general entomology are taken up in the subjects studied by a student majoring in this aspect of entomology. In addition special attention is given to the relation of various natural enemies to insects, including insect parasites and the effects of fungous and bacterial diseases upon insect life and abundance.

In the freshman year, Mathematics 1-a, 2-b, 3-c must be completed. French and German will be required and one may well be taken in either the freshman or sophomore year. One of these may be used to meet the humanities requirement. The second introductory sequence is indicated and the first may be desirable in anticipation of later work.

FORESTRY.—The training and instructional work in Forestry is intended to meet the needs of three classes of students: (1) those who wish to secure four years' training in the science and practice of forestry; (2) those who wish to fit themselves for positions in the lumber business; and (3) those who desire a foundation for professional or graduate work in forestry. All students take the same work during the first two years, and their courses of study as juniors and seniors must depend on their records as freshmen and sophomores.

General Group.—This group includes those students who wish to secure a sound training in forestry, but who do not care to spend more than four years in college. Considerable latitude is given in the courses which the student may elect, but his efforts are directed toward securing a general education which will be of assistance to him in case he goes into some other line of work after graduation.

Business Group.—The student who chooses this course of study receives a satisfactory training in the fundamental principles of forestry, and, in addition, elects certain subjects in the field of business administration.

Professional Group.—This course of study is designed to fit the student for advanced work at some other institution, where he will be able to satisfy the requirements for an M.F. degree in one year. Students who plan to enter the United States Forest Service, to become teachers, research workers, or consulting foresters, should elect this

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course. The requirements, however, are somewhat higher for this group than for the others, and only qualified students will be encouraged to undertake it.

All freshmen are expected to take the third introductory sequence of courses, and one of the humanities. Sophomores should complete two terms of Agricultural Chemistry, Civil Engineering 6-c, and Botany rather than Zoölogy. One of the more advanced forestry sequences should also be taken during the sophomore year.

HORTICULTURE.—The student specializing in horticulture may secure training in (1) fruit growing, (2) vegetable growing, or (3) ornamental horticulture. The instruction in fruit and vegetable growing prepares for intelligent and resourceful production and marketing of these crops, or, supplemented by further post-graduate study, may fit the student for professional positions in teaching, research or extension work.

The course in ornamental horticulture is designed to fit the student for work on parks, large private estates, or with nursery companies. It is not designed to prepare professional landscape architects.

Major students in the department must elect a minimum of 54 term credits of advanced horticultural and related courses. The study of economics, of plant physiology, and of the control of insects and diseases, which are fundamental to all horticultural work, is required. Similarly, subject matter in other departments, fundamental to the student's chosen field of work, may be required at the discretion of the head of the department.

Mathematics 1-a, 2-b, 3-c, in the freshman year, is highly desirable for students who expect to do graduate work in this field. The first and second introductory sequences are recommended for completion before the junior year. Botany is indicated. Agronomy 18-c is needed by students in Ornamental Horticulture.

POULTRY HUSBANDRY.—The course in Poultry Husbandry is adapted in general to three classes of students: (1) those who desire a training in preparation for the operation of their own poultry farms or hatcheries; (2) those who desire to enter fields allied with poultry; and (3) those who wish professional training in preparation for graduate study.

As a part of the prescribed work, the student who has not had sufficient previous experience will be required to spend five months,

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including the spring term of the junior year, at a commercial plant of recognized standing.

During the freshman year, the first introductory sequence must be completed. The second sequence is desirable but may be deferred to the sophomore year if schedules permit. As Agricultural Economics 4-b cannot be scheduled in the junior year, its inclusion in the sophomore schedule is permitted. Similarly Agronomy 1-a and 18-c may be taken to advantage in the sophomore year, if time permits. Agricultural Chemistry (two terms), and Zoölogy are required.

TEACHER TRAINING.—Under the provisions of the Smith-Hughes Act, the University of New Hampshire has been designated as the institution in this State for the training of teachers of agriculture. This curriculum gives the young man a broad training in the fundamental sciences and in general agriculture. In addition, he receives professional training in such educational subjects as psychology, principles of education, methods of teaching in supervised practice teaching. Students who complete the curriculum and who have had the requisite amount of practical experience on a farm will be accredited as teachers.

There is a rapidly increasing demand for teachers of agriculture in our secondary schools. Local school boards are beginning to appreciate more fully the value of instruction in agriculture for the boys of the community who will not have the opportunity to continue their studies at the University. As a result, there are many good positions open for the young men who wish to make the teaching of agriculture a profession.

During the freshman and sophomore years the first, second and fourth introductory sequences should be completed for the best foundation in this curriculum. Later required work makes the election of a humanity unnecessary. Agronomy 1-a and 18-c are desirable electives for the sophomore year, if the student has ability to carry extra work.

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FRESHMAN YEAR

All Curricula

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
Mil. Sci. 1-a, 2-b, 3-c	1½	1½	1½
Phys. Ed. 51-a, 52-b, 53-c	½	½	½
Chem. 1-a, 2-b, 3-c (<i>Inorganic Chemistry</i>)	4	4	4
Eng. 1-a, 2-b, 3-c (<i>English Composition</i>)	3	3	3
Math. 1-a, 2-b, 3-c (<i>First Year Mathematics</i>) or	3-5	3-5	3-5
Math. 21-a, 22-b, 23-c (<i>Elements of Mathematical Analysis</i>)			
Elective	4 or 6	4 or 6	4 or 6
	18	18	18

Suggested introductory sequences of electives in the freshman year:

1. Animal Husbandry 1-a; Horticulture 3-b; Poultry Husbandry 1-c
2. Entomology 1-a; Dairy Husbandry 1-b; Forestry 1-c, or Horticulture 1-c
3. Forestry 3-a, 4-b, 5-c
4. Geology 101-b; Mechanical Engineering 13-c

SOPHOMORE YEAR

All Curricula

Convocation (<i>Required</i>)			
Mil. Sci. 4-a, 5-b, 6-c	1½	1½	1½
Phys. Ed. 54-a, 55-b, 56-c	½	½	½
Physics 1-a, 2-b, 3-c (<i>Introductory Physics</i>)	4	4	4
Agr. Chem. 1-a, 2-b, 20-c* (<i>Agricultural Chemistry</i> ; <i>Animal Nutrition</i>) or	5	5	5
Chem. 40-a, 41-b, 42-c (<i>Organic Chemistry</i>)			
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>) or	4	4	4
Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>)	3	3	3
Elective	3	3	3
	18	18	18

* In curricula other than Animal Husbandry and Dairy Husbandry, other courses may be substituted in third term.

During the sophomore year, additional courses from the introductory sequences may be completed, or some of the following may be indicated:

Agricultural Economics 3-a, 4-b	Economics 1-a, 2-b, 3-c
Agronomy 1-a, 18-c	Entomology 3-a or 2-b, 4-c, 13-c
Animal Husbandry 2-c	Forestry 6-a, 7-b, 8-c or
Civil Engineering 6-c	Forestry 9-a, 10-b, 11-c
Dairy Husbandry 2-c	

NOTE.—One course in the humanities should be elected through one year either as a freshman or as a sophomore. (See humanities and other electives following.)

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COURSES THAT MAY BE USED TO SATISFY THE HUMANITIES REQUIREMENT

FRESHMAN YEAR

Any foreign language English 4-a, 5-b, 6-c English 7-a, 8-b, 9-c Geology 1-a, 2-b, 3-c History 1-a, 2-b, 3-c Mathematics 120-c	French, German, Spanish Summary of English Literature Play Production (if qualified) Principles of Geology Introduction to Contemporary Civilization Astronomy
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SOPHOMORE YEAR

Economics 6-a, 7-b, 8-c English 25-a, 26-b, 27-c English 47-a, b, c History 25-a, 26-b, 27-c Philosophy 24-a, 25-b, 26-c Political Science 25-a, 26-b, 27-c Political Science 28-a, 29-b, 30-c Psychology 21-a, 22-b, 23-c Sociology 25-a, 26-b, 27-c	Economic and Commercial Geography and Development Advanced Composition and News Writing Public Speaking The United States Since 1800 The Philosophy of Modern Life Citizenship American Government Psychology Principles of Sociology
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GENERAL AGRICULTURE

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Agr. Econ. 3-a, 4-b (<i>Rural Economics; Farm Accounting</i>)	3	3	
Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>)	4	3	3
A. H. 2-c or D. H. 2-c (<i>Livestock; Dairy Cattle Judging</i>)			2
Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>)	3	3	3
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>) or Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>) }	4	4	4
Elective	4	5	6
	18	18	18
*Agron. 7-b, 8-c (<i>Agricultural Engineering</i>)		3	3
*A. H. 10-b, 9-c (<i>Horse, Cattle, Sheep and Swine Management</i>)		4	4
*Bot. 8-a, 8.5-b, 9-c (<i>Bacteriology</i>)	4	4	4
*Ent. 3-a, 2-b, 4-c or 13-c (<i>Animal, Horticultural, Household, Forest Insects</i>)	3	3	3
*Geol. 101-b (<i>Elementary Geology</i>)		3	
*Zoöl. 32-a (<i>Genetics</i>)	3		

SENIOR YEAR

Agr. Econ. 2-a, 1-b (<i>Farm Management; Coöperative Marketing</i>)	4	3	
A. H. 3-a (<i>Feeds and Feeding</i>)	3		
Eng. 101-a, 47-c (<i>Expository Writing; Public Speaking</i>)	2		3
Elective	9	15	15
	18	18	18
*Agron. 15-a, 3-b, or 5-b, 9-c (<i>Soil Management; Field Crops; Electric Farm Power; Farm Power</i>)	3	3-4	3
*D. H. 3-a, 3.5-b, 4-c (<i>Milk Production; Testing Products</i>) ..	4	3	3
*Hort. 20-a (<i>Beekeeping</i>)	2		
*Others from junior list			

*Recommended electives.

COLLEGE OF AGRICULTURE

AGRICULTURAL AND BIOLOGICAL CHEMISTRY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Bot. 8-a, 8.5-b, 9-c (<i>Bacteriology</i>)	4	4	4
Chem. 25-a, 26-b, 27-c (<i>Introductory Quantitative and Qualitative Analysis</i>)	3	3	3
French or German 1-a, 2-b, 3-c	3	3	3
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>) or }	4	4	4
Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>) }			
Elective	4	4	4
	18	18	18
*A. H. 3-a; Hort. 10-b or Ent. 2-b; For. 18-b, 19-c (<i>Feeds; Evolution and Improvement of Plants; Orchard Insects; History of Forestry</i>)	3	3	3
*Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>)	3	3	3
*Met. 1-a (<i>Elementary Meteorology</i>)	3		

SENIOR YEAR

Agr. Chem. 4-a, 5-b, 21-c (<i>Physiological</i>)	5	5	5
Agr. Chem. 7-a, 8-b, 9-c (<i>Agricultural Analysis</i>)	4	4	4
Bot. 6-a, 4-b, 5-c (<i>Plant Histology and Physiology</i>)	2	4	4
Electives	7	5	5
	18	18	18
*Agr. Econ. 3-a, 4-b (<i>Rural Economics; Farm Accounting</i>) ...	3	3	
*Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>)	4	3	3
*Eng. 101-a, 47-c (<i>Expository Writing; Public Speaking</i>)	2		3
*Zoöl. 42-a, 43-b, 44-c (<i>Advanced Physiology</i>)	4	4	4

* Recommended electives.

UNIVERSITY OF NEW HAMPSHIRE

ANIMAL HUSBANDRY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Agr. Econ. 3-a, 4-b (<i>Rural Economics; Farm Accounting</i>)....	3	3	
Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>).....	4	3	3
A. H. 2.5-c (<i>Advanced Livestock Judging</i>).....			2
A. H. 4-a, 5-b, 6-c (<i>Anatomy; Diseases Farm Animals</i>)	3	3	3
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>).....	4	4	4
Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>).....	3	3	3
Elective.....	1	2	3
	18	18	18
*Agron. 7-b, 8-c (<i>Agricultural Engineering</i>).....		3	3
*Econ. 18-c (<i>Marketing</i>).....			3
*Ent. 3-a (<i>Insects of Domestic Animals</i>).....	3		
*Hort. 23-a, 1-c (<i>Fruits; Vegetables</i>).....	3		3
*Zoöl. 32-a (<i>Genetics</i>).....	3		

SENIOR YEAR

Agr. Econ. 2-a, 1-b (<i>Farm Management; Coöperative Marketing</i>).....	4	3	
A. H. 3-a, 10-b, 9-c (<i>Feeds; Horses, Cattle; Sheep, Swine</i>)...	3	4	4
A. H. 8-a, 7-b, 12-c (<i>Markets; Breeding; Seminar</i>).....	3	4	2
Eng. 101-a, 47-c (<i>Expository Writing; Public Speaking</i>).....	2		3
Elective.....	6	7	9
	18	18	18
*Agron. 3-b (<i>Field Crops</i>).....		3	
*Agron. 5-b, 9-c, 18-c (<i>Power; Agricultural Drawing</i>).....		4	3+2
*D. H. 3-a, 3.5-b, 4-c (<i>Milk Production; Testing Products</i>)..	4	3	3
*Hort. 20-a (<i>Beekeeping</i>).....	2		
*Others from junior list.....			

* Recommended electives.

COLLEGE OF AGRICULTURE

BOTANY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>).....			
Bot. 6-a, 4-b, 5-c (<i>Plant Histology; Physiology</i>).....	2	4	4
Bot. 8-a, 8.5-b, 9-c (<i>Bacteriology</i>).....	4	4	4
Language 1-a, 2-b, 3-c (<i>French or German</i>).....	3	3	3
Elective.....	9	7	7
	18	18	18
*Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>).....	4	3	3
*Hort. 2-a, 9-b, 9.5-c (<i>Floriculture</i>).....	3	2	2
*Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>).....	4	4	4

SENIOR YEAR

Bot. 12-a, 13-b, 18-c (<i>Plant Pathology; Systematic</i>).....	3	3	2
Bot. 14-a, 15-b, 16-c (<i>Advanced Botany</i>).....	3	3	3
Elective.....	12	12	13
	18	18	18
*Agr. Chem. 4-a, 5-b, 21-c (<i>Physiological</i>).....	5	5	5
*Agron. 15-a, 3-b, 16-c (<i>Advanced Soils and Crops</i>).....	3	3	3
*Chem. 40-a, 41-b, 42-c (<i>Organic Chemistry</i>).....	5	5	5
*For. 3-a, 4-b, 5-c (<i>Forest Dendrology; Identification; Improvement</i>).....	3	3	3
*Others from junior list.....			

* Recommended electives.

UNIVERSITY OF NEW HAMPSHIRE

DAIRY HUSBANDRY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>)	4	3	3
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>)	4	4	4
Bot. 8-a, 8.5-b (<i>Bacteriology</i>)	4	4	
D. H. 9-c (<i>Dairy Bacteriology</i>)			5
Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>)	3	3	3
Elective	3	4	3
	18	18	18
*Acct. 112-a, 113-b, 114-c (<i>Elementary Accounting</i>)	4	4	4
*Agr. Econ. 3-a, 4-b (<i>Rural Economics; Farm Accounting</i>) ..	3	3	
*Agron. 7-b, 8-c (<i>Agricultural Engineering</i>)		3	3
*D. H. 11-c, 12-c (<i>Advanced Judging Dairy Cattle; Products</i>) ..			3
*Zoöl. 32-a (<i>Genetics</i>)	3		

SENIOR YEAR

Agr. Econ. 2-a, 1-b (<i>Farm Management; Coöperative Marketing</i>)	4	3	
A. H. 3-a (<i>Feeds and Feeding</i>)	3		
D. H. 3-a, 3.5-b, 4-c (<i>Milk Production; Testing Products</i>) ..	4	3	3
D. H. 6-b, 10-c (<i>Ice Cream, Cheese Making; Seminar</i>)		4	2
D. H. 5-a, 7-b, 13-c (<i>Market Milk; Butter; Research</i>)	4	3	4
Eng. 101-a, 47-c (<i>Expository Writing; Public Speaking</i>)	2		3
Elective	1	5	6
	18	18	18
*Agron. 3-b, 5-b, 18-c (<i>Field Crops; Power; Agricultural Drawing</i>)			2
*A. H. 5-b, 9-c (<i>Diseases Farm Animals; Sheep and Swine</i>) ..		3-4	4
*Hort. 20-a (<i>Beekeeping</i>)	2	3	
*Others from junior list			

* Recommended electives.

COLLEGE OF AGRICULTURE

ENTOMOLOGY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>).....			
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>) or }.....	4	4	4
Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>) }			
Bot. 8-a, 8.5-b, 9-c (<i>Bacteriology</i>).....	4	4	4
Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>).....	3	3	3
Ent. 5-a, 6-b, 7-c (<i>Advanced Economic Entomology</i>).....	3-5	3-5	3-5
Elective.....	2-4	2-4	2-4
	18	18	18
*Chem. 25-a, 26-b, 27-c (<i>Quantitative and Qualitative</i>).....	3	3	3
*Language 1-a, 2-b, 3-c (<i>French or German</i>).....	3	3	3
*Zoöl. 13-a, 14-b, 15-c (<i>Hygiene and Sanitation</i>).....	3	3	3

SENIOR YEAR

Ent. 8-a, 9-b, 10-c (<i>Advanced Economic Entomology</i>).....	3-5	3-5	3-5
Elective.....	13-15	13-15	13-15
	18	18	18
*Agr. Chem. 4-a, 5-b, 21-c (<i>Physiological</i>).....	5	5	5
*Bot. 6-a, 4-b, 5-c (<i>Plant Histology; Physiology</i>).....	3	3	3
*Bot. 12-a, 13-b, 18-c (<i>Plant Pathology; Systematic</i>).....	3	3	2
*Chem. 40-a, 41-b, 42-c (<i>Organic</i>).....	5	5	5
*Chem. 152-a, 153-b, 154-c (<i>Advanced Organic</i>).....	3	3	3
*For. 6-a, 7-b, 8-c (<i>Forest Mensuration</i>).....	3	3	3
*For. 9-a, 10-b, 11-c (<i>Silviculture</i>).....	3	3	3
*Zoöl. 36-a, 37-b, 38-c (<i>Histology</i>).....	4	4	4
*Others from junior year.....			

* Recommended electives.

UNIVERSITY OF NEW HAMPSHIRE

FORESTRY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>).....			
Agron. 4-a (<i>Soils</i>).....	4		
C. E. 7-a (<i>Topographic Surveying</i>).....	3		
For. 6-a, 7-b, 8-c (<i>Forest Mensuration</i>) or }.....	3-4	3-4	3-4
For. 9-a, 10-b, 11-c (<i>Silviculture</i>) }			
H. E. 65-c (<i>Camp Cookery</i>).....			1
Elective.....	7-8	14-15	13-14
	18	18	18
*Agr. Econ. 3-a (<i>Rural Economics</i>).....	3		
*Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>).....	3	3	3
*Ent. 1-a, 13-c (<i>Principles; Forest Insects</i>).....	4		3
*For 13-b, 14-c (<i>Forest Utilization</i>).....		3	3
*For. 15-b, 16-c (<i>Thesis</i>).....		3-5	3-5
*For. 26.5-a (<i>Fish and Game Management</i>).....	3		
*Language 1-a, 2-b, 3-c (<i>French or German</i>).....	3	3	3
*M. E. 17-b, 13-c (<i>Forging; Wood Shop</i>).....		3	2
*Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>).....	4	4	4

SUMMER CAMP

For. 25-s (Summer Camp) 8 weeks; 12 credits.

SENIOR YEAR

Eng. 101-a, 47-c (<i>Expository Writing; Public Speaking</i>).....	2		3
For. 17-a (<i>Thesis</i>).....	3-5		
For. 22-a, 23-b, 24-c (<i>Forest Management</i>).....	3	3	3
Elective.....	8-10	15	12
	18	18	18
*Agron. 18-c (<i>Agricultural Drawing</i>).....			2
*Bot. 6-a, 4-b, 5-c (<i>Plant Histology; Physiology</i>).....	2	4	4
*Bot. 12-a, 13-b, 18-c (<i>Plant Pathology; Systematic</i>).....	3	3	2
*For. 18-b, 19-c (<i>History of Forestry</i>).....		3	3
*For. 20-a, 21-b (<i>National Forest Administration</i>).....	3	3	
*Met. 1-a (<i>Elementary Meteorology</i>).....	3		

* Recommended electives.

COLLEGE OF AGRICULTURE

HORTICULTURE

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>).....			
Bot. 8-a, 8.5-b (<i>Bacteriology</i>).....	4	4	
Bot. 12-a, 13-b (<i>Plant Pathology</i>).....	3	3	
Econ. 1-a, 2-b (<i>Principles of Economics</i>).....	3	3	
Hort. 5-a or 5.5a, 21-c (<i>Survey; Practical Work</i>).....	2		18
Elective.....	6	8	
	18	18	18

*Agr. Econ. 3-a, 4-b (<i>Rural Economics; Farm Accounting</i>)...	3	3	
*Agron. 1-a, 7-b (<i>Agricultural Engineering</i>).....	3	3	
*Agron. 4-a, 2-b (<i>Soils; Crops</i>).....	4	3	
*Eng. 47-a (<i>Public Speaking</i>).....	3		
*Ent. 2-b (<i>Insects of Orchard and Garden</i>).....		3	
*Hort. 14-a, 15-b, 16-c (<i>Advanced Horticulture</i>).....	2-5	2-5	2-5
*Hort. 23-a, 10-b (<i>Fruits; Evolution and Improvement of Plants</i>).....	3	2	
*Met. 1-a (<i>Elementary Meteorology</i>).....	3		
*Zoöl. 1-a, 2-b (<i>Principles of Zoölogy</i>).....	4	4	
*Zoöl. 32-a (<i>Genetics</i>).....	3		

SENIOR YEAR

Agr. Econ. 2-a, 1-b (<i>Farm Management; Coöperative Mar- keting</i>).....	4	3	
Agron. 6-c (<i>Fertilizers</i>).....			3
Bot., 4-b, 5-c (<i>Plant Physiology</i>).....		4	4
Eng. 101-a (<i>Expository Writing</i>).....	2		
Hort. 12-a, 12.5-b (<i>Systematic; Seminar</i>).....	2	2	
Elective.....	10	9	11
	18	18	18

*Agron. 18-c (<i>Agricultural Drawing</i>).....			2
*Geol. 101-b (<i>Elementary Geology</i>).....		3	
*Hort. 17-a, 11-b, 16-c (<i>Commercial Gardening; Forcing; Problems</i>).....	3	3	3
*Hort. 20-a (<i>Beekeeping</i>).....	2		
*Hort. 22-a, 6-b, 16-c (<i>Fruit Judging; Advanced Pomology; Problems</i>).....	3	3	3
*Others from junior list.....			

* Recommended electives.

UNIVERSITY OF NEW HAMPSHIRE

POULTRY HUSBANDRY

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>).....			
Agr. Econ. 3-a (<i>Rural Economics</i>).....	3		
Bot. 1-a, 2-b (<i>Elementary Botany</i>).....	4	4	
Econ. 1-a, 2-b (<i>Principles of Economics</i>).....	3	3	
P. H. 7-b, 17-b (<i>Incubation; Marketing</i>).....		4+3	
P. H. 10-a, 6-b (<i>Breeding; Diseases</i>).....	3	4	
P. H. 13-c (<i>Poultry Practice</i>).....			18
Elective.....	5		
	18	18	18
*Agr. Econ. 4-b (<i>Farm Accounting</i>).....		3	
*Bot. 8-a, 8.5-a (<i>Bacteriology</i>).....	4	4	
*P. H. 22-c (<i>Equipment</i>).....			1
*Zool. 32-a, 40-b (<i>Genetics; Embryology</i>).....	3	4	

SENIOR YEAR

Agr. Econ. 2-a (<i>Farm Management</i>).....	4		
Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>).....	4	3	3
Eng. 101-a (<i>Expository Writing</i>).....	2		
P. H. 14-a, 15-b, 16-c (<i>Poultry Problems</i>).....	2-3	2-3	2-3
P. H. 23-a, 5-b, 9-c (<i>Breeds; Management; Feeding</i>).....	3	3	4
P. H. 31-a, 32-b, 33-c (<i>Poultry Seminar</i>).....	2	2	2
Elective.....		7-8	6-7
	18	18	18
*Acct. 131-a, 132-b, 133-c (<i>Elementary Accounting</i>).....	3	3	3
*Agr. Chem. 4-a, 5-b, 21-c (<i>Physiological Chemistry</i>).....	5	5	5
*Agr. Econ. 1-b (<i>Coöperative Marketing</i>).....		3	
*Agron. 18-c (<i>Agricultural Drawing</i>).....			2
*A. H. 3-a (<i>Feeds and Feeding</i>).....	3		
*Eng. 47-a (<i>Public Speaking</i>).....	3		
*Geol. 101-b (<i>Elementary Geology</i>).....		3	
*Hort. 20-a (<i>Beekeeping</i>).....	2		
*Met. 1-a (<i>Elementary Meteorology</i>).....	3		

* Recommended electives.

COLLEGE OF AGRICULTURE

TEACHER TRAINING

JUNIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Bot. 1-a, 2-b, 3-c (<i>Elementary Botany</i>) or }	4	4	4
Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>) }			
Agr. Econ. 3-a, 4-b (<i>Rural Economics; Farm Accounting</i>)	3	3	
Agron. 4-a, 2-b, 6-c (<i>Soils; Crops; Fertilizers</i>)	4	4	4
Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>)	3	3	3
Educ. 121-a, 122-b, 143-c (<i>Psychological Principles of Secondary Education: Program and Law</i>)	3	3	3
M. E. 35-a; P. H. 11-b; Ent. 13-c (<i>Shop; Poultry; Economic Entomology</i>)	3	2	3
	20	18	16

SENIOR YEAR

Agr. Econ. 2-a, 1-b (<i>Farm Management; Coöperative Marketing</i>)	4	3	
Agr. Econ. 10-b (<i>Rural Sociology</i>)		2	
Agron. 5-b (<i>Electric Farm Power</i>)		4	
Agron. 13-b (<i>Farm Shop</i>)		3	
A. H. 3-a (<i>Feeds and Feeding</i>)	3		
Bot. 12-a, 17-b (<i>Plant Pathology</i>)	3	1	
Educ. 131-a, 161-b, 163-c (<i>Social Principles; Teaching Problems; Practice</i>)	3	3	18
Elective	5	2	
	18	18	18
*A. H. 10-b (<i>Horses and Beef Cattle</i>)		4	
*Eng. 47-a (<i>Public Speaking</i>)	3		
*Eng. 101-a (<i>Expository Writing</i>)	2		
*Hort. 22-a (<i>Fruit Judging</i>)	3		

* Recommended electives.

COLLEGE OF LIBERAL ARTS

C. FLOYD JACKSON, DEAN

DEPARTMENTS

ECONOMICS AND ACCOUNTING
EDUCATION
ENGLISH
GEOLOGY
HISTORY
HOME ECONOMICS
LANGUAGES

MUSIC
PHILOSOPHY AND PSYCHOLOGY
PHYSICAL EDUCATION FOR WOMEN
POLITICAL SCIENCE
SOCIOLOGY
ZOÖLOGY

In the College of Liberal Arts the following curricula are offered :

GENERAL LIBERAL ARTS CURRICULUM.—This curriculum provides a general college training which especially prepares for citizenship, secondary school teaching, business, or graduate study. By means of the group system of elective studies an opportunity is given the student to secure an A.B. or B.S. degree.

EDUCATION—PROFESSIONAL EDUCATIONAL CURRICULUM.—This curriculum has been prepared to give adequate guidance to those who wish to prepare for teaching in junior and senior high schools. It is sufficiently flexible to provide the differentiation necessary to meet the needs of those who may be planning to teach: (1) English and the foreign languages, (2) English and the social sciences, (3) Mathematics and the biological and physical sciences, or (4) the commercial subjects.

The New Hampshire State Board of Education grants a license to teach in New Hampshire secondary schools to candidates whose courses have included *twelve semester hours*† of college work in Education. All candidates must pass the examination set by the State Board in Program of Studies and School Law. They may offer in lieu of examinations certified college courses in Educational Psychology, Methods of Teaching (General or Special) and Secondary Education or School Management.

† 18 credits. To convert credits into semester hours, use the ratio 2/3.

COLLEGE OF LIBERAL ARTS

The following courses may be considered as work in Education: Educational Sociology, Educational Psychology, Practice Teaching, Methods of Teaching, History of Education, School Law, School Management, General Methods Course, Special Methods Course, and work in Tests and Measurements.

HOME ECONOMICS CURRICULUM.—The curricula in home economics are planned to meet the demands for scientific training in home making. Special curricula are outlined for students who wish to enter fields of professional activity along educational and institutional lines of work and other courses are offered as electives for students in the Liberal Arts curricula who wish to study one or more phases of home making.

The technical work in household science is based upon the principles of physical, biological and social sciences. The courses in foods, nutrition and dietetics require physics, chemistry and physiology; those in sanitation necessitate a knowledge of chemistry and bacteriology; home administration and the care and education of children demand a knowledge of the principles of human nutrition and dietetics, and of the principles of economics, psychology and sociology. The study of color and design are fundamental to the work in costume design and house decoration.

The home economics curricula offered are as follows:

(1) Teacher Training Curriculum. To prepare students to teach home economics in junior and senior high schools.

(2) Institutional Management Curriculum. To train students for positions as dietitians and managers, or assistant dietitians or assistant managers in public institutions, such as college dormitories, hospitals, tea rooms, cafeterias, etc.

(3) Extension Training Curriculum. To train students to become home demonstration agents and boys' and girls' club agents.

GENERAL BUSINESS CURRICULUM.—Students wishing to prepare for a business career should take the curriculum in general business. This curriculum has been planned so as to offer the foundation for a broad cultural education during the first and second years of the curriculum, and to introduce the student to the business courses in the junior and senior years.

UNIVERSITY OF NEW HAMPSHIRE

PRE-MEDICAL CURRICULUM.—This curriculum is offered to meet the needs of students who are preparing for the medical profession.

It is highly desirable that a student spend four years at this institution in preparation for a medical training, although some medical colleges do not require a degree for entrance. The four years of pre-medical work will, however, give the student a good cultural foundation for his future medical work.

Students following the prescribed pre-medical curriculum will be eligible for entrance into any Class A medical school. However, owing to the crowded condition of most medical schools, only those students standing in the upper third of their class during their pre-medical work may be admitted. Some medical institutions restrict the number of students admitted from any one pre-medical school. Preference is always given to those students having the most complete training and highest standing in their pre-medical work.

PRE-LAW CURRICULUM.—This curriculum is planned to meet the needs of students who are looking towards law as a profession. No effort is made to teach law, for the student will specialize in it when he gets to law school. The sole concern of the program is to provide as broad and as cultural a background as is reasonably possible.

SOCIAL SERVICE CURRICULUM.—This curriculum is planned to meet the needs of women students who intend to undertake social service work as a career. It represents a combination of training at the University of New Hampshire for the first three years and at Simmons College or another approved institution the fourth year. The degree of Bachelor of Science will be awarded by the University of New Hampshire, the fourth year's residence requirement being waived for students who elect this curriculum. Only such students will be allowed to transfer to Simmons College for the fourth year's training as have demonstrated their personal fitness and scholastic ability to pursue this work. The summer, at the close of the sophomore or junior year, must be spent in practical work under the direction of some competent social service agency.

PUBLIC HEALTH NURSING, HOSPITAL AND TECHNICIAN CURRICULUM.—This curriculum has been provided to meet the needs of women students who are planning to enter some phase of public health nursing,

COLLEGE OF LIBERAL ARTS

hospital work, or work as a technician. Students will be given opportunity to elect work which will fill out a well-rounded liberal arts program and at the same time meet professional demands.

The fourth year's work may be taken at some other institution provided the complete program of studies has been approved before the student transfers and provided the student has shown by her scholastic standing, as well as personal aptitude, her ability along the chosen lines. The institution selected for this work will depend largely on the objective of the student. The University of New Hampshire will waive the fourth year's residence requirement and will grant the degree of Bachelor of Science upon satisfactory completion of the work.

UNIVERSITY OF NEW HAMPSHIRE
COLLEGE OF LIBERAL ARTS
GENERAL LIBERAL ARTS CURRICULUM

FRESHMAN YEAR**

	<i>Fall Term Credits</i>	<i>Winter Term Credits</i>	<i>Spring Term Credits</i>
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
*Mil. Sci. 1-a, 2-b, 3-c	1½	1½	1½
*Phys. Ed. 51-a, 52-b, 53-c	½	½	½
Eng. 1-a, 2-b, 3-c (<i>Composition</i>)	3	3	3
Elect one course from each of the three groups, I, II, III:			
Group I. †Math. 101-a, 102-b, 103-c, 1-a, 2-b, 3-c ...	3	3	3
‡Lang. (<i>French, German, Latin, Spanish</i>)	3	3	3
Group II. Bot. 1-a, 2-b, 3-c	4	4	4
Chem. 1-a, 2-b, 3-c	4	4	4
Geol. 1-a, 2-b, 3-c	4	4	4
Phys. 1-a, 2-b, 3-c	4	4	4
Zoöl. 1-a, 2-b, 3-c	4	4	4
Group III. Hist. 1-a, 2-b, 3-c (<i>Contemporary Civilization</i>)	4	4	4
Electives to meet term requirements			
	—	—	—
	16	16	16

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
|| Mil. Sci. 4-a, 5-b, 6-c	1½	1½	1½
|| Phys. Ed. 54-a, 55-b, 56-c	½	½	½
§ Eng. -a, -b, -c	3	3	3
Elect one of the following courses from each of the three groups, I, II, III:			
Group I. †Math. (<i>One year</i>)	3	3	3
Hist. (<i>One year</i>)	3	3	3
Lang. (<i>French, German, Latin, Spanish</i>) (<i>One year</i>)	3	3	3
Eng. (<i>A third year of English</i>)	3	3	3
Group II. Bot. (<i>One year</i>)	4	4	4
Chem. (<i>One year</i>)	4	4	4
Geol. (<i>One year</i>)	4	4	4
Phys. (<i>One year</i>)	4	4	4
Zoöl. (<i>One year</i>)	4	4	4
Group III. Econ. (<i>One year</i>)	3	3	3
Ed. (<i>One year</i>)	3	3	3
Pol. Sci. (<i>One year</i>)	3	3	3
Psy. (<i>One year</i>)	3	3	3
Phil. (<i>One year</i>)	3	3	3
Soc. (<i>One year</i>)	3	3	3
Electives to meet term requirements			
	—	—	—
	16	16	16

** See page 70 for year-course requirements.

* Physical Education 1-a, 2-b, 3-c is required of all Freshmen women and carries one credit per term.

† Open only to students with one year each of Algebra and Plane Geometry. Students who wish to continue Mathematics beyond the Freshman Year should take Math. 1-a, 2-b, 3-c.

‡ Freshmen will be assigned to French courses on the basis of their grades in the French Placement Examination given during Freshman Week.

§ Students who have had two years of German or Spanish in High School should enroll for German 4-a, 5-b, 6-c or Spanish 4-a, 5-b, 6-c. For Latin 1-a, 2-b, 3-c, the prerequisite is at least three years of High School Latin.

|| Physical Education 4-a, 5-b, 6-c is required of women students.

§ A second year's work in English is required but may be taken during Sophomore, Junior or Senior year.

COLLEGE OF LIBERAL ARTS
HOME ECONOMICS CURRICULA

- A. Teacher Training Curriculum.
B. Institutional Management Curriculum.
C. Extension Training Curriculum.
D. * General Arts major in Home Economics.

FRESHMAN YEAR^a

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (Required).....			
Freshman Assembly (Required Fall Term).....			
Phys. Ed. 1-a, 2-b, 3-c.....	1	1	1
**Eng. 1-a, 2-b, 3-c (Composition).....	3	3	3
Hist. 1-a, 2-b, 3-c (Contemporary Civilization).....	4	4	4
H. E. 20-a, 21-b, 22-c (Clothing Selection).....	3	3	3
H. E. 100-a, 101-b, 102-c (Vocational Opportunities).....	1	1	1
Zoöl. 1-a, 2-b, 3-c (Principles of Zoölogy).....	4	4	4
	16	16	16

SOPHOMORE YEAR

Convocation (Required).....			
Phys. Ed. 4-a, 5-b, 6-c.....	1	1	1
Chem. 1-a, 2-b, 3-c (Inorganic Chemistry).....	4	4	4
H. E. 52-a, 53-b, 54-c (Foods and Cookery).....	3	3	3
Econ. 1-a, 2-b (Principles of Economics).....	3	3	
H. E. 82-c (Home Management).....			3
Educ. 121-a, 122-b, 123-c (Psychological Principles of Secondary Education).....	3	3	3
H. E. 25-b, 26-c (Clothing Construction).....		2	2
Electives to meet term requirements.....	—	—	—
	16	16	16

JUNIOR YEAR

Convocation (Required).....			
Phys. Ed. 7-a, 8-b, 9-c.....	1	1	1
Agr. Chem. 23-a, 24-b (Household; Foods).....	5	5	
H. E. 60-c (Dietetics).....			3
Bot. 8-a, 8.5-b, 9-c (Bacteriology).....	4	4	4
†Educ. 131-a, 132-b, 143-c (Social Principles and School Law)	3	3	3
H. E. 84-a, 85-b, 86-c (Home Planning).....	3	3	3
Electives to meet term requirements.....	—	—	—
	16	16	16

^a See page 70 for year-course requirements.

* This program follows curriculum outlined on page 96 and in addition, 45 credits in Home Economics (36 of which must be completed with a minimum grade of 75) must be taken.

** One additional year of English must be taken before graduation.

† Teacher Training majors only.

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TEACHER TRAINING CURRICULUM

SENIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
H. E. 88-a (<i>Home Management House</i>).....	4		
H. E. 71-c (<i>Child Development</i>).....			4
H. E. 72-c (<i>The Family and the Child</i>).....			3
H. E. 1-a (<i>Textiles</i>).....	2		
H. E. -Ed. 161-a, 165-c (<i>Problems in the Teaching of High School H. E.: Seminar</i>).....	3		3
H. E.-Ed. 163-b (<i>Supervised Teaching in H. E.</i>).....		16	
Eng. -a, -c.....	3		3
H. E. 27-a (<i>Advanced Clothing</i>).....	2		
Electives to meet term requirements.....			
	16	16	16

INSTITUTIONAL MANAGEMENT CURRICULUM

SENIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Acct. 112-a, 113-b (<i>Accounting</i>).....	4	4	
H. E. 91-a, 92-b (<i>Institutional Management</i>).....	2	2	
H. E. 94-a, 95-b (<i>Institutional Practice</i>).....	2	2	
H. E. 61-c (<i>Nutrition</i>).....			2
H. E. 88-c (<i>Home Management House</i>).....			4
H. E. 71-a or -b (<i>Child Development</i>).....	4	or 4	
H. E. 72-c (<i>The Family and the Child</i>).....			3
Electives to meet term requirements.....			
	16	16	16

EXTENSION TRAINING CURRICULUM

SENIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Agr. 2-b (<i>Extension Organization and Methods</i>).....		3	
Agr. 3-c (<i>Supervised Extension Work</i>).....			16
Agr. Econ. 10-b (<i>Rural Social Problems</i>).....		2	
H. E. 88-b (<i>Home Management House</i>).....		4	
H. E. -Ed. 161-a (<i>Problems in the Teaching of High School H.E.</i>).....			
D. H. 8-a (<i>Domestic Dairying</i>).....	3		
H. E. 71-b (<i>Child Development</i>).....		4	
H. E. 72-a (<i>The Family and the Child</i>).....	3		
H. E. 1-a (<i>Textiles</i>).....	2		
H. E. 27-a (<i>Advanced Clothing</i>).....	2		
Electives to meet term requirements.....			
	16	16	16

COLLEGE OF LIBERAL ARTS

GENERAL BUSINESS CURRICULUM

FRESHMAN YEAR^a

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (Required)			
Freshman Assembly (Required Fall Term)			
Mil. Sci. 1-a, 2-b, 3-c	1½	1½	1½
Phys. Ed. 51-a, 52-b, 53-c	½	½	½
Eng. 1-a, 2-b, 3-c (Composition)	3	3	3
Math. 101-a, 102-b, 103-c (Mathematics)	3	3	3
Hist. 65-a, 66-b, 67-c (Modern European History)	3	3	3
A Science (Botany, Chemistry, Physics, Zoology, Geology)	4	4	4
* A foreign language or an approved elective			
	—	—	—
	16	16	16

SOPHOMORE YEAR

Convocation (Required)			
Mil. Sci. 4-a, 5-b, 6-c	1½	1½	1½
Phys. Ed. 54-a, 55-b, 56-c	½	½	½
Acct. 112-a, 113-b, 114-c (Accounting)	4	4	4
Econ. 1-a, 2-b, 3-c (Principles of Economics)	3	3	3
Econ. 6-a (Economic and Commercial Geography)	3		
Econ. 7-b, 8-c (Economic and Commercial History)		3	3
Eng. ** -a, -b, -c	3	3	3
†Math. 110-a, 111-b (Statistics)			
†Math. 104-c (Mathematics)			
	—	—	—
	16	16	16

JUNIOR YEAR

Convocation (Required)			
Econ. 71-a, 72-b, 73-c (Commercial Law)	3	3	3
Econ. 13-a, 14-b (Money and Banking)	3	3	
Econ. 18-c (Marketing)			3
Econ. 22-a (Corporations)	3		
Econ. 23-b (Corporation Finance)		3	
Econ. 24-c (Public Regulation)			3
Acct. 115-a, 116-b, 117-c	4	4	4
Electives to meet term requirements			
	—	—	—
	16	16	16

SENIOR YEAR

Econ. 10-a (Labor Problems)	4		
Electives to meet term requirements			
	—	—	—
	16	16	16

^a See page 70 for year-course requirements.

* Recommended elective.

** A second year of English.

† Preferred electives.

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PRE-MEDICAL CURRICULUM

FRESHMAN YEAR*

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
Mil. Sci. 1-a, 2-b, 3-c	1½	1½	1½
Phys. Ed. 51-a, 52-b, 53-c	½	½	½
Chem. 1-a, 2-b, 3-c (<i>Inorganic Chemistry</i>)	4	4	4
Eng. 1-a, 2-b, 3-c (<i>Composition</i>)	3	3	3
French or German	3	3	3
Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>)	4	4	4
	16	16	16

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Mil. Sci. 4-a, 5-b, 6-c	1½	1½	1½
Phys. Ed. 54-a, 55-b, 56-c	½	½	½
Chem. 25-a, 26-b, 27-c (<i>Introductory Qualitative and Quantitative Analysis</i>)	3	3	3
Eng. -a, -b, -c	3	3	3
Zoöl. 45-a, 46-b, 47-c (<i>Comparative Anatomy</i>)	2	2	2
Zoöl. 33-a, 34-b, 35-c (<i>Human Anatomy and Physiology</i>)	3	3	3
Electives to meet term requirements			
	16	16	16

JUNIOR YEAR

Convocation (<i>Required</i>)			
Chem. 46-a, 47-b, 48-c (<i>Organic Chemistry</i>)	3	3	3
Chem. 49-a, 50-b, 51-c (<i>Organic Laboratory</i>)	2	2	2
Phys. 17-a, 18-b, 19-c (<i>Pre-Medical Physics</i>)	5	5	5
Zoöl. (<i>Year's work in Advanced Zoölogy</i>)	4	4	4
Electives to meet term requirements			
	16	16	16

SENIOR YEAR

Agr. Chem. 4-a, 5-b, 21-c (<i>Physiological Chem.</i>)	5	5	5
Zoöl. (<i>Year's work in Advanced Zoölogy</i>)	4	4	4
Electives to meet term requirements			
	16	16	16

* See page 70 for year-course requirements.

COLLEGE OF LIBERAL ARTS

PROFESSIONAL EDUCATION AND MAJORS IN EDUCATION

FRESHMAN YEAR*

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>).....			
Freshman Assembly (<i>Required Fall Term</i>).....			
** Mil. Sci. 1-a, 2-b, 3-c.....	1½	1½	1½
** Phys. Ed. 51-a, 52-b, 53-c.....	½	½	½
Hist. 1-a, 2-b, 3-c (<i>Contemporary Civilization</i>).....	4	4	4
Eng. 1-a, 2-b, 3-c (<i>Composition</i>).....	3	3	3
Group II elective.....	4	4	4
Hist. 65-a, 66-b, 67-c or other Group I elective.....	3	3	3
	16	16	16

SOPHOMORE YEAR

Convocation (<i>Required</i>).....			
|| Mil. Sci. 4-a, 5-b, 6-c.....	1½	1½	1½
|| Phys. Ed. 54-a, 55-b, 56-c.....	½	½	½
Educ. 121-a, 122-b, 123-c (<i>Psychological Principles</i>).....	3	3	3
English (Advanced course).....	3	3	3
Year courses in three courses in at least two of the following groups: Group I, Group II, and Group III.....	9-10	9-10	9-10
	16	16	16

JUNIOR YEAR

Convocation (<i>Required</i>).....			
Phys. Ed. 7-a, 8-b, 9-c (<i>Women</i>).....	1	1	1
Educ. 131-a, 132-b, 133-c (<i>Social Principles</i>).....	3	3	3
Educ. 141-a, 142-b, 143-c (<i>Principles and Problems</i>).....	3	3	3
Elect 3 courses—subjects to be taught.....	9	9	9
Elective to meet term requirements.....			
	16	16	16

SENIOR YEAR

Education or Problems in Teaching Courses.....	3	3	3
Educ. 163 (<i>Required only in Professional Education Curriculum</i>)	16	or 16	or 16
Electives in subjects to be taught.....	9	9	9
	16	16	16

* See page 70 for year-course requirements.

** Physical Education 1-a, 2-b, 3-c is required of all Freshmen women and carries one credit per term.

|| Physical Education 4-a, 5-b, 6-c is required of all Sophomore women and carries one credit per term.

UNIVERSITY OF NEW HAMPSHIRE

PRE-LAW CURRICULUM

FRESHMAN YEAR**

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
Mil. Sci. 1-a, 2-b, 3-c	1 ½	1 ½	1 ½
Phys. Ed. 51-a, 52-b, 53-c	½	½	½
Eng. 1-a, 2-b, 3-c (<i>Composition</i>)	3	3	3
*Language—Fr. or Ger. 1-a, 2-b, 3-c	3	3	3
†A year of science or Math. 101-a, 102-b, 103-c	4	4	4
Hist. 1-a, 2-b, 3-c (<i>Contemporary Civilization</i>)	3	3	3
Electives to meet term requirements			
	—	—	—
	16	16	16

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Mil. Sci. 4-a, 5-b, 6-c	1 ½	1 ½	1 ½
Phys. Ed. 54-a, 55-b, 56-c	½	½	½
Eng. -a, -b, -c	3	3	3
Pol. Sci. 25-a, 26-b, 27-c (<i>Citizenship</i>)	3	3	3
*Language—Fr. or Ger. 4-a, 5-b, 6-c	3	3	3
A year of science	4	4	4
	—	—	—
	16	16	16

JUNIOR YEAR

Convocation (<i>Required</i>)			
Hist. 25-a, 26-b, 27-c (<i>United States History in the Nineteenth Century</i>)	3	3	3
Pol. Sci. 28-a, 29-b, 30-c (<i>American Government</i>)	3	3	3
Pol. Sci. 53-a, 54-b, 55-c (<i>International Law</i>)	3	3	3
Electives to meet term requirements			
	—	—	—
	16	16	16

SENIOR YEAR

Pol. Sci. 56-a, 57-b, 58-c (<i>Constitutional Law and Jurisprudence</i>)	3	3	3
Pol. Sci. 81-a, 82-b, 83-c (<i>Seminar</i>)	1-4	1-4	1-4
Electives to meet term requirements			
	—	—	—
	16	16	16

** See page 70 for year-course requirements.

* If the equivalent of 4-a, 5-b, 6-c has been taken, the language requirement will be considered as fulfilled and a subject from Group I should be elected in its place.

† Any science courses which meet the requirements in Liberal Arts.

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SOCIAL SERVICE CURRICULUM

FRESHMAN YEAR**

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
Phys. Ed. 1-a, 2-b, 3-c	1	1	1
Eng. 1-a, 2-b, 3-c (<i>Composition</i>)	3	3	3
Hist. 1-a, 2-b, 3-c (<i>Contemporary Civilization</i>)	4	4	4
Zoöl. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>)	4	4	4
Electives to meet term requirements	—	—	—
	16	16	16

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 4-a, 5-b, 6-c	1	1	1
Hist. 25-a, 26-b, 27-c (<i>The United States since 1879</i>)	3	3	3
Eng. (<i>An advanced course</i>)	3	3	3
Soc. 25-a, 26-b, 27-c (<i>Principles of Sociology</i>)	3	3	3
Psych. 21-a, 22-b, 23-c	3	3	3
Zoöl. 13-a, 14-b, 15-c (<i>Hygiene and Sanitation</i>)	3	3	3
	16	16	16

SUMMER

Six weeks of social service field work	6		
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JUNIOR YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 7-a, 8-b, 9-c	1	1	1
Econ. 1-a, 2-b, 3-c (<i>Principles of Economics</i>)	3	3	3
Pol. Sci. 28-a, 29-b, 30-c (<i>American Government</i>)	3	3	3
Soc. 28-a, 29-b, 30-c (<i>Social Psychology; Social Anthropology</i>)	3	3	3
Electives to meet term requirements	—	—	—
	16	16	19

SENIOR YEAR

An approved course of studies at Simmons College, another approved institution, or at the University of New Hampshire.

** See page 70 for year-course requirements.

UNIVERSITY OF NEW HAMPSHIRE

PUBLIC HEALTH NURSING, HOSPITAL AND TECHNICIAN CURRICULUM

FRESHMAN YEAR**

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
Phys. Ed. 1-a, 2-b, 3-c	1	1	1
Eng. 1-a, 2-b, 3-c (<i>Composition</i>)	3	3	3
Chem. 1-a, 2-b, 3-c (<i>Inorganic Chemistry</i>)	4	4	4
Zool. 1-a, 2-b, 3-c (<i>Principles of Zoölogy</i>)	4	4	4
Hist. 1-a, 2-b, 3-c (<i>Contemporary Civilization</i>)	4	4	4
Electives to meet term requirements	—	—	—
	16	16	16

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 4-a, 5-b, 6-c	1	1	1
Eng. (<i>An advanced course</i>)	3	3	3
Zoöl. 33-a, 34-b, 35-c (<i>Anatomy and Physiology</i>)	3	3	3
*Chem. 46-a, 47-b, 48-c (<i>Organic</i>)	3	3	3
*Chem. 49-a, 50-b, 51-c (<i>Organic Laboratory</i>)	2	2	2
*Chem. 25-a, 26-b, 27-c (<i>Qualitative and Quantitative</i>)	3	3	3
Electives to meet term requirements	—	—	—
	16	16	16

JUNIOR YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 7-a, 8-b, 9-c	1	1	1
*Agr. Chem. 4-a, 5-b, 21-c (<i>Physiological</i>)	5	5	5
Zoöl. 36-a, 37-b, 38-c (<i>Histology</i>)	4	4	4
Bot. 8-a, 8.5-b, 9-c	4	4	4
Electives to meet term requirements	—	—	—
	16	16	16

SENIOR YEAR

A course of study at an approved institution or at the University of New Hampshire.

** See page 70 for year-course requirements.

* Required of technicians only.

COLLEGE OF TECHNOLOGY

GEORGE W. CASE, *Dean*

DEPARTMENTS

ARCHITECTURE	MATHEMATICS
CHEMISTRY	MECHANICAL ENGINEERING
CIVIL ENGINEERING	<u>PHYSICS</u>
ELECTRICAL ENGINEERING	ENGINEERING EXPERIMENT STATION

The College of Technology offers the following four-year curricula:

ARCHITECTURE CURRICULUM.—This curriculum is planned to prepare its graduates for immediate usefulness in the profession of architecture and, while it is highly technical, it does not overlook the need of the professional man for a broad cultural background.

The work in design in the sophomore and junior years is based on the programs issued by the Beaux Arts Institute of Design in New York City. This plan insures the maintenance of high scholarship, since the student's work is competitive not only with that of the other students in the department, but also with the work of students in other schools of architecture in the country.

CHEMISTRY CURRICULUM.—This curriculum is intended to fit the student for the career of a professional chemist, and to give a good foundation for original and independent chemical research.

Instruction is imparted by lectures, recitations and a large amount of carefully supervised laboratory work. The laboratory study is largely individual, and the work of each student is conducted with reference not only to the particular subject he may have in view, but also to the acquirement of a broad knowledge of chemical science. The student is given a training in either German or French to enable him to read with ease the chemical literature; a grounding in mathematics, necessary for advanced theoretical chemistry or chemical engineering; a somewhat limited amount of special work in both mechanical and electrical engineering and a thorough undergraduate training in theoretical and applied chemistry. He is encouraged to

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develop the power of solving chemical problems by independent thought through the aid of the reference library and chemical periodicals.

CIVIL ENGINEERING CURRICULUM.—This curriculum is designed to give the student the groundwork of the broad field of civil engineering. About equal emphasis is placed upon highway, hydraulic, sanitary and structural engineering. The junior year contains four terms: fall, winter, spring and summer. The first three terms of the junior year are devoted to regular class work. The summer term of the junior year is for actual employment in surveying or construction work. The student is under the general supervision of a member of the Faculty during this period of employment. This work, including a report, is required for graduation.

ELECTRICAL ENGINEERING CURRICULUM.—The electrical engineering curriculum is intended to meet the demands of young men fitting themselves for professional engineering in connection with the various applications of electricity.

By means of lectures, recitations and laboratory work, the courses of the curriculum are brought to the attention of the student in such a manner as not only to emphasize the present needs of the practitioner and engineer, but to give him the principles needed to understand the constantly increasing number of new problems that require solution.

MECHANICAL ENGINEERING CURRICULUM.—The mechanical engineering curriculum is intended to train young men for positions of responsibility in the field of the mechanical industries and designed to fit them socially for their proper place in the world. The courses in the curriculum are scientific, including mathematics, physics and chemistry; technical, including drawing, shop work, thermodynamics, hydraulics, machine design, electrical engineering, power engineering; and cultural, including English, history and psychology.

Instruction is given by means of recitations, lectures and laboratory work supplemented by illustrated lectures and assigned reading. Throughout the curriculum the theoretical work is supplemented by actual practice in mechanical operation and scientific research, by training in the use of tools for working wood and metals, and by experimental tests and demonstrations in the mechanical, electrical, chemical and physical laboratories.

COLLEGE OF TECHNOLOGY

ENGINEERING EXPERIMENT STATION.—The Engineering Experiment Station was established for the purpose of making available the advisory assistance of heads of departments and experienced men in the Faculty of the College of Technology, and the use of laboratory facilities of these departments for service and assistance of New Hampshire industries and the people of New Hampshire in solving their technical problems.

ALUMNI REPRESENTATION.—An Advisory Committee of Alumni of the College of Technology, composed of men in direct contact with industry and practical professional affairs, serves to keep the Faculty in touch with developments in the several fields which attract our graduates. Members of this committee also serve as consultants when important changes in curricula, faculty personnel and policies of administration are considered. The members are:

Henry H. Calderwood, B.S. in E.E., '01, 16 Prospect Street, Saugus, Mass.

John T. Croghan, B.S. in M.E., '08, 574 Chestnut Street, Waban, Mass.

Robert A. Neal, B.S. in E.E., '10, 286 Burlington Road, Wilkinsburg, Pa.

Lester A. Pratt, Ph.D., '09, 13 Wildwood Street, Winchester, Mass.

UNIVERSITY OF NEW HAMPSHIRE

ARCHITECTURE

FRESHMAN YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (Required)			
Freshman Assembly (Required Fall Term)			
Phys. Ed. 51-a, 52-b, 53-c	1½	1½	1½
Mil. Sci. 18-a, 19-b, 20-c	1½	1½	1½
Math. 1-a, 2-b (First Year Mathematics)	5	5	
†Chem. 1-a (Inorganic Chemistry)	4		
Eng. 1-a, 2-b, 3-c (Composition)	3	3	3
M. E. 1-a (Engineering Drawing)	2		
M. E. 10-a, 12-c (Wood Shop)	3		3
Arch. 13-b, 14-c (Elements of Architecture)		6	6
Arch. 2-b, 3-c (Elements of Design)		2	2
	19	18	16

SOPHOMORE YEAR

Convocation (Required)			
Phys. Ed. 54-a, 55-b, 56-c	1½	1½	1½
Mil. Sci. 21-a, 22-b, 23-c	1½	1½	1½
Arch. 110-a, 111-b, 112-c (Freehand Drawing)	2	2	2
Arch. 4-a, 5-b, 6-c (History of Architecture)	2	2	2
Arch. 50-a, 51-b, 52-c (Architectural Design)	6	6	6
Hort. 24-b (Landscape Gardening)		3	
Phys. 27-a, 28-b, 29-c (Physics)	4	4	4
Geol. 100-a (Clay Products and Building Stones)	2		
	18	19	16

JUNIOR YEAR

Convocation (Required)			
C. E. 70-a, 71-b, 72-c (Building Construction)	3	3	3
Arch. 53-a, 54-b, 55-c (Architectural Design)	6	6	6
Arch. 113-a, 114-b, 115-c (Color, Modeling)	4	2	2
E. E. 100-c (Elements of Electricity)			3
M. E. 79-b (Heating and Ventilating)		3	
M. E. 49-a, 50-b, 51-c (Mechanics)	3	3	3
* Mil. Sci. 24-a (Coast Artillery) or * Econ. 104-a (Economic History of Working Classes) }	3		
* Mil. Sci. 25-b (Coast Artillery) or * Econ. 105-b (Law of Contracts) }		3	
* Mil. Sci. 26-c (Coast Artillery) or * Econ. 106-c (Business Organization and Finance) }			3
	19	20	20

SENIOR YEAR

C. E. 73-a, 74-b, 75-c (Building Construction)	3	3	3
Arch. 60-a, 61-b, 62-c (Architectural Thesis)	6	6	6
Arch. 23-a (Domestic Architecture)	2		
C. E. 76-b (Building Sanitation)		1	
Arch. 41-b, 42-c (Professional Practice)		2	2
Acct. 131-a, 132-b, 133-c (Accounting and Bookkeeping)	3	3	3
†Econ. 104-a (Economic History of the Working Classes)	3		
†Econ. 105-b (Law of Contracts)		3	
†Econ. 106-c (Business Organization and Finance)			3
	17	18	17

† Students electing Mil. Sci. 27-a, 28-b, 29-c are not required to register for Econ. 104-a, 105-b, 106-c. (For 1935-36 only.)

‡ A course approved by the department head may be substituted for Chem. 1-a.
* Elective.

COLLEGE OF TECHNOLOGY

TECHNOLOGY CURRICULUM IN CHEMISTRY

FRESHMAN YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (<i>Required</i>)			
Freshman Assembly (<i>Required Fall Term</i>)			
Phys. Ed. 51-a, 52-b, 53-c	1/2	1/2	1/2
Mil. Sci. 18-a, 19-b, 20-c	1 1/2	1 1/2	1 1/2
Eng. 1-a, 2-b, 3-c (<i>Composition</i>)	3	3	3
Math. 1-a, 2-b, 3-c (<i>First Year Mathematics</i>)	5	5	5
Chem. 1-a, 4-b, 5-c (<i>Inorganic Chemistry</i>)	4	5	5
M. E. 1-a, 2-b (<i>Engineering Drawing</i>)	2	2	
M. E. 10-a or 16-a (<i>Wood or Forge Shop</i>)	3		
Geol. 101-c (<i>General Geology</i>)			3
	—	—	—
	19	17	18

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 54-a, 55-b, 56-c	1/2	1/2	1/2
Mil. Sci. 21-a, 22-b, 23-c	1 1/2	1 1/2	1 1/2
Chem. 22-a, 23-b, 24-c (<i>Analytical Chemistry</i>)	4	4	4
Math. 7-a, 8-b, 9-c (<i>Calculus</i>)	3	3	3
Phys. 6-a, 7-b, 8-c (<i>General Physics</i>)	4	4	4
Phys. 9-a, 10-b, 11-c (<i>Physics Laboratory</i>)	3	3	3
Ger. 100-a, 101-b, 102-c (<i>German</i>)	3	3	3
	—	—	—
	19	19	19

JUNIOR YEAR

Convocation (<i>Required</i>)			
Chem. 40-a, 41-b, 42-c (<i>Organic Chemistry</i>)	5	5	5
Chem. 30-a, 31-b, 32-c (<i>Quantitative Analysis</i>)	5	5	5
E. E. 15-a, 16-b (<i>Electrical Engineering</i>)	3	3	
Physics 37-c (<i>Electrical Measurements</i>)			3
Chem. 100-a, 101-b (<i>Inorganic Chemistry</i>)	3	3	
Chem. 160-c (<i>Physical Chemistry</i>)			3
Ger. 4.5-a, 5.5-b, 6.5-c (<i>German</i>) or M. E. 43-a, 44-b, 45-c (<i>Mechanics</i>) or Econ. 104-a, 105-b, 106-c (<i>Economics</i>) or Educ. 121-a, 122-b, 123-c (<i>Education</i>) or Mil. Sci. 24-a, 25-b, 26-c (<i>Coast Artillery</i>) or Approved Elective	3	3	3
	—	—	—
	19	19	19

SENIOR YEAR

Chem. 161-a, 162-b, 163-c (<i>Physical Chemistry</i>)	5	5	5
Chem. 110-a, 111-b, 112-c (<i>Industrial Chemistry</i>)	3	3	3
Chem. 80-a, 81-b, 82-c (<i>Thesis, Bibliography and Seminar</i>) ..	7	7	7
Geol. 50-a, 51-b, 52-c (<i>Mineralogy</i>) or Bot. 8-a, 8.5-b, 9-c (<i>Bacteriology</i>) or Educ. 131-a, 132-b, 133-c (<i>Education</i>) or Educ. 141-a, 142-b, 143-c (<i>Education</i>) or Mil. Sci. 27-a, 28-b, 29-c (<i>Coast Artillery</i>) or Approved Elective	3-4	3-4	3-4
	—	—	—
	18	18	18

UNIVERSITY OF NEW HAMPSHIRE

CIVIL, ELECTRICAL AND MECHANICAL ENGINEERING

FRESHMAN YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (Required).....			
Freshman Assembly (Required Fall Term).....			
Phys. Ed. 51-a, 52-b, 53-c.....	1½	1½	1½
Mil. Sci. 18-a, 19-b, 20-c.....	1½	1½	1½
Math. 1-a, 2-b, 3-c (First Year Mathematics).....	5	5	5
Chem. 1-a, 2-b, 3-c (Inorganic Chemistry).....	4	4	4
Eng. 1-a, 2-b, 3-c (Composition).....	3	3	3
M. E. 1-a, 2-b, 3-c (Engineering Drawing).....	2	2	2
M. E. 10-a or 16-a (Wood or Forge Work).....	3		
M. E. 10-b or 16-b (Wood or Forge Work).....		3	
C. E. 1-c (Surveying).....			3
	—	—	—
	19	19	19

CIVIL ENGINEERING

SOPHOMORE YEAR

Convocation (Required).....			
Phys. Ed. 54-a, 55-b, 56-c.....	1½	1½	1½
Mil. Sci. 21-a, 22-b, 23-c.....	1½	1½	1½
C. E. 2-a (Topographic Surveying).....	3		
C. E. 3-b (Topographic Drawing).....		3	
C. E. 8-b (Engineering Astronomy).....		3	
C. E. 4-c (Railroad Curves).....			3
C. E. 20-c (Highway Location).....			3
Math. 7-a, 8-b, 9-c (Calculus).....	3	3	3
Phys. 6-a, 7-b, 8-c (Physics).....	4	4	4
Phys. 9-a, 10-b, 11-c (Physics Laboratory).....	3	3	3
M. E. 30-a (Machine Work).....	2		
	—	—	—
	17	18	18

JUNIOR YEAR

Convocation (Required).....			
C. E. 21-a (Highway Location).....	2		
C. E. 22-a (Materials).....	2		
C. E. 41-b, 42-c (Hydraulics).....		3	4
C. E. 80-a, 81-b, 82-c (A. S. C. E.) (Required).....			
C. E. 60-a, 61-b, 62-c (Stresses).....	4	4	4
E. E. 34-a, 35-b, 36-c (Electrical Machinery).....	3	3	3
M. E. 43-a, 44-b, 45-c (Applied Mechanics).....	3	3	3
M. E. 52-a, 53-c (Testing Materials Laboratories).....	1		2
Geol. 101-b (General Geology).....		3	
Mil. Sci. 24-a, 25-b, 26-c (Military Science) or M. E. 92-a, 93-b, 94-c (Management).....	3	3	3
	—	—	—
	18	19	19

COLLEGE OF TECHNOLOGY

SENIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
C. E. 23-a, 24-b (<i>Highway Engineering and Transportation</i>) . . .	4	4	
C. E. 25-c (<i>Railway Engineering</i>)			4
C. E. 50-a, 51-b, 52-c (<i>Hydraulic and Sanitary Engineering</i>) . .	4	4	4
C. E. 63-a, 64-b, 65-c (<i>Structural Design</i>)	4	4	4
C. E. 83-a, 84-b, 85-c (<i>A. S. C. E.</i>) (<i>Required</i>)			
Eng. 101-a (<i>Expository Writing</i>)	2		
C. E. 90-b, 91-c (<i>Thesis</i>)		2	2
M. E. 61-a, 62-b, 63-c (<i>Heat Power Engineering</i>)	2	2	2
Mil. Sci. 27-a (<i>Coast Artillery</i>) or Econ. 104-a (<i>Economic History of Working Classes</i>) }	3		
Mil. Sci. 28-b (<i>Coast Artillery</i>) or Econ. 105-b (<i>Law of Contracts</i>) }		3	
Mil. Sci. 29-c (<i>Coast Artillery</i>) or Econ. 106-c (<i>Business Organization and Finance</i>) }			3
	19	19	19

ELECTRICAL ENGINEERING SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 54-a, 55-b, 56-c	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Mil. Sci. 21-a, 22-b, 23-c	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$
Math. 7-a, 8-b, 9-c (<i>Calculus</i>)	3	3	3
Phys. 6-a, 7-b, 8-c (<i>Physics</i>)	4	4	4
Phys. 9-a, 10-b, 11-c (<i>Physics Laboratory</i>)	3	3	3
E. E. 31-a, 32-b, 33-c (<i>Electrical Laboratory</i>)	1	$1\frac{1}{2}$	2
*Math. 121-c (<i>Astronomy</i>)			$1\frac{1}{2}$
M. E. 56-c (<i>Kinematics</i>)			3
M. E. 4-a, 5-b (<i>Machine Drawing</i>)	2	2	
M. E. 20-a, 21-b (<i>Machine Shop</i>)	3	3	
	18	$18\frac{1}{2}$	$18\frac{1}{2}$

JUNIOR YEAR

Convocation (<i>Required</i>)			
E. E. 1-a, 2-b, 3-c (<i>Dynamo Electric Machinery</i>)	3	3	3
E. E. 28-a, 29-b, 30-c (<i>Electrical Laboratory</i>)	2	2	2
E. E. 37-a, 38-b, 39-c (<i>Electrical Problems</i>)	2	2	2
E. E. 41-a, 42-b, 43-c (<i>A. I. E. E.</i>) (<i>Required</i>)			
M. E. 43-a, 44-b, 45-c (<i>Mechanics</i>)	3	3	3
M. E. 64-a, 65-b (<i>Thermodynamics</i>)	3	3	
M. E. 67-c (<i>Power Engineering</i>)			3
M. E. 68-a, 69-b, 53-c (<i>Mechanical Laboratory</i>)	2	2	2
*Econ. 104-a (<i>Economic History of the Working Classes</i>)	3		
*Econ. 105-b (<i>Law of Contracts</i>)		3	
*Econ. 106-c (<i>Business Organization and Finance</i>)			3
*Mil. Sci. 24-a, 25-b, 26-c (<i>Coast Artillery</i>)			
	18	18	18

* Elective.

UNIVERSITY OF NEW HAMPSHIRE

SENIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
*E. E. 4-a, 5-b, 6-c (<i>Wire and Radio Communication</i>)	3	3	5
E. E. 7-a, 8-b, 9-c (<i>Electrical Engineering Practice</i>)	3	3	3
*E. E. 11-a, 12-b, 13-c (<i>Electrical Laboratory</i>)	4	4	4
*E. E. 14-c (<i>Advanced Radio Laboratory</i>)			4
E. E. 19-a (<i>Illumination Engineering</i>)	2		
*E. E. 21-c (<i>Theory of Electrical Circuits</i>)			4
E. E. 24-c (<i>Term Paper</i>)			1
E. E. 44-a, 45-b, 46-c (<i>A. I. E. E.</i>) (<i>Required</i>)			
Phys. 15-a (<i>Theory of Electrons</i>)	3		
Phys. 37-c (<i>Electrical Measurements</i>)			3
C. E. 45-b (<i>Hydraulics</i>)		4	
Eng. 101-b (<i>Expository Writing</i>)		2	
M. E. 92-a, 93-b, 94-c (<i>Management</i>)	3	3	3
†Mil. Sci. 27-a, 28-b, 29-c (<i>Coast Artillery</i>)			
	18	19	18

MECHANICAL ENGINEERING

SOPHOMORE YEAR

Convocation (<i>Required</i>)			
Phys. Ed. 54-a, 55-b, 56-c	1½	1½	1½
Mil. Sci. 21-a, 22-b, 23-c	1½	1½	1½
Math. 7-a, 8-b, 9-c (<i>Calculus</i>)	3	3	3
Phys. 6-a, 7-b, 8-c (<i>Physics</i>)	4	4	4
Phys. 9-a, 10-b, 11-c (<i>Physics Laboratory</i>)	3	3	3
M. E. 56-b (<i>Kinematics</i>)		3	
Math. 121-c (<i>Astronomy</i>)			1½
M. E. 4-a, 5-b (<i>Machine Drawing</i>)	2	2	
M. E. 40-a, 41-b, 42-c (<i>Mechanical Laboratory</i>)	1½	1½	1½
M. E. 20-a, 21-c (<i>Machine Work</i>)	3		3
	18½	18½	18

JUNIOR YEAR

Convocation (<i>Required</i>)			
E. E. 25-a, 26-b, 27-c (<i>Electrical Machinery</i>)	4	4	4
M. E. 43-a, 44-b, 45-c (<i>Mechanics</i>)	3	3	3
M. E. 64-a, 65-b, 66-c (<i>Thermodynamics</i>)	3	3	3
M. E. 70-a, 71-b, 53-c (<i>Mechanical Laboratory</i>)	2	2	2
M. E. 54-c (<i>Manufacture of Iron and Steel</i>)			2
M. E. 82-a, 83-b, 84-c (<i>A. S. M. E.</i>) (<i>Required</i>)			
†Econ. 104-a (<i>Economic History of Working Classes</i>)	3		
†Econ. 105-b (<i>Law of Contracts</i>)		3	
†Econ. 106-c (<i>Business Organization and Finance</i>)			3
Met. 1-a, M. E. 95-b, 96-c (<i>Aeronautics</i>)	3	3	3
	18	18	20

* E. E. 5-b, 6-c, 13-c, 14-c are elective and E. E. 21-c is elective for some seniors.

† Students electing Mil. Sci. 27-a, 28-b and 29-c are not required to take M. E. 92-a, 93-b and 94-c.

‡ Students electing Mil. Sci. 27-a, 28-b and 29-c are not required to take Econ. 104-a, 105-b, 106-c.

COLLEGE OF TECHNOLOGY

SENIOR YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
M. E. 74-a, 75-b, 75.5-c (<i>Power Plants</i>)	2	2	2
M. E. 58-a, 59-b, 60-c (<i>Machine Design</i>)	3	3	3
M. E. 55-a, 72-b, 73-c (<i>Mechanical Laboratory</i>)	2	3	3
M. E. 92-a, 93-b, 94-c (<i>Management</i>)	3	3	3
C. E. 43-a, 44-b (<i>Hydraulics</i>)	3	2	
M. E. 80-c (<i>Heating and Ventilating</i>)			3
M. E. 85-a, 86-b, 87-c (<i>A. S. M. E.</i>) (<i>Required</i>)			
Eng. 101-a (<i>Expository Writing</i>)	2		
M. E. 90-b, 91-c (<i>Thesis</i>)		2	2
Mil. Sci. 27-a, 28-b, 29-c (<i>Coast Artillery</i>) or M. E. 76-a, 77-b, 78-c (<i>Automotive Engineering</i>) }	3	3	3
	18	18	19

SUMMER SCHOOL

The University of New Hampshire Summer School (the twelfth session of which will be held from July 1 to August 9, 1935) offers courses in most departments of all three colleges. The Summer School is designed to meet the needs of:

1. Teachers, superintendents and supervisors of secondary schools.
2. Students in the University of New Hampshire and in other colleges who desire to utilize the vacation period for the purpose of anticipating courses or supplying deficiencies.
3. Graduate students who may earn the degree of Master of Arts, Master of Science or Master of Education for work done exclusively during summer sessions.
4. Candidates for admission to any of the colleges of the University who desire to obtain advanced standing or to complete some special requirement for admission.

For Summer School Bulletin, information as to particular courses, etc., address the Director of the Summer School, University of New Hampshire, Durham, N. H.

EXTENSION COURSES FOR UNIVERSITY CREDIT

In response to the insistent demand of the teachers of the state the Trustees of the University have approved offering extension courses for university credit. Professors are sent out to centers within the state where there is a demand for classes to be formed. At present the courses offered will depend on the teaching schedules of the various departments.

DESCRIPTION OF COURSES

(Alphabetically arranged)

The title of each course is given in capital letters and small capital letters. The numeral designates the particular course and the letter (a, b, or c) designates the term in which the course is given. The letter "a" indicates that a course is given the first term; "b" the second term; and "c" the third term. A combination of the letters (a-b, b-c, or a-b-c) attached to a numeral indicates that the course is given through the terms represented by the letters.

Following the title of each course is the description of the work given and the name of the instructor.

The next paragraph gives the following information in the order indicated: (1) prerequisites, if any; (2) in what curricula the course is required and the undergraduate year in which it should be taken; (3) the number of hours of recitations, or laboratory periods required each week; (4) the number of credits the course will count towards graduation. Lectures and recitations are fifty minutes in length. Laboratory periods are two and one-half hours in length.

All courses (unless otherwise noted) are open to students who have passed the prerequisites.

An elective course will be given only when there is a minimum of five students registered therefor.

ACCOUNTING

(See Economics)

AGRICULTURAL AND BIOLOGICAL CHEMISTRY

THOMAS G. PHILLIPS, *Professor*

STANLEY R. SHIMER, *Assistant Professor*

HENRY A. DAVIS, *Assistant*

GEORGE H. JOSEPH, *Assistant*

1-a. AGRICULTURAL CHEMISTRY. A study of the chemistry of the carbon compounds with special emphasis on those of most importance in agriculture. The laboratory includes some methods of quantitative analysis. Assistant Professor Shimer and Mr. Davis.

Prerequisite: Chemistry 3-c. Required of Sophomores in Agriculture. 3 lectures; 2 laboratories; 5 credits.

2-b. AGRICULTURAL CHEMISTRY. A survey of the relations of chemistry to the growth and development of plants and animals. Professor Phillips and Mr. Davis.

Prerequisite: Agricultural Chemistry 1-a or its equivalent. Required of Sophomores in Agriculture. 3 lectures; 2 laboratories; 5 credits.

AGRICULTURAL AND BIOLOGICAL CHEMISTRY

4-a. **PHYSIOLOGICAL CHEMISTRY.** An advanced study of the chemistry of the fats, carbohydrates and proteins, and some of the general applications of chemistry to biology, such as colloids and enzyme action. Assistant Professor Shimer.

Prerequisite: Agricultural Chemistry 2-b or 24-b or equivalent preparation in Organic Chemistry and Quantitative Analysis. Required of students in Agricultural Chemistry and of Pre-medical students. Elective for others. 3 lectures; 2 laboratories; 5 credits.

5-b. **PHYSIOLOGICAL CHEMISTRY.** The chemistry of animal physiology, including foods, digestion, metabolism and excretion. Assistant Professor Shimer.

Prerequisite: Agricultural Chemistry 4-a. Required of students in Agricultural Chemistry and of Pre-medical students. Elective for others. 3 lectures; 2 laboratories; 5 credits.

6-b. **PLANT CHEMISTRY.** A study of the chemistry of plant growth and development, and methods for the analysis of plant materials. Professor Phillips.

Prerequisite: Agricultural Chemistry 4-a. Required of students in Agricultural Chemistry. Elective for others. Given only in alternate years beginning with 1935-36. 2 lectures; 2 laboratories; 4 credits.

7-a, 8-b, 9-c. **AGRICULTURAL ANALYSIS.** A study of the methods of analysis of fertilizers, feeding-stuffs and other products important in Agriculture. Professor Phillips and Assistant Professor Shimer.

Prerequisites: At least 6 credits in Quantitative Analysis and 8 credits in Organic Chemistry. Required of students in Agricultural Chemistry. Elective for Chemistry students and for others having the prerequisites. 4 laboratories; 4 credits.

20-c. **CHEMISTRY OF ANIMAL NUTRITION.** The chemistry of feeds, digestion, metabolism and excretion. Assistant Professor Shimer and Mr. Davis.

Prerequisite: Agricultural Chemistry 2-b. Required of students in Animal Husbandry and Dairy Husbandry. 3 lectures; 2 laboratories; 5 credits.

UNIVERSITY OF NEW HAMPSHIRE

21-c. **PHYSIOLOGICAL CHEMISTRY.** The qualitative and quantitative examination of blood and urine. Assistant Professor Shimer.

Prerequisite: Agricultural Chemistry 5-b. Required of students in Agricultural Chemistry and of Pre-medical students. Elective for others. 3 lectures; 2 laboratories; 5 credits.

23-a. **HOUSEHOLD CHEMISTRY.** An introductory course in organic chemistry and its application to household affairs. The laboratory includes some methods of quantitative analysis. Assistant Professor Shimer and Mr. Davis.

Prerequisite: Chemistry 3-c. Required of Juniors in Home Economics. 3 lectures; 2 laboratories; 5 credits.

24-b. **PHYSIOLOGICAL AND FOOD CHEMISTRY.** The chemistry of human physiology including enzyme action, digestion, absorption and metabolism, and of food materials. Assistant Professor Shimer and Mr. Davis.

Prerequisite: Agricultural Chemistry 23-a or its equivalent. Required of Juniors in Home Economics. 3 lectures; 2 laboratories; 5 credits.

For courses primarily for graduate students, see Catalog of the Graduate School.

AGRICULTURAL ECONOMICS

M. GALE EASTMAN, *Professor*

HAROLD C. GRINNELL, *Assistant Professor*

1-b. **COÖPERATIVE MARKETING.** The essential characteristics of coöperative development in this country, something of its present importance, and the principles underlying sound organization. Laws relating to corporations and coöperatives, problems in finance, and membership and business policies reviewed. Assistant Professor Grinnell.

Required of Seniors in Agriculture, except those registered in Agricultural Chemistry, Botany, Entomology, Forestry and Poultry. Elective for other students. 3 lectures; 3 credits.

2-a. **FARM MANAGEMENT.** Deals with the development of farming as a business; types of farming, size of farms, cropping systems, live-

AGRICULTURAL ECONOMICS

stock problems, buying, selling, etc. Practical problems in working out factors of efficiency, balance, etc. Assistant Professor Grinnell.

Required of Seniors in Agriculture, except those registered in Agricultural Chemistry, Botany, Entomology and Forestry. 2 lectures; 1 laboratory; 4 credits.

3-a. RURAL ECONOMICS. History and economy in the development of rural living, including an inquiry into the present utilization of agricultural resources. Assistant Professor Grinnell.

Required of Juniors in certain curricula. 3 lectures; 3 credits.

4-b. FARM ACCOUNTING. Lectures, reference work and farm problems relating to the principles of accounting as applied to farm records and farm cost accounts. Laboratory exercises include sets of complete cost accounts taken from actual farms. Assistant Professor Grinnell.

Required of Juniors in Animal Husbandry, Horticulture and Teacher-Training. Elective for other students. 1 lecture; 1 laboratory; 3 credits.

5-a. AGRICULTURAL STATISTICS. An elementary course designed to acquaint the agricultural student with some every-day problems of chance in biological phenomena and to give him some immunity against snap judgments, and some basis for the interpretation of current research information.

Elective for Seniors in Agriculture. 1 lecture; 1 laboratory; 2 credits.

6-a, 7-b. AGRICULTURAL ECONOMICS SEMINAR Weekly discussions of current and fundamental economic problems, providing $\frac{1}{2}$ to 2 credits and adjusted more or less to the needs and desires of the group electing the course. Professor Eastman.

Elective for Seniors in Agriculture and other students by permission.

8-a, 9-b. SPECIAL AGRICULTURAL ECONOMICS. Graduate, or other advanced credit, to satisfy a student's needs may be obtained in this course in special cases by permission of the head of the department.

Hours of meeting and hours of credit to be arranged.

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10-b. RURAL SOCIAL PROBLEMS. A consideration of rural social organizations and the development of rural leadership; some attention will be given to rural thought and sentiment and the possible satisfactions of country life. Professor Eastman.

Prerequisite: Junior standing or permission of the department head. Required of Seniors in Agricultural Teacher-Training and of Home Economics Extension Training Seniors. 2 lectures; 2 credits.

AGRICULTURAL EXTENSION TRAINING

JOHN C. KENDALL, *Director*

2-b. EXTENSION ORGANIZATION AND METHODS. A brief history of the origin and development of extension work in agriculture and home economics in the state and nation. Lectures on extension methods and practices. Actual demonstrations as presented in different parts of the state will be given by members of the resident and extension staff. Purpose of the course is to furnish a good understanding of the nature of extension organization, its coöperative relationships, and especially extension methods and the results to be attained in the field.

Course to be given under the direction of J. C. Kendall, Director of Extension Service. Elective for Seniors in Agriculture and required of Seniors in Home Economics Extension Curriculum. 2 lectures; 1 laboratory; 3 credits.

3-c. SUPERVISED EXTENSION WORK. During the third term of the senior year a limited number of students in agriculture and home economics with the approval of the Dean of the College and the Director of the Extension Service will be allowed to do supervised extension work in the state under the immediate direction of a member of the extension staff. At least twelve weeks will be devoted to this field work. Director Kendall.

Prerequisite: Agricultural Extension 2-b. Required of Seniors in Home Economics Extension Curriculum. Field work, 18 credits.

AGRONOMY

(Agricultural Engineering)

FORD S. PRINCE, *Associate Professor*
LEROY J. HIGGINS, *Assistant Professor*
WALTER T. ACKERMAN, *Assistant Professor*
GEORGE M. FOULKROD, *Instructor*
HALSTEAD N. COLBY, *Instructor*

AGRONOMY

2-b. CROP PRODUCTION. An introductory study of the production of crops in general, considering distribution, choice, growth processes, cropping practices, preparation of seed beds, care, improvement and breeding. Some time will be given to the identification and production of the crops most common to New England. Assistant Professor Higgins.

Required of Juniors and Seniors in Agriculture, with a few exceptions. 3 lectures; 3 credits.

3-b. FIELD CROPS. A study of the more important forage crops, especially grasses, legumes and roots, with detailed consideration of those grown in New England. Attention will be given to their history, value, adaptation, production, harvesting, and use. Practical work in identification and judging will be offered. Assistant Professor Higgins.

Elective for Seniors in certain curricula. Prerequisite: Agronomy 2-b. 2 lectures; 1 laboratory; 3 credits.

4-a. SOILS. A study of the nature and properties of soils, giving special consideration to the fundamental physical, chemical and biological processes and characteristics of productive soils. The subject matter will be of an introductory nature to serve all students in the College of Agriculture and will be fundamental for those who continue in agronomy work. Laboratory work will put into application some of the more important principles considered in class. Assistant Professor Higgins.

Required of Juniors and Seniors in Agriculture, with a few exceptions. 3 lectures; 1 laboratory; 4 credits.

6-c. FERTILIZERS. A study of the occurrence and function of plant food materials in soils and the use of manure and fertilizers in crop

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production. Special attention will be given to the production, care and preservation of manure, to the compounding of fertilizers, and the response of different types of crops to the several materials now used to stimulate crop production. Associate Professor Prince.

Required of Juniors and Seniors in Agriculture with a few exceptions. Prerequisite: Agricultural Chemistry 1-a. 3 lectures; 3 credits.

11-b, 12-c. AGRONOMIC LITERATURE. A special study of literature relating to soils and crops. Designed to meet the needs of students interested in some phase of agronomy. Practice in looking up literature and in the preparation of reports and abstracts will be given. Associate Professor Prince.

Prerequisites: Agronomy 2-b and 4-a. Elective for Seniors. Number of credits to be arranged.

15-a. SOIL MANAGEMENT. A study considering the practical details of soil management based on the physical, chemical and biological processes involved. Systems of maintaining and building up the productive capacities of soils will be given attention. Agronomic literature will be cited and studied. Assistant Professor Higgins.

Prerequisite: Agronomy 4-a. Elective for Seniors. 3 lectures; 3 credits.

16-c. FIELD CROPS. A study of cereal and fibre crops, potatoes and other important field crops not considered under 3-b. The individual crops will be treated similarly to those covered in 3-b. In addition, some attention will be given to special cropping systems and rotations. Laboratory work will include judging and identification. Assistant Professor Higgins.

Prerequisite: Agronomy 2-b. 2 lectures; 1 laboratory; 3 credits.

17-b. SEED TESTING. A study of the official method of analyzing agricultural seeds for purity and germination, involving studies in the identification of seeds, as well as the technique of using equipment in weighing, germinating, counting, estimating, etc., for official reports. Assistant Professor Higgins.

Prerequisite: Botany 3-c. Elective for a very limited number of students. Hours arranged. 2 laboratories; 2 credits.

AGRONOMY

AGRICULTURAL ENGINEERING

1-a. FARMSTEAD PLANNING, DRAINAGE AND SANITATION. Elementary mapping and land measurement, making farm maps, both from the data on the deed and field notes; leveling for ditching, grading and water supply installations; sources and systems used for farm water supply; and farm sanitation are covered. Shop practice in the care and repair of pumps, plumbing and sanitary equipment is included. Mr. Foulkrod.

Elective for any student. Recommended for Sophomores. 2 lectures; 1 laboratory; 3 credits.

5-b. ELECTRIC FARM POWER. A course embracing the comparative utility of individual plant and central station current; rural line extension procedure; proper wiring for farm applications with particular emphasis on household, farmstead, dairying, poultry farm and horticultural uses. Special attention will be given the economics of various methods, costs of operation, care and maintenance of equipment, quality of results obtainable and effect on the farm labor problem. Assistant Professor Ackerman and Mr. Foulkrod.

Required of Seniors in Teacher-Training and recommended as an elective in various curricula. 3 lectures; 1 laboratory; 4 credits.

7-b. FARM BUILDINGS AND EQUIPMENT. The lectures on types and purpose of farm shelters, materials, equipment and sanitary requirements will be paralleled by drafting-room work in design and laboratory work in construction, with special attention to remodeling and renovating. Assistant Professor Ackerman and Mr. Colby.

Recommended for Juniors in various curricula. Prerequisite: Agricultural Engineering 18-c. 1 lecture; 2 laboratories; 3 credits.

8-c. FIELD AND POWER MACHINERY. A complete review of the development of the machines at present available to the farmer, with special emphasis on those of economic importance in New England. Care, repair and adjustment will be carefully considered in the laboratory, supplemented by operation under actual field conditions. Mr. Foulkrod.

Recommended for Juniors in various curricula. 2 lectures; 1 laboratory; 3 credits.

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9-c. FARM POWER. The field of farm power is covered in both theory and practice. The lectures offer the theory and economic application of animal, water, wind, steam, gasoline and oil units, while the laboratory work includes practical shop work in care, operation and transmission of power to various machines, together with the repairs that can be made to advantage by the farmer himself. Mr. Foulkrod.

Elective for Seniors in various curricula. 2 lectures; 1 laboratory; 3 credits.

13-b. FARM MECHANICS SHOP. Planned to give the Teacher-Training Senior the greatest amount of practice in farm mechanics in the shortest possible time; to develop his skill with tools, and his general knowledge of farm mechanics applications. Mr. Foulkrod.

Open only to Agricultural Teacher-Training Seniors, for whom it is required. 1 lecture; 2 laboratories; 3 credits.

18-c. AGRICULTURAL DRAWING. This course is designed to meet the needs of all agricultural students, and includes beside the elementary principles of drawing and lettering, the application of these principles to the making of charts, graphs, maps, machine and shop sketches, as well as plans for minor farm buildings. Mr. Colby.

Elective for Agricultural students. 2 laboratories; 2 credits.

ANIMAL HUSBANDRY

LORING V. TIRRELL, *Associate Professor*

CARL L. MARTIN, *Assistant Professor*

1-a. TYPES AND BREEDS OF LIVESTOCK. A study of the different breeds of horses, cattle, sheep, and swine in respect to their origin, history, development, characteristics, and adaptability to different conditions of climate and soil. One afternoon each week is devoted to judging the different breeds. Associate Professor Tirrell.

Recommended elective for Freshmen in Agriculture. 3 lectures; 1 laboratory; 4 credits.

2-c. LIVESTOCK JUDGING. The work consists of a study of the principles and practice of judging horses, beef cattle, dual purpose cattle,

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sheep, and swine, and of the market classes and grades of horses and meat animals. The judging teams which represent the University at such expositions as the Eastern States at Springfield and the International at Chicago are selected from students taking this course and 2.5-c. For a part of the laboratory work, trips are taken to some of the best breeding establishments in New England. Associate Professor Tirrell.

Prerequisite: Animal Husbandry 1-a. Required of Sophomores electing Animal Husbandry. 2 laboratories; 2 credits.

2.5-c. **ADVANCED LIVESTOCK JUDGING.** This is a continuation of 2-c and is open to students who have previously taken 2-c. Associate Professor Tirrell.

2 laboratories; 2 credits.

3-a. **FEEDS AND FEEDING.** A study of the character, composition, and digestibility of feedstuffs, and the methods of feeding different kinds of farm animals. Numerous samples of grains and by-products are used for the purpose of familiarizing the students with the different feed stuffs. Practice is given in calculating rations for various purposes. Associate Professor Tirrell.

Required of Seniors in Animal Husbandry, Dairy Husbandry, General and Teacher-Training curricula. 3 lectures; 3 credits.

4-a. **ANATOMY OF FARM ANIMALS.** Lectures and recitations upon the form and functions of the different structures of the domesticated animals. Skeletons, various anatomical specimens, models, and charts are used to make the course as practical as possible. The purpose of this course is to acquaint the student with the structural make-up of the body together with the functions of the different organs. Assistant Professor Martin.

Required of Juniors in Animal Husbandry. Elective for others. 3 lectures; 3 credits.

5-b. **ANIMAL DISEASES.** A study of the more common infectious diseases of farm animals, their prevention, and control. An effort is made to teach the student how to recognize disease conditions and the

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importance of treating them at their outbreak by a qualified veterinarian. Assistant Professor Martin.

Required of Juniors in Animal Husbandry. Elective for others. 3 lectures; 3 credits.

6-c. ANIMAL DISEASES. Continuation of 5-b, dealing with common non-infectious diseases of the domesticated animals. Assistant Professor Martin.

Prerequisite: Animal Husbandry 5-b. Required of Juniors in Animal Husbandry. 3 lectures; 3 credits.

7-b. ANIMAL BREEDING. A study of the principles and practices of breeding farm animals, including crossbreeding, inbreeding, selection, inheritance, breed analysis, reproductive efficiency, fertility, sterility, Mendelism in relation to farm animals, acquired characters and variation. Practice is given in tracing and studying pedigrees. Associate Professor Tirrell.

Required of Seniors in Animal Husbandry. 3 lectures; 1 laboratory; 4 credits.

8-a. LIVESTOCK MARKETS AND PRODUCTS. A study of the various kinds of livestock markets and of the methods and regulations applying to the transportation of livestock. Some time will be spent in a study of the livestock centers, the stock yards, and the government inspection of animals before and after slaughter. The butchering of animals on the farm and the various cuts of meat will be discussed. Occasional trips will be taken to slaughter houses and packing plants. Associate Professor Tirrell.

Prerequisite: Animal Husbandry 1-a. Required of Seniors in Animal Husbandry. Elective for others. 3 lectures; 3 credits.

9-c. SHEEP AND SWINE HUSBANDRY. A consideration of the judging, breeding, feeding, management and preparation for the show ring of sheep and swine, with special reference to New Hampshire conditions. Associate Professor Tirrell.

Prerequisites: Animal Husbandry 1-a and 3-a. Required of Seniors in Animal Husbandry. Elective for others. 3 lectures; 1 laboratory; 4 credits.

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10-b. MANAGEMENT OF HORSES AND BEEF CATTLE. Lectures and recitations upon the care of brood mares and cows, management of stallions and bulls, the breaking and training of colts, preparation of animals for the show ring, the management of pure-bred beef herds, and the feeding and handling of steers. Associate Professor Tirrell.

Prerequisites: Animal Husbandry 1-a and 3-a. Required of Seniors in Animal Husbandry. Elective for others. 3 lectures; 1 laboratory; 4 credits.

12-c. ANIMAL HUSBANDRY SEMINAR. Library and reference work and the preparation of papers on various animal husbandry subjects of timely importance. Associate Professor Tirrell.

Prerequisites: Animal Husbandry 3-a, 5-b, 6-c, and 7-b. Required of Seniors in Animal Husbandry. Elective for others. 1 lecture; 1 laboratory; 2 credits.

ARCHITECTURE

ERIC T. HUDDLESTON, *Professor*

ARNOLD PERRETON, *Assistant Professor*

GEORGE R. THOMAS, *Assistant Professor*

2-b, 3-c. ELEMENTS OF DESIGN. A lecture course introductory to the field of architectural design, discussing the influence of materials, architectural elements, their function and form, walls, moldings, openings, columns, roofs, plans, and ornament, followed by an analysis of the principles governing architectural design. Assistant Professor Perreton.

Required of Freshmen in Architecture. 2 recitations; 2 credits.

4-a, 5-b, 6-c. HISTORY OF ARCHITECTURE. Lectures with assigned reading on the historical development of the different periods of architecture and an analysis of the chief contributions each period made toward a constructive and artistic advance in architectural design. Assistant Professor Perreton.

Required of Sophomores in Architecture. 2 recitations; 2 credits.

13-b, 14-c. ELEMENTS OF ARCHITECTURE. Determination of conventional shades and shadows as they occur in architectural draw-

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ings; problems illustrating the architectural application of descriptive geometry; theory of perspective and the practical construction of architectural perspective drawings.

Drafting room exercises, supplemented with lectures, familiarizing the student with the classic orders of architecture; rendering in wash; elementary studies in architectural composition and design. Assistant Professor Thomas.

Required of Freshmen in Architecture. 2 lectures; 4 laboratories; 6 credits.

20-a, 21-b, 22-c. DOMESTIC ARCHITECTURE. Lectures and recitations devoted to a brief study of the history of domestic architecture; the relation of the house plan to home making and to the individual site, to the garden, to accessory buildings, and to the community. Emphasis is given to the need for intelligent coöperation on the part of the prospective owner with the architect and builder. Problems are issued to the student for graphical solution such as would be presented to an architect by a prospective home builder; followed by the study of an individual building problem, and making working drawings for a small frame house designed by the student to conform to specific requirements. Professor Huddleston.

Elective by permission for Liberal Arts women. 20-a: 2 lectures; 2 credits. 21-b: 2 laboratories; 2 credits. 22-c: hours and units to be arranged.

23-a. DOMESTIC ARCHITECTURE. Lectures and recitations devoted to a brief study of the history of domestic architecture; the relation of the house plan to the individual site, to the garden, to accessory buildings, and to the community, with special consideration given to economy in design and material. Professor Huddleston.

Required of Seniors in Architecture. 2 recitations; 2 credits.

41-b, 42-c. PROFESSIONAL PRACTICE. Discussions and assigned reading covering the personal, ethical, business, and legal relations of the architect with clients, contractors, craftsmen, etc., and the relations that should exist between the architect and the community in which he lives; followed by a study of the fundamentals of specification writing and the preparation of an outline specification adapted to

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the requirements of the thesis problem as designed by each student. Professor Huddleston.

Required of Seniors in Architecture. 2 recitations; 2 credits.

50-a, 51-b, 52-c. ARCHITECTURAL DESIGN. Class "B," Analytiques programs of the Beaux Arts Institute of Design will be used as the basis for a progressive series of problems in architectural planning and design. Assistant Professors Perreton and Thomas.

Prerequisite: Architecture 14-c. Required of Sophomores in Architecture. 6 laboratories; 6 credits.

53-a, 54-b, 55-c. ARCHITECTURAL DESIGN. A continuation of 52-c with Class "B" Project problems in architectural design, composition and planning. Assistant Professor Perreton.

Prerequisite: Architecture 52-c. Required of Juniors in Architecture. 53-a: 1 lecture; 5 laboratories; 6 credits. 54-b, 55-c: 6 laboratories; 6 credits.

56-a, 57-b, 58-c. ARCHITECTURAL DESIGN. Class "A" Project problems issued by the Beaux Arts Institute of Design will be used as a basis for advanced study of architectural design. Assistant Professor Perreton.

Prerequisite: Architecture 55-c. Elective by permission only. Credits to be arranged.

60-a, 61-b, 62-c. ARCHITECTURAL THESIS. The design of a building to conform to specified requirements such as would obtain in actual practice, followed by complete working drawings and details, including framing, heating, plumbing, and electric plans. This work will be made to conform to current practice in an architect's office. Professor Huddleston and Assistant Professor Perreton.

Prerequisite: Architecture 55-c. Required of Seniors in Architecture. 6 laboratories; 6 credits.

110-a, 111-b, 112-c. FREE-HAND DRAWING. Studio exercises in charcoal from architectural details, cast ornament, and the cast figure. Studio exercises in pencil sketching. Weather permitting, sketching from nature with special emphasis on tree and shrubby forms. Assistant Professor Thomas.

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Prerequisite: Architecture 14-c. Required of Sophomores in Architecture. 2 laboratories; 2 credits.

113-a, 114-b, 115-c. WATER COLOR AND MODELING. A course consisting of water color studies from documents, photographs, and still life, supplemented with lectures presenting the theory of color and its application to architectural rendering. Modeling in clay of subjects from cast, followed by original designs from programs. Assistant Professor Thomas.

Prerequisite: Architecture 112-c. Required of Juniors in Architecture. 113-a: 4 laboratories; 4 credits. 114-b: 2 laboratories; 2 credits. 115-c: 2 laboratories; 2 credits.

116-a, 117-b, 118-c. ADVANCED FREE-HAND DRAWING. Studio work arranged to meet the needs of those students who show special ability and are judged capable of doing individual work of an advanced nature. Assistant Professor Thomas.

Special permission must be obtained from the head of the department before registering in this course. Hours and credits to be arranged.

BOTANY

(Bacteriology)

ORMOND R. BUTLER, *Professor*

MARIAN E. MILLS, *Assistant Professor*

STUART DUNN, *Instructor*

LAWRENCE W. SLANETZ, *Instructor*

BOTANY

1-a. GENERAL BOTANY. An introductory study of flowering plants with special emphasis on the structure and functions of organs. Assistant Professor Mills.

Required of Sophomores or Juniors in Agriculture. 2 lectures; 2 laboratories; 4 credits.

2-b. GENERAL BOTANY. A continuation of 1-a. The study of selected types of algae and fungi, emphasizing growth habits, reproduction, evolutionary development and economic importance. Assistant Professor Mills.

BOTANY

Prerequisite: Botany 1-a. Required of Sophomores or Juniors in Agriculture. 2 lectures; 2 laboratories; 4 credits.

3-c. GENERAL BOTANY. A continuation of 2-b. The study of the life histories of mosses, ferns and gymnosperms; the geographic distribution of economic plants of North America. Evolution and heredity. Assistant Professor Mills.

Prerequisite: Botany 2-b. Required of Sophomores or Juniors in Agriculture. 2 lectures; 2 laboratories; 4 credits.

4-b, 5-c. PLANT PHYSIOLOGY. Structure and properties of the cell; absorption and movement of water; metabolism; growth and irritability. Mr. Dunn.

Prerequisites: Botany 3-c and one year of Chemistry. Required of Juniors in Botany and Seniors in Agricultural Chemistry and Horticulture. 2 lectures; 2 laboratories; 4 credits.

6-a. PLANT HISTOLOGY. Characterization and differentiation of plant tissues; micro-technique. Mr. Dunn.

Prerequisite: Botany 3-c. Required of Juniors in Botany and Seniors in Agricultural Chemistry and Horticulture. 3 laboratories; 2 credits.

12-a. PLANT PATHOLOGY. The bacterial and fungous diseases of plants, their symptoms, cause and prevention. Mr. Dunn.

Prerequisite: Botany 3-c. Required of Juniors or Seniors in Botany, Horticulture and Teacher-Training. Elective for others. 1 lecture; 2 laboratories; 3 credits.

13-b. PLANT PATHOLOGY. A continuation of 12-a.

Prerequisite: Botany 12-a. Required of Seniors in Botany and Juniors in Horticulture. Elective for others. 1 lecture; 2 laboratories; 3 credits.

14-a, 15-b, 16-c. ADVANCED BOTANY OR BACTERIOLOGY. The subject-matter will depend upon the training and desire of the student. It cannot be elected without previous consultation. Professor Butler, Assistant Professor Mills, Mr. Dunn, and Mr. Slanetz.

Credits to be arranged.

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17-b. PLANT PATHOLOGY. Lectures on the fungous diseases of our economic plants, their symptoms, cause and prevention. Mr. Dunn.

Prerequisite: Botany 12-a. Required of Teacher-Training Seniors. 1 lecture; 1 credit.

18-c. SYSTEMATIC BOTANY. A study of the higher plants of our native flora. The student is required to prepare an herbarium of 60 specimens. Assistant Professor Mills.

Field trips; laboratory work; occasional lectures. Required of Seniors in Botany. 2 field trips and laboratories; 2 credits.

BACTERIOLOGY

8-a. GENERAL BACTERIOLOGY. Principles of bacteriology. The importance of bacteria and other microorganisms to agriculture, home economics and the arts and industries. Morphology, physiology and classification of bacteria. Preparation of culture media. Mr. Slanetz.

Prerequisite: One year of Chemistry. Required of all Home Economics Juniors, and required of or elective for Juniors in various Agricultural curricula. Elective for others. 2 lectures; 2 laboratories; 4 credits.

8.5-b. GENERAL BACTERIOLOGY. A study of the bacteriology of water, milk, preserved foods, sewage, soil, air and dust. Bacterial diseases of animals and plants. Mr. Slanetz.

Prerequisite: Botany 8-a. Required of all Home Economics Juniors, and required of or elective for Juniors in various Agricultural curricula. Elective for others. 2 lectures; 2 laboratories; 4 credits.

9-c. APPLIED BACTERIOLOGY. A study of the principles of infection and immunity; important pathogenic bacteria; bacteriological and serological methods of disease diagnosis; bacteriological analyses of foods; antiseptics and disinfectants. Mr. Slanetz.

Prerequisite: 8.5-b. Required of all Home Economics Juniors, and required of or elective for Juniors in various Agricultural curricula. Elective for others. 2 lectures; 2 laboratories; 4 credits.

CHEMISTRY

HAROLD A. IDDLER, *Professor*
MELVIN M. SMITH, *Associate Professor*
HEMAN C. FOGG, *Assistant Professor*
JAMES A. FUNKHOUSER, *Assistant Professor*
RICHARD H. KIMBALL, *Assistant Professor*
CHARLES M. MASON, *Assistant Professor*
CHARLES R. DAWSON, *Instructor*
EVERETT H. LANG, *Assistant*
RAYMOND B. SEYMOUR, *Assistant*
EVAN C. NOONAN, *Assistant*
HOLLIS L. LELAND, *Assistant*

BREAKAGE. A breakage deposit is required in certain laboratory courses, from which the actual breakage is deducted. The deposit receipt must be presented to the instructor at the first class meeting.

1-a, 2-b, 3-c. **INORGANIC CHEMISTRY.** The course covers the fundamental laws and conceptions of chemistry; a study of the non-metals and metals together with their compounds. Facts and practical applications are given and the principles are explained and illustrated by demonstrations in the lectures. Associate Professor Smith, Assistant Professor Funkhouser, Assistant Professor Kimball, and Mr. Dawson.

Elective for Liberal Arts students. Required of all Freshmen in the College of Technology, Freshmen in Agriculture and Sophomores in Home Economics. The class will be sectioned for those entering with credit and without credit in high school Chemistry. 2 lectures; 1 recitation; 1 laboratory; 4 credits.

4-b, 5-c. **INORGANIC CHEMISTRY.** Similar to Chemistry 2-b, 3-c, but designed for majors in Chemistry. Professor Iddles and Associate Professor Smith.

Required of Freshmen in Chemistry. 2 lectures; 1 recitation; 2 laboratories; 5 credits.

22-a, 23-b, 24-c. **INTRODUCTORY ANALYTICAL CHEMISTRY.** The course is divided into two parts, the division taking place about the middle of the second term. The first half is devoted to qualitative analysis. This includes both the theory and laboratory practice involved in the separation and identification of the common metallic

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and acidic constituents in both simple and complex mixtures. The second half covers theory, problems and laboratory technique necessary in gravimetric analysis and acidimetry. Assistant Professor Fogg and Mr. Dawson.

Prerequisite: Chemistry 3-c or 5-c. Required of Sophomores in Chemistry; elective for others. 2 lectures; 2 laboratories; 4 credits. Deposit: Ten dollars for the year.

25-a, 26-b, 27-c. INTRODUCTORY QUANTITATIVE AND QUALITATIVE ANALYSIS. The course is divided into two parts, the division taking place about the middle of the second term. The first half covers the theory, problems and manipulation involved in some of the common procedures in quantitative analysis and includes work in both gravimetric and volumetric methods. A larger proportion of the time is devoted to volumetric work than in course 22-a, 23-b, 24-c and includes acidimetry, the determination of pH, oxidation-reduction processes, etc. The work is designed to meet the needs of students who do not expect to continue with more advanced quantitative analysis. The second part deals with the theory and laboratory practice of qualitative analysis. It includes the separation and identification of the more common metallic and acidic constituents in both simple and complex mixtures. A knowledge of the chemical calculations taken up in 1-a, 2-b, 3-c is very essential. Assistant Professor Fogg and Mr. Dawson.

Prerequisite: Chemistry 3-c. Required of Pre-medical Sophomores. 1 lecture; 2 laboratories; 3 credits. Deposit: Ten dollars for the year.

30-a, 31-b, 32-c. QUANTITATIVE ANALYSIS. This is a continuation of 22-a, 23-b, 24-c and covers the theory, problems and methods involved in the determination of pH, precipitation reactions, oxidimetry, electro-analysis, colorimetry, gas and fuel analysis, etc. An attempt is made to present modern trends and newer procedures in quantitative analysis. Assistant Professor Fogg.

Prerequisite: Chemistry 24-c. Required of Juniors in Chemistry. Elective for Liberal Arts students. 2 lectures; 3 laboratories; 5 credits. Deposit: Ten dollars for the year.

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40-a, 41-b, 42-c. ORGANIC CHEMISTRY. The lectures deal with the principal classes of organic compounds, aliphatic and aromatic, with emphasis upon class reactions and structural theory. In the laboratory, the preparation and purification of a selected number of organic compounds is carried on. The latter part of the laboratory work involves the use of group reactions for the identification of organic substances in a systematic scheme or qualitative organic analysis. Professor Iddles.

Prerequisite: Chemistry 24-c. Required of Juniors in Chemistry; elective for others. 3 lectures; 2 laboratories; 5 credits. Deposit: Ten dollars for the year.

46-a, 47-b, 48-c. ORGANIC CHEMISTRY. Lectures and recitations. An introductory course in the study of the chemistry of carbon compounds considered with the needs of a pre-medical student in mind. Assistant Professor Funkhouser.

Prerequisite: Inorganic Chemistry. Elective for Liberal Arts students. Required of Junior Pre-medical students. 3 lectures; 3 credits.

49-a, 50-b, 51-c. ORGANIC CHEMISTRY LABORATORY. The work in this course consists mainly of laboratory practice in preparing and purifying organic compounds. Lectures and recitations will be held from time to time in connection with the practice. This is a companion course to 46-a, 47-b, 48-c, and must be taken parallel with that course. Assistant Professor Funkhouser.

Elective for Liberal Arts students. Required of Junior Pre-medical students. 2 laboratories; 2 credits. Deposit: Ten dollars for the year.

66-a, 67-b, 68-c. ELEMENTARY PHYSICAL CHEMISTRY. A course devoted to those parts of physical and theoretical chemistry which have found important applications in physiology, bacteriology, in other branches of biological science and agriculture. Assistant Professor Mason.

Prerequisite: Inorganic Chemistry and Physics 19-c or 3-c. 2 lectures; 2 credits. This is a course designed particularly as an introduction to the study of Physical Chemistry.

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80-a, 81-b, 82-c. **THESIS, BIBLIOGRAPHY AND SEMINAR.** The thesis time is devoted to some selected subject, and the student is required to present a thesis showing him to be a careful manipulator and a person of independent thought. In the first term the bibliography work is designed to aid the student in the use of the chemical library, particularly in the use of various chemical journals, dictionaries, reference books and other sources of information pertaining to chemical subjects. In the second and third terms, a weekly meeting is held to discuss recent topics of interest in chemistry. Members of the staff.

For Seniors in Chemistry who have completed Chemistry 32-c and 42-c. 1 lecture; 5 laboratories; 7 credits.
Deposit: Ten dollars for the year.

100-a, 101-b. **ADVANCED INORGANIC CHEMISTRY.** A course of study of the elements from the standpoint of the periodic law. This study is preceded by a detailed examination of the following topics: atomic structure, radioactivity, valence. The elements are then discussed by groups as they occur in the periodic system. Werner's theory of complex compounds is taken up at the close of the work. The historical background for all these topics is developed in some detail. Assistant Professor Funkhouser.

Prerequisite: Chemistry 24-c. Required of Juniors in the Technology Curriculum in Chemistry. Elective for others. 3 lectures; 3 credits.

110-a, 111-b, 112-c. **INDUSTRIAL CHEMISTRY.** This course consists of a study of inorganic chemical processes, organic chemical processes and some of the unit processes of chemical engineering. Professor Iddles, Assistant Professors Fogg and Mason.

Prerequisite: Chemistry 32-c and 42-c. Required of Seniors in Chemistry. 3 lectures; 3 credits.

152-a, 153-b, 154-c. **ADVANCED ORGANIC CHEMISTRY.** A consideration of the more advanced theories of organic chemistry. Assistant Professor Kimball.

Prerequisite: Chemistry 42-c or 48-c. Elective for Seniors in Chemistry who take their theses in Organic Chemistry. Elective for others. 3 lectures; 3 credits.

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160-c. PHYSICAL CHEMISTRY. This course will take up the general principles of chemistry from the exact quantitative standpoint. It will include a comprehensive study of molecular weights, solids, liquids, gases and colloids. A large number of problems will be assigned for solution by the student. Assistant Professor Mason.

Prerequisite: Chemistry 31-b, Mathematics 9-c, Physics 8-c. Required of Juniors in Chemistry. Elective for others. 3 lectures; 3 credits.

161-a, 162-b, 163-c. PHYSICAL CHEMISTRY (continuation of 160-c). The principles of thermodynamics will be presented and their application to chemistry discussed. This will be used as a basis for the study of solutions, ionic theory, chemical equilibria, thermo-chemistry, conductance, electromotive force, etc. The experiments in the laboratory will include quantitative measurements illustrating the principles studied in the lectures. A large number of problems will be assigned for solution by the student. Assistant Professor Mason.

Prerequisite: Chemistry 160-c. Required of Seniors in Chemistry. 3 lectures; 2 laboratories; 5 credits. Deposit: Ten dollars for the year.

For courses primarily for graduate students, see Catalog of the Graduate School.

CIVIL ENGINEERING

EDMOND W. BOWLER, *Professor*

RUSSELL R. SKELTON, *Assistant Professor*

CHARLES O. DAWSON, *Instructor*

1-c. PLANE SURVEYING. Theory and use of tape, level and transit. Field work consists of taping, differential and profile leveling, angle measurement and traversing. Mr. Dawson.

Prerequisite: Mathematics 2-b. Required of all Freshmen in the College of Technology, except those taking Architecture and Technology Curriculum in Chemistry. 1 recitation; 2 laboratories; 3 credits.

2-a. TOPOGRAPHIC SURVEYING. Theory and use of transit, level, plane table and stadia on topographic surveys. City surveying. Adjustments of levels and transits. The field work for a topographic

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map of a selected area is completed in the field. Professor Bowler, Mr. Dawson.

Prerequisite: Civil Engineering 1-c. Required of Sophomores in Civil Engineering. 1 recitation; 2 laboratories; 3 credits.

3-b. TOPOGRAPHIC DRAWING. Exercises in lettering, conventional signs, and map making, including the preparation of a topographical map from survey notes obtained in Civil Engineering 2-a. Mr. Dawson.

Prerequisite: Civil Engineering 2-a. Required of Sophomores in Civil Engineering. 3 laboratories; 3 credits.

4-c. RAILROAD CURVES. Theory of simple and compound curves. Field work consists of layout of simple and compound curves, special attention being given to practical problems often met in the field. Mr. Dawson.

Prerequisite: Civil Engineering 2-a. Required of Sophomores in Civil Engineering. 1 recitation; 2 laboratories; 3 credits.

6-c. PLANE SURVEYING. Theory and use of tape, level and transit. The field work consists of taping, differential leveling, and traversing, with direct application to the problems found in forestry. Mr. Dawson.

Prerequisite: Mathematics 22-b or 2-b. Recommended for Sophomores in Forestry. 1 recitation; 2 laboratories; 3 credits.

7-a. TOPOGRAPHIC SURVEYING. Theory and use of transit, level and stadia in topographic surveying. A topographic survey of a small area is made in the field and the map plotted in the drafting room. Mr. Dawson.

Prerequisite: Civil Engineering 6-c. Required of Juniors in Forestry. 1 recitation; 2 laboratories; 3 credits.

8-b. ENGINEERING ASTRONOMY. A study of the underlying theories used in the determination of latitude, longitude and azimuth from astronomical observations. Mr. Dawson.

Prerequisite: Civil Engineering 2-a. Required of Sophomores in Civil Engineering. 3 recitations; 3 credits.

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20-c, 21-a. HIGHWAY LOCATION. A preliminary field location of about one mile of highway line. The information obtained in the field is to be used in preparing a topographic strip map from which the final location is obtained. Methods of taking cross sections, setting slope stakes and staking drainage structures are studied. Astronomical observation for azimuth is required as a check on the line. Assistant Professor Skelton and Mr. Dawson.

Prerequisites: Civil Engineering 3-b and Civil Engineering 4-c either in parallel or as a prerequisite. Required of Sophomores in Civil Engineering. 20-c: 1 recitation; 2 laboratories; 3 credits. 21-a: 2 laboratories; 2 credits.

22-a. MATERIALS. Designed to acquaint the student with the methods of manufacture, properties and applications of the various materials in engineering use, including timber, steel, stone, brick, cement, concrete, gravel, soils and bituminous materials. Assistant Professor Skelton.

Prerequisites: Civil Engineering 20-c and Mechanical Engineering 52-a either in parallel or as a prerequisite. Required of Juniors in Civil Engineering. 2 recitations; 2 credits.

23-a, 24-b. HIGHWAY ENGINEERING AND TRANSPORTATION. A detailed study of the economics of location and design of highways and city streets, the construction, maintenance and specifications governing the various types, and the administration and financing of our highway system. A consideration of the historical development of the transportation system, including land, water and air forms. Special emphasis is given to highway transportation and its influence on the social, economic and industrial growth as well as the many problems arising out of the use of the highway as an agency of transportation. Assistant Professor Skelton.

Prerequisites: Civil Engineering 20-c and 21-a. Required of Seniors in Civil Engineering. 2 recitations; 2 laboratories; 4 credits.

25-c. RAILWAY ENGINEERING. A general course dealing with the theory and problems incident to railway construction and maintenance. A further study of railway transportation is carried forward

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with a view towards the correlation of all forms of transportation.
Assistant Professor Skelton.

Prerequisites: Civil Engineering 24-b. Required of Seniors in Civil Engineering. 2 recitations; 2 laboratories; 4 credits.

41-b, 42-c. HYDRAULICS. A study of the principles of hydrostatics and hydrokinetics including the laws governing static and dynamic pressure, the flow of water through orifices, tubes, nozzles, weirs, pipe lines and open channels. The theory of hydraulic machinery is given in the spring term. These courses include laboratory exercises in hydraulic machinery and in stream gaging. Professor Bowler.

Prerequisite: Mechanical Engineering 43-a. Required of Juniors in Civil Engineering. 41-b: 3 recitations; 3 credits. 42-c: 3 recitations; 1 laboratory; 4 credits.

43-a, 44-b. HYDRAULICS. Fundamental principles of hydrostatics and hydrokinetics. A study of fluid pressures, hydraulic gauges and meters, flow through orifices and nozzles, flow over weirs, pipe flow, flow in open channels, and the dynamic action of jets and streams. Mr. Dawson.

Prerequisite: Mechanical Engineering 43-a. Required of Seniors in Mechanical Engineering. 43-a: 3 recitations; 3 credits. 44-b: 2 recitations; 2 credits.

45-b. HYDRAULICS. Fundamental principles of hydrostatics and hydrokinetics. A study of fluid pressures, hydraulic gauges and meters, flow through orifices and nozzles, flow over weirs, pipe flow, flow in open channels and the dynamic action of jets and streams. Mr. Dawson.

Prerequisite: Mechanical Engineering 43-a. Required of Seniors in Electrical Engineering. 4 recitations; 4 credits.

50-a, 51-b, 52-c. HYDRAULIC AND SANITARY ENGINEERING. A study of water power engineering, water supply and purification and sewerage and sewage disposal. This course covers precipitation, water losses, run-off, drainage areas, stream flow, water power estimates, hydraulic turbines, dams and water ways; the sources, quantity, quality and sanitary aspects of public water supplies; the methods of

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purification and distributing systems; the theory and problems of sewerage, the principles governing the disposal of sewage and the various methods of sewage treatment. This course consists of lectures, recitations, computations, reports and problems of design. Professor Bowler.

Prerequisite: Civil Engineering 42-c. Required of Seniors in Civil Engineering. 3 recitations; 1 laboratory; 4 credits.

60-a, 61-b, 62-c. STRESSES. The graphical and analytical methods of determining reactions, moments and shears in beams, girders and trusses under fixed and moving loads and the stresses in individual members. Professor Bowler.

Prerequisites: Mathematics 8-b and Mechanical Engineering 43-a, either as a prerequisite or in parallel. Required of Juniors in Civil Engineering. 3 recitations; 1 laboratory; 4 credits.

63-a, 64-b, 65-c. STRUCTURAL DESIGN. Theory and problems relating to the design of steel bridges of the girder and truss type, steel and timber roof trusses, and frames of buildings. This course also includes a study of the theory of both plain and reinforced concrete structures such as slabs, beams, columns, piers, footings, retaining walls, and concrete bridges. Assistant Professor Skelton.

Prerequisite: Civil Engineering 62-c. Required of Seniors in Civil Engineering. 2 recitations; 2 laboratories; 4 credits.

70-a, 71-b, 72-c. BUILDING CONSTRUCTION. A study of the materials used in architectural construction and the considerations affecting their choice for various parts of the structure. General types of structures classified according to use and materials used. Structural units. (Retaining walls, footings, piers, columns, beams, girders, trusses, etc.)

Prerequisites: Physics 27-a, 28-b, 29-c, and Mechanical Engineering 49-a, 50-b, 51-c, either as a prerequisite or in parallel. Required of Juniors in Architecture. 2 recitations; 1 laboratory; 3 credits.

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73-a, 74-b, 75-c. **BUILDING CONSTRUCTION.** Problems in determination of loads and stresses and principles of stability in buildings. Study of the fundamental principles involved in the different types of building construction and some idea of the typical proportions imposed by the use of different kinds of materials. Theory and practice in structural design, including the making of complete framing drawings of a building. This work is made a part of and must be carried in parallel with Arch. 60-a, 61-b, 62-c.

Prerequisites: Civil Engineering 70-a, 71-b, 72-c, and Mechanical Engineering 49-a, 50-b, 51-c, either in parallel or as a prerequisite. Required of Seniors in Architecture. 3 laboratories; 3 credits.

76-b. **BUILDING SANITATION.** A study of water, soil, waste, and vent pipe systems within the building; plumbing fixtures, traps, etc., and their installation, and the fundamentals of their layout in different types of buildings.

Required of Seniors in Architecture. 1 recitation; 1 credit.

80-a, 81-b, 82-c, 83-a, 84-b, 85-c. **STUDENT CHAPTER OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS.** Junior and Senior students in Civil Engineering are required to join the student chapter of the American Society of Civil Engineers. In addition to the ordinary life of the student chapter which is carried on under the guidance of the student officers the chapter meets once a week under the direction of an instructor. These meetings consist chiefly of the presentation of prepared addresses by the student members. Professor Bowler and Assistant Professor Skelton.

Required of Juniors and Seniors in Civil Engineering.
No credit.

90-b, 91-c. **THESIS.** The thesis embodies research or commercial investigation in which equal emphasis is placed upon the composition and accuracy of subject matter. Professor Bowler, Assistant Professor Skelton and Mr. Dawson.

Prerequisite: English 101-a. Required of Seniors in Civil Engineering. 1 conference each week; 2 credits.

DAIRY HUSBANDRY

KENNETH S. MORROW, *Professor*

HERBERT C. MOORE, *Instructor*

1-b. MILK AND ITS PRODUCTS. A general study of such topics as the composition of milk and other dairy products, dairy manufacturing processes, and market milk. Professor Morrow.

Recommended elective for Freshmen in Agriculture. 3 lectures; 1 laboratory; 4 credits. Elective as a lecture course for other students. 3 lectures; 3 credits.

2-c. DAIRY CATTLE JUDGING. Animals in the college herd and in nearby herds will be judged. Professor Morrow.

Students interested in competing for places on the dairy cattle judging team should elect this course. Required of Sophomores in Dairy Husbandry. 1 lecture; 1 laboratory; 2 credits.

3-a, 3.5-b. MILK PRODUCTION. The field of dairy husbandry in its relation to the producer. Feeding the dairy animals; silage and soiling; raising dairy animals; dairy herd development; dairy barns; advanced registry management; fitting dairy animals for show; dairy cattle judging. Professor Morrow.

Required of Seniors in Dairy Husbandry. 3-a: 3 lectures; 1 laboratory; 4 credits. 3.5-b: 2 lectures; 1 laboratory; 3 credits.

4-c. TESTING DAIRY PRODUCTS. A thorough study of the Babcock test, with special work in testing various dairy products for butter fat; acidity tests for milk and cream; moisture tests for butter and cheese; use of lactometer. Mr. Moore.

Required of Seniors in Dairy Husbandry. 1 lecture; 2 laboratories; 3 credits.

5-a. MARKET MILK. Producing, handling, and distributing market and certified milk; dairy farm inspection; control of milk supply. Mr. Moore.

Required of Seniors in Dairy Husbandry. 3 lectures; 1 laboratory; 4 credits.

6-b. ICE CREAM AND CHEESE MAKING. (1) Lectures covering the manufacture of the more important types of cheese; (2) the making, handling, and marketing of ice cream and ices. Mr. Moore.

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Required of Seniors in Dairy Husbandry. 3 lectures; 1 laboratory; 4 credits.

7-b. BUTTER MAKING. A study of the secretion and of the chemical and physical properties of milk; pasteurization; cream ripening, starters, churning; organization and operation of factories. Mr. Moore.

Required of Seniors in Dairy Husbandry. 2 lectures; 1 laboratory; 3 credits.

8-a. DOMESTIC DAIRYING. Nutritive value of milk, market milk, modified milk, certified milk, condensed milk, milk powder, fermented milk, butter, cheese, and ice cream. Laboratory exercises are given in the manufacture of dairy products. Mr. Moore.

Elective for Juniors and Seniors in Home Economics and in Liberal Arts curricula. 2 lectures; 1 laboratory; 3 credits.

9-c. DAIRY BACTERIOLOGY. Methods of bacteriological analysis of milk and its products; relation of bacteria to milk and its products; study of effect on bacteria in milk of separation, clarification, pasteurization, aëration, and straining; and the application of bacteriological principles to the dairy industry. Mr. Moore.

Prerequisite: Botany 8.5-b. Required of Juniors in Dairy Husbandry. 3 lectures; 2 laboratories; 5 credits.

10-c. DAIRY SEMINAR. Studies of experiment station and other literature covering the field of dairy husbandry. Professor Morrow.

Required of Seniors in Dairy Husbandry. Elective for other students. 1 to 2 credits.

11-c. JUDGING DAIRY PRODUCTS. The various standards and grades of dairy products will be studied. Practice will be given in judging milk, butter, cheese, and ice cream. Mr. Moore.

Elective for all students. 1 laboratory; 1 credit.

12-c. ADVANCED DAIRY CATTLE JUDGING. Comparative judging of dairy cattle. Written summary covering subject of judging. Professor Morrow.

Prerequisite: Dairy Husbandry 2-c. Elective for agricultural students. 1 lecture; 1 laboratory; 2 credits.

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13-c. **ADVANCED DAIRY SCIENCE.** Basic data, fundamental observations, and discussions of research contributing to the present status of the dairy industry. Mr. Moore.

Required of Seniors in Dairy Husbandry. Elective for other students who have adequate preparation in chemistry and bacteriology. 3 lectures; 4 credits.

ECONOMICS AND ACCOUNTING

HARRY W. SMITH, *Professor*

ARTHUR W. JOHNSON, *Associate Professor*

NORMAN ALEXANDER, *Associate Professor*

JOHN D. HAUSLEIN, *Assistant Professor*

RUTH J. WOODRUFF, *Assistant Professor*

CLAIR W. SWONGER, *Assistant Professor*

CARROLL M. DEGLER, *Instructor*

DOROTHY C. SMALL, *Instructor*

ECONOMICS

History, Philosophy and American Government will be approved as related work for a major in Economics.

Introductory Courses. Group A

1-a, 2-b, 3-c. **PRINCIPLES OF ECONOMICS.** This is a beginner's course and is planned for students who wish a general introduction to the field of Economics. Assistant Professors Woodruff and Swonger and Mr. Degler.

Required of all students majoring in Economics and of General Business students. Elective for other Sophomores, Juniors and Seniors. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

Service Courses. Group B

104-a. **ECONOMIC HISTORY OF THE WORKING CLASSES.** This course will trace the development of the laboring class from early times to the present, with emphasis upon recent labor conditions. Professor Smith.

For Juniors and Seniors in the College of Technology only. 3 lectures or recitations; 3 credits.

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105-b. THE LEGAL PRINCIPLES OF BUSINESS TRANSACTIONS. Associate Professor Alexander.

For Juniors and Seniors in the College of Technology only. 3 lectures or recitations; 3 credits.

106-c. BUSINESS ORGANIZATION AND FINANCE. A study of the forms of organization and the methods of financing business enterprise. Assistant Professor Swonger.

For Juniors and Seniors of the College of Technology and Agriculture only. 3 lectures or recitations; 3 credits.

Advanced Courses. Group C

6-a. ECONOMIC AND COMMERCIAL GEOGRAPHY. This course aims to acquaint the student with the economic aspect of geography and to survey the chief industries of the world and the principal commodities of world trade. Assistant Professor Swonger.

Required of General Business students. Elective for Sophomores. 3 lectures or recitations; 3 credits.

7-b, 8-c. ECONOMIC AND COMMERCIAL DEVELOPMENT. This course will trace the commercial, economic and financial development of Europe and the United States. Special attention will be paid to this development during the last century. Mr. Degler.

Required of General Business students. Elective for Sophomores. 3 lectures or recitations; 3 credits.

Prerequisite for the following courses: Completion of one year's work in Principles of Economics except as designated

10-a. LABOR PROBLEMS. This course deals with the historical background and present status of labor organizations and problems. Professor Smith.

Prerequisite: Economics 3-c. Required of General Business students. 4 lectures or recitations; 4 credits.

11-b. TRANSPORTATION. This course gives an account of the development and organization of transportation agencies. Professor Smith.

Prerequisite: Economics 3-c. 4 lectures or recitations; 4 credits.

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12-c. PUBLIC FINANCE. This course presents the theory and practice of public expenditures and revenues together with changed tendencies and taxation reform, as well as taxation problems in the State of New Hampshire. Professor Smith.

Prerequisite: A satisfactory average in 18 credits in Economics. 4 lectures or recitations; 4 credits.

13-a, 14-b, 15-c. MONEY AND BANKING. The theory and practice of money and banking. Assistant Professor Swonger.

Prerequisite: Economics 3-c. 13-a and 14-b are required of General Business students. Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

17-b. INTERNATIONAL TRADE. The basic theories of international trade, foreign exchange and international payments. Assistant Professor Woodruff.

Prerequisites: Economics 3-c and 13-a. 3 lectures or recitations; 3 credits.

18-c. MARKETING. A course to acquaint the student with the importance and complications of the marketing function. Mr. Degler.

Prerequisite: Economics 3-c. Required of General Business students. Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

22-a. CORPORATIONS. This course deals with the evolution and forms of business organization. Mr. Degler.

Prerequisite: Economics 3-c. Elective for Juniors and Seniors. Required of Juniors in General Business. 3 lectures or recitations; 3 credits.

23-b. CORPORATION FINANCE. A study of the methods of financing corporate enterprise. Assistant Professor Swonger.

Prerequisite: 22-a. Elective for Juniors and Seniors. Required of Juniors in General Business. 3 lectures or recitations; 3 credits.

24-c. PUBLIC REGULATION OF BUSINESS. A study of the federal control of business with special reference to the trust legislation of this Administration. Associate Professor Alexander.

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Prerequisite: Economics 23-b. Elective for Juniors and Seniors. Required of Juniors in General Business. 3 lectures or recitations; 3 credits.

34-a, 35-b, 36-c. HISTORY OF ECONOMICS. It is the aim of this course to present a critical account of the development of economic thought in the leading nations of the Western world; to study the economic systems of Greece, Rome, medieval and modern Europe, including the manorial, guild, mercantile, kameralistic, physiocratic, laissez faire, classical, historical and socialistic systems; and to indicate the important relations of economic philosophy to historical, political and social environment. Professor Smith.

Prerequisite: Senior standing and a satisfactory average in 18 credits in Economics. 3 lectures or recitations; 3 credits.

40-a, 41-b, 42-c. SEMINAR IN CURRENT ECONOMIC PROBLEMS. Professor Smith.

Elective for Seniors majoring in Economics who have attained a satisfactory average in the department. Recitations and reports; 3 credits.

57-c. SALESMANSHIP. A course designed to analyze the fundamental principles of personal selling. Consideration of the personal qualifications of the successful salesman; motives which prompt purchasing and the various appeals to these motives. The construction of sales arguments, etc.

Required of General Business students. Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits. (Not given in 1935-36.)

71-a, 72-b, 73-c. COMMERCIAL LAW. This is a study of the law of contracts, agency, sales and negotiable instruments. Associate Professor Alexander.

Required of General Business students. Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

ACCOUNTING

NOTE.—Students who have completed two or more years of bookkeeping in preparatory school will be permitted to register for Intermediate Accounting (115-a, 116-b,

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117-c) upon passing an examination covering the material of Elementary Accounting (112-a, 113-b, 114-c).

Schedule the following courses as Acct. 112-a, etc.

112-a, 113-b, 114-c. **ELEMENTARY ACCOUNTING.** A thorough study of the basic principles and theory of accounting. Extensive practice in accounting problems of the single proprietorship and partnership types of business organization. Assistant Professor Hauslein.

Required of General Business Sophomores. Elective for other Sophomores, Juniors and Seniors. 2 lectures or recitations; 2 laboratories; 4 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

115-a, 116-b, 117-c. **INTERMEDIATE ACCOUNTING.** This course is designed to follow 114-c, continuing with the work in partnerships, followed by a comprehensive study of corporation accounting. Extensive practice work in handling problems of corporation accounting. Associate Professor Johnson.

Required of General Business Juniors. Elective for students who have completed Accounting 114-c or its equivalent. See note above. 2 lectures or recitations; 2 laboratories; 4 credits.

118-a, 119-b, 120-c. **ADVANCED ACCOUNTING.** Advanced theory of accounting and extensive practice in solving problems involving such theory. Study of Federal Income Tax law and the accounting procedure in connection therewith. Practice in computing income tax returns. Associate Professor Johnson.

Elective for such students as have completed Accounting 117-c or its equivalent. 2 lectures or recitations; 2 laboratories; 4 credits.

121-a, 122-b, 123-c. **COST ACCOUNTING.** The relation of cost accounting to general accounting. The place of cost accounting in modern business. Study of various cost systems and their applications to particular lines of business. Careful analysis of methods of computing costs. Associate Professor Johnson.

Elective for students who have completed Accounting 117-c or its equivalent. 2 lectures or recitations; 2 laboratories; 4 credits.

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SPECIAL COURSES IN ACCOUNTING

124-a, 125-b. HOUSEHOLD AND INSTITUTIONAL ACCOUNTING. This course is designed primarily for students of Home Economics.

Elective for Liberal Arts women students. (Not given in 1935-36.)

131-a, 132-b, 133-c. ELEMENTS OF ACCOUNTS. This course is open only to Agriculture and Technology students. Assistant Professor Hauslein.

3 lectures or recitations; 3 credits.

SHORTHAND AND TYPEWRITING

Schedule the following courses as Shorthand 141-a, etc., and Typewriting 151-a, etc.

141-a, 142-b, 143-c. SHORTHAND. A thorough study of the fundamental principles of Gregg shorthand. Miss Small.

5 lectures or recitations; 3 credits.

144-a, 145-b, 146-c. SHORTHAND. Development of a vocabulary, speed and accuracy in taking dictation. Students electing this work must also elect Typewriting 154-a, 155-b, 156-c. Miss Small.

Prerequisite: Shorthand 141-a, 142-b, 143-c, or the equivalent. 5 lectures or recitations; 3 credits.

151-a, b, c; 152-a, b, c; 153-a, b, c. TYPEWRITING. This course includes keyboard drill; practice in setting up letters and business forms, tabulating and stencil cutting. Miss Small.

5 laboratories; 2 credits.

154-a, 155-b, 156-c. TYPEWRITING. Transcription of shorthand notes. Typing of legal and technical forms, etc. To be taken only in conjunction with Shorthand 144-a, 145-b, 146-c. Miss Small.

5 laboratories; 2 credits.

161-a, b, c. OFFICE PRACTICE. The work will consist of lectures, demonstrations, study and practice of modern office methods. Miss Small.

Elective for women students only. Lectures, demonstrations, laboratories; 3 credits.

EDUCATION

A. MONROE STOWE, *Professor*

HARLAN M. BISBEE, *Associate Professor*

JOHN C. HERRING, *Instructor*

HELEN F. McLAUGHLIN, *Professor (Home Economics-Education)*

LUCINDA P. SMITH, *Associate Professor (English-Education)*

WALTER E. WILBUR, *Associate Professor (Mathematics-Education)*

MARGARET R. HOBAN, *Assistant Professor (Physical Education)*

JOHN A. FLOYD, *Instructor (Language-Education)*

*EARL H. LITTLE, *Instructor (Agriculture-Education)*

The purpose of the courses in Education is to unite and correlate the forces of the University which contribute to the preparation of educational leaders in teaching and supervision in the secondary schools.

The prospective teacher of agriculture, industrial arts, home economics or any other subject should, with the advice of the members of the department, plan his course as soon as possible.

A selected group of students who have satisfactorily completed Education 121-a, 122-b, 123-c in their Sophomore year will be admitted annually to the curriculum in Professional Education. Candidates for admission to this curriculum must file application with the Head of the Department of Education on or before June 1 of each year. In order to complete the curriculum to which a candidate is admitted, he must obtain a mark of 75 or better in the following courses in Education: 121-a, 122-b, 123-c, 131-a, 132-b, 133-c, 141-a, 142-b, 143-c and 163. He must also maintain an average of 75 or better in thirty-six credits earned in the subject-matter which he proposes to teach.

121-a, 122-b, 123-c. **PSYCHOLOGICAL PRINCIPLES OF SECONDARY EDUCATION.** The purpose of this course in educational psychology is to help students acquire an appreciative understanding of important principles of human behavior, of the educational needs of adolescents, and of the most effective ways of meeting those needs.

Open to Sophomores. Required of students majoring in Education or enrolled in the Professional Education curriculum. Not open to students who have credit for 31-a, 32-b, and 43-c. 3 class meetings; 3 credits.

*Representing the State Department of Education in the administration of the Smith-Hughes Act.

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131-a, 132-b, 133-c. SOCIAL PRINCIPLES OF SECONDARY EDUCATION. This course in educational sociology and secondary education is devoted to a consideration of the educationally significant aspects and needs of our modern democratic society and to a study of the organization, functions, curricula and outstanding problems of our American institutions of secondary education.

Open to students who have satisfactorily completed 121-a, 122-b, 123-c. Required of students majoring in Education or enrolled in the Professional Education curriculum. Not open to students who have credit for 21-a, 38-a, and 39-b. 3 class meetings; 3 credits.

141-a, 142-b. PRINCIPLES AND PROBLEMS OF TEACHING IN THE SECONDARY SCHOOL. This course is devoted to a study of the following aspects of teaching in secondary schools:

- (1) Secondary school objectives and the objectives in the teaching of secondary school subjects.
- (2) Principles of teaching and of directing learning incorporated in teaching which meets the needs of high school students and attains the objectives of the secondary school.
- (3) Secondary school tests and the ways in which teachers are endeavoring to ascertain the extent to which their objectives are being attained.
- (4) Class management, the purpose of which is to insure conditions favorable to the attainment of the objectives of the secondary school.

Open to students who have satisfactorily completed 121-a, 122-b, 123-c. Required of students majoring in Education or enrolled in the Professional Education curriculum. Not open to students who have credit for 23-c and 40-c. 3 class meetings; 3 credits.

143-c. NEW HAMPSHIRE STATE PROGRAM OF STUDIES AND SCHOOL LAW. A study of the aims and purposes, the plan of organization and administration of the secondary school as outlined in the New Hampshire State Program of Studies and School Law.

Open to Juniors and Seniors. Not open to students who have credit for 44-b, c. Preparatory for the State examinations in Secondary Program and in School Law. 3 class meetings; 3 credits.

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144-a, 145-b, 146-c. HISTORY OF EDUCATION.

Open to students who have satisfactorily completed 121-a, 122-b, 123-c and 131-a, 132-b. Not open to students who have credit for 21-a and 22-b. Elective. 3 credits. (Not offered in 1935-36.)

147-c. PHILOSOPHY OF EDUCATION. A consideration of the fundamental concepts and ultimate objectives of education, current educational doctrines and controversies, changes in educational procedures, historic background and philosophical implications.

Open to students who have satisfactorily completed 121-a, 122-b, 123-c and 131-a, 132-b, 133-c. Not open to students who have credit for 47-c. 3 class meetings; 3 credits.

149-a. DEMOCRACY IN EDUCATION AND CHARACTER DEVELOPMENT. This course will discuss student participation in high school control; social functions; the underlying principles of club work; the problem of character education and a discussion of the moral standards in our high schools as revealed by investigations.

Open to Seniors who have satisfactorily completed 121-a, 122-b, 123-c. Not open to students who have credit for 52-a. 3 class meetings; 3 credits.

151-a, 152-b. PRINCIPLES AND PROBLEMS OF PUBLIC SCHOOL ADMINISTRATION. 3 credits.

(A substitute for Education 45-a. Not offered in 1935-36.)

153-a, 154-b. PRINCIPLES AND PROBLEMS OF HIGH SCHOOL ADMINISTRATION. 3 credits.

(A substitute for 46-b. Not offered in 1935-36.)

155-a, 156-b. PRINCIPLES AND PROBLEMS OF HIGH SCHOOL SUPERVISION. 3 credits.

(Not offered in 1935-36.)

157-a, 158-b, 159-c. SEMINAR IN EDUCATIONAL PROBLEMS. The problems to be studied will depend upon the interests of the students enrolled in the seminar.

Open to Seniors and graduate students majoring in Education. Credits to be arranged. (A substitute for Education 55-a, 56-b, 57-c.)

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COURSES IN PROBLEMS IN THE TEACHING OF HIGH SCHOOL SUBJECTS

The following courses in professionalized subject-matter are devoted to a study of problems of objectives, selection and organization of subject-matter, teaching and testing techniques and class-room management in the teaching of the respective subjects.*

AGRICULTURE-EDUCATION (AG.-ED.) 161-b. PROBLEMS IN THE TEACHING OF HIGH SCHOOL AGRICULTURE. Mr. Little.

Required of Seniors taking the Agricultural Teacher-Training curriculum, and open only to those students. 3 class meetings; 3 credits.

ENGLISH-EDUCATION (ENG-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL ENGLISH. Associate Professor Smith.

3 class meetings; 3 credits.

FRENCH-EDUCATION (FR-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL FRENCH. Mr. Floyd.

3 class meetings; 3 credits.

HISTORY-EDUCATION (HIST-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL HISTORY. Professor Stowe.

Open to students who have satisfactorily completed History 25-a, 26-b, 27-c, Political Science 25-a, 26-b, 27-c, Economics 1-a, 2-b, 3-c or 6-a, 7-b, 8-c, and Education 40-c or 141-a, 142-b, 143-c. 3 class meetings; 3 credits.

HOME ECONOMICS-EDUCATION (H.E.-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL ECONOMICS. Professor McLaughlin.

Required of Seniors in Home Economics Teacher-Training and Extension Curricula. 3 class meetings; 3 credits.

MATHEMATICS-EDUCATION (MATH-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL MATHEMATICS. Associate Professor Wilbur.

3 class meetings; 3 credits.

PHYSICAL EDUCATION (P-E) 161-a. PROBLEMS IN THE TEACHING OF PHYSICAL EDUCATION. Assistant Professor Hoban.

3 class meetings; 3 credits.

*For details concerning prerequisites and nature of these courses, see description given under respective subject-matter departments.

EDUCATION

COURSES IN SUPERVISED TEACHING

In these courses the student participates in the conduct of class exercises and in the control of the classroom, at first chiefly as an observer, but gradually entering into teacher responsibilities until complete charge of the classroom is secured. Frequent conferences and discussions.

This work, required of Seniors in the Professional Education Curriculum but elective in the case of other Seniors and graduate students, is open only to students whose applications are approved by the heads of the Department of Education and of the subject-matter department in which the student desires to do supervised teaching. Applications should be filed with the Department of Education in the Spring term of the Junior year. No applications will be considered unless the applicant has completed with a grade of at least 75 the following courses in Education: 121-a, 122-b, 123-c, 131-a, 132-b, 133-c and 141-a, 142-b, and, with an average grade of 75 or better, at least 27 credits in the subject which he desires to teach under supervision.

Students may be enrolled for from 9 to 16 credits in supervised teaching in the winter term and in the fall and spring terms by special permission.

EDUCATION-AGRICULTURE (ED-AG) 163-c. SUPERVISED TEACHING IN HIGH SCHOOL AGRICULTURE. Each Senior in the Teacher-Training Curriculum will spend at least ten weeks as an apprentice teacher in some agricultural high school selected by the State Commissioner of Education and the head of the Department of Education at the University of New Hampshire. This work will be in charge of the regular teacher of Agriculture in the high school, and will be supervised by the instructor in Agricultural Education at the University of New Hampshire. Mr. Little.

Required of Seniors taking the Agricultural Teacher-Training Curriculum, and open only to those students.

EDUCATION-BIOLOGY (ED-BI) 163. SUPERVISED TEACHING IN HIGH SCHOOL BIOLOGY.

EDUCATION-CHEMISTRY (ED-CHEM) 163. SUPERVISED TEACHING IN HIGH SCHOOL CHEMISTRY.

EDUCATION-CIVICS (ED-CIV) 163. SUPERVISED TEACHING IN HIGH SCHOOL CIVICS.

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EDUCATION-COMMERCE (ED-CS) 163. SUPERVISED TEACHING IN HIGH SCHOOL COMMERCIAL SUBJECTS.

EDUCATION-ECONOMICS (ED-ECON) 163. SUPERVISED TEACHING IN HIGH SCHOOL ECONOMICS.

EDUCATION-ENGLISH (ED-ENG) 163. SUPERVISED TEACHING IN HIGH SCHOOL ENGLISH.

EDUCATION-FRENCH (ED-FR) 163. SUPERVISED TEACHING IN HIGH SCHOOL FRENCH.

EDUCATION-GERMAN (ED-GER) 163. SUPERVISED TEACHING IN HIGH SCHOOL GERMAN.

EDUCATION-HISTORY (ED-HIST) 163. SUPERVISED TEACHING IN HIGH SCHOOL HISTORY.

EDUCATION-INDUSTRIAL ARTS (ED-IA) 163. SUPERVISED TEACHING IN HIGH SCHOOL INDUSTRIAL ARTS.

EDUCATION-LATIN (ED-LAT) 163. SUPERVISED TEACHING IN HIGH SCHOOL LATIN.

EDUCATION-MATHEMATICS (ED-MATH) 163. SUPERVISED TEACHING IN HIGH SCHOOL MATHEMATICS.

EDUCATION-PHYSICS (ED-PH) 163. SUPERVISED TEACHING IN HIGH SCHOOL PHYSICS.

EDUCATION-SOCIOLOGY (ED-SOC) 163. SUPERVISED TEACHING IN HIGH SCHOOL SOCIOLOGY.

HOME ECONOMICS-EDUCATION (H.E. ED) 163. SUPERVISED TEACHING IN HIGH SCHOOL HOME ECONOMICS. Professor McLaughlin.

Required of Seniors in Home Economics Teacher-Training Curriculum.

SEMINARS IN THE TEACHING OF HIGH SCHOOL SUBJECTS

ENGLISH-EDUCATION (ENG-ED) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL ENGLISH. The continuation of English-Education 161-a. Associate Professor Smith.

Open to students who have satisfactorily completed English-Education 161-a. Not open to students who have credit for English 80-c. 3 credits.

HISTORY-EDUCATION (HIST-ED) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL HISTORY. Professor Stowe.

Open to students who have satisfactorily completed History-Education 161-a or its equivalent and have had

ELECTRICAL ENGINEERING

experience in the teaching of high school history. 3 class meetings; 3 credits. (A substitute for part of Education 40.4.)

HOME ECONOMICS-EDUCATION (H.E.-ED) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL HOME ECONOMICS. A continuation of Home Economics-Education 161-a, basing discussions on the experience of students as student teachers in the previous term. Professor McLaughlin.

Required of Seniors in Home Economics Teacher-Training Curriculum. Not open to students who have credit for Home Economics 107-c. 3 class meetings; 3 credits.

MATHEMATICS-EDUCATION (MATH-ED) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL MATHEMATICS. Associate Professor Wilbur.

Prerequisite: Math-Ed. 161-a. 3 class meetings; 3 credits.

PHYSICAL EDUCATION (P-E) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL PHYSICAL EDUCATION. Assistant Professor Hoban.

3 class meetings; 3 credits.

ELECTRICAL ENGINEERING

LEON W. HITCHCOCK, *Professor*

FREDERICK D. JACKSON, *Assistant Professor*

WILLIAM B. NULSEN, *Assistant Professor*

1-a, 2-b, 3-c. DYNAMO ELECTRIC MACHINERY. This course includes a general study of electric and magnetic quantities, direct current circuits, magnetic circuits, direct current generators and motors, primary and secondary cells and batteries, electrolysis, electrical measuring instruments, inductance, capacitance, alternating current circuits, power factor, wave form, alternators, armature windings and complex notation. Professor Hitchcock, Assistant Professors Jackson and Nulsen.

Prerequisites: Physics 8-c, Mathematics 9-c, and Electrical Engineering 33-c. Required of Juniors in Electrical Engineering. 3 recitations; 3 credits.

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4-a. ELECTRICAL COMMUNICATION. A general study of the fundamentals of electrical communication systems; telephone, telegraph and radio; the fundamentals of sound, speech and hearing; the principles of radio wave propagation; the characteristics of resonant circuits and a study of the fundamental principles of the vacuum tube. Assistant Professor Jackson.

Prerequisite: Electrical Engineering 3-c, 16-b, 27-c or 36-c. Required of Seniors in Electrical Engineering. 3 recitations or 2 recitations and 1 laboratory; 3 credits.

5-b. ELECTRON TUBES. A study of vacuum tube amplifiers and their application in radio and industry; the principles and applications of gaseous triodes and photo-electric tubes. Assistant Professor Jackson.

Prerequisite: Electrical Engineering 4-a. Elective for Seniors in Electrical Engineering. 3 recitations or 2 recitations and 1 laboratory; 3 credits.

6-c. A STUDY OF TELEPHONE TRANSMISSION. The function and solution of networks; the infinite transmission line; inductive interference; bridge circuits; telephone repeaters; filters; the determination of line and cable characteristics; measurement of transmission losses and gains; gain-frequency measurements; a study of routine repeater tests. Assistant Professor Jackson.

Prerequisite: Electrical Engineering 4-a. Elective for Seniors in Electrical Engineering. 3 recitations; 1 laboratory; 5 credits.

7-a, 8-b, 9-c. ELECTRICAL ENGINEERING PRACTICE. Alternators, transformers, induction motors, regulators, synchronous motors, converters and rectifiers; transmission line regulation, efficiency, insulation, lightning protection, sag and tension, etc. Professor Hitchcock and Assistant Professor Jackson.

Prerequisite: Electrical Engineering 3-c. Required of Seniors in Electrical Engineering. 3 recitations; 3 credits.

11-a, 12-b, 13-c. ELECTRICAL LABORATORY. This course includes the operation and testing of direct and alternating current motors and generators, transformers, rotary converters, rectifiers, etc. A written report on each experiment or test is required. Assistant Professor Nulsen.

ELECTRICAL ENGINEERING

Prerequisite: Electrical Engineering 30-c. 11-a and 12-b required of, and 13-c elective for Seniors in Electrical Engineering. 11-a and 12-b: 2 laboratories; 4 credits. 13-c: 4 laboratories; 4 credits.

14-c. ADVANCED RADIO LABORATORY AND ELECTRON TUBE APPLICATIONS. This course is intended for those Technology Seniors who desire to pursue special radio problems or electron tube applications. Permission to register must be obtained from the department. Assistant Professor Jackson.

Prerequisites: Electrical Engineering 4-a or 5-b. 2 laboratories; 4 credits.

15-a, 16-b. INDUSTRIAL ELECTRICITY. This course consists of a study of the electric circuit; the magnetic circuit; direct current generators and motors; elementary electrochemistry covering storage batteries, refining of metals, and electroplating; inductance; capacitance; the alternating current circuit; alternating current generators, motors, starting devices, controllers, transformers, converters and rectifiers. Assistant Professor Nulsen.

Required of Juniors in Chemistry. 2 recitations; 1 laboratory; 3 credits.

19-a. ILLUMINATION ENGINEERING. A study of the National Electrical Code Rules for electrical wiring and apparatus; arc and incandescent lamps; the principles of photometry and illumination; shades and reflectors; residence, office, store and factory lighting; street lighting; flood lighting; electric signs; illumination calculations; rates, etc. Assistant Professor Nulsen.

Required of Seniors in Electrical Engineering. Elective for students who have completed Electrical Engineering 16-b, 26-b or 35-b. 2 recitations; 2 credits.

21-c. THEORY OF ELECTRICAL CIRCUITS. The application of mathematics to the solution of electrical circuit problems, including the use of differential equations, Heaviside's operators, and symmetrical phase components. The derivation of fundamental formulas and constants. Assistant Professor Nulsen.

Prerequisite: Electrical Engineering 8-b. Required of selected Seniors in Electrical Engineering. 3 recitations; 1 laboratory; 4 credits.

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24-c. TERM PAPER. An investigation of the history and development of electrical theory or equipment, or an original research involving electrical principles and their application. The written paper must conform to the rules of grammar and composition and must be submitted at stated intervals for criticism. Professor Hitchcock.

Required of Seniors in Electrical Engineering. 1 laboratory; 1 credit.

25-a, 26-b, 27-c. ELECTRICAL MACHINERY. A study of the electric circuit; the magnetic circuit; direct current generators and motors; primary cells; storage batteries; inductance; capacitance; the alternating current circuit; alternating current generators, motors, starting devices, controllers, transformers, converters and rectifiers. Assistant Professor Jackson.

Required of Juniors in Mechanical Engineering. 3 recitations; 1 laboratory; 4 credits.

28-a, 29-b, 30-c. ELECTRICAL LABORATORY. The operation and testing of direct current circuits and machinery to supplement the theory covered in Electrical Engineering 1-a, 2-b, 3-c. Assistant Professor Nulsen.

Prerequisite: Electrical Engineering 33-c. Required of Juniors in Electrical Engineering. 1 laboratory; 2 credits.

31-a, 32-b, 33-c. INTRODUCTION TO ELECTRICITY. An elementary study of electrical circuits and machinery consisting of both calculations and experiments. Professor Hitchcock.

Required of Sophomores in Electrical Engineering. 31-a: 1 laboratory; 1 credit. 32-b: 1 recitation; 1 laboratory; 1½ credits. 33-c: 2 recitations; 1 laboratory; 2 credits.

34-a, 35-b, 36-c. ELECTRIC MACHINERY. The electric circuit; the magnetic circuit; direct current generators and motors; primary and secondary cells; inductance; capacitance; the alternating current circuit; alternating current machinery and controlling devices. Assistant Professor Jackson.

ELECTRICAL ENGINEERING

Required of Juniors in Civil Engineering. 2 recitations; 1 laboratory; 3 credits.

37-a, 38-b, 39-c. ELECTRICAL PROBLEMS. The solution of problems involving both direct current and alternating current circuits and machinery. Professor Hitchcock.

Required of Juniors in Electrical Engineering. 2 recitations; 2 credits.

41-a, 42-b, 43-c. STUDENT BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS. A student organization conducted in accordance with the by-laws of the Institute with meetings given a place on the student's class schedule. Each student is required to present and discuss an approved subject. At times the meeting may take the form of a debate, an address by an outside lecturer or a motion picture of an instructive nature. A member of the department will be present at each meeting. Students electing this course must become student members of the A.I.E.E. and must subscribe to a magazine selected by the department.

Required of Juniors in Electrical Engineering. 1 recitation; no credit.

44-a, 45-b, 46-c. STUDENT BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS. Continuation of 43-c. The meetings of the Branch are attended by both Juniors and Seniors. Students electing this course must become student members of the A.I.E.E. and must subscribe to a magazine selected by the department.

Required of Seniors in Electrical Engineering. 1 recitation; no credit.

47-c. PRINCIPLES AND APPLICATIONS OF ELECTRON TUBES. This course is primarily for students other than those registered in the Electrical Engineering curriculum who are interested in electron tubes and their applications. It consists of a study of vacuum tubes, vacuum tube amplifiers, photoelectric tubes and their applications in industry. Assistant Professor Jackson.

Prerequisites: Electrical Engineering 16-b, 26-b or 35-b.
Elective for students not registered in the Electrical Engineering curriculum. 3 recitations; 3 credits.

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100-c. ELECTRIC CIRCUITS. Adapted primarily to students in architecture. A study of types of lighting fixtures, the service for which each is designed and the proper spacing and mounting height; outlets for fixtures, appliances and switches; methods of attaching outlets; circuits; individual and group control; exposed and concealed wiring; entrance and meter location; costs of wiring; the calculation of wire sizes for circuits; a comparison of the three-wire with the two-wire system of distribution; the requirements of the National Board of Fire Underwriters in connection with electrical installations; wiring for and methods of control of radio, refrigeration, oil furnaces, elevator, ventilator, signal, alarm and inter-communicating devices; outside lighting, including electric signs, flood lighting, and the lighting of gardens, drives, swimming pools and fountains; underground wiring; studies of specifications. Professor Hitchcock.

Required of Juniors in Architecture. Elective for Juniors and Seniors in Liberal Arts and Agriculture. It is necessary to limit the number of students electing this course. Approval of the head of the department must be secured. 2 recitations; 1 laboratory; 3 credits.

ENGLISH

ALFRED E. RICHARDS, *Professor*
HAROLD H. SCUDDER, *Professor*
WILLIAM G. HENNESSY, *Associate Professor*
LUCINDA P. SMITH, *Associate Professor*
EDMUND A. CORTEZ, *Assistant Professor*
PAUL S. SCHOEDINGER, *Assistant Professor*
CARROLL S. TOWLE, *Assistant Professor*
ROBERT G. WEBSTER, *Instructor*
THOMAS H. McGRAIL, *Instructor*
DENVER E. BAUGHAN, *Instructor*
LAWRENCE H. HOUTCHENS, *Instructor*
BETHYL C. HENNESSY, *Assistant*
BARBARA ROWELL, *Assistant*

GENERAL REQUIREMENTS

All Freshmen are required to take English 1-a, 2-b, 3-c. However, upon the recommendation of the head of the Department of English, and with the approval of the dean of his college, the exceptional student who demonstrates his ability to proceed to more advanced work may be excused from the regular course and enrolled in a special section for work of higher grade.

DEPARTMENTAL REQUIREMENTS

A major program in English consists of 45 credits in English and closely related subjects (history, languages, philosophy, psychology and education) in which the student must secure a grade of 75 or better in each subject to the total of 36 credits. Every student majoring in English must take the following courses: (1) Survey of English Literature (4-a, 5-b, 6-c), (2) Survey of American Literature (28-a, 29-b, 30-c), (3) Shakespeare's Plays (67-a, 68-b, 69-c), (4) Chaucer (76-a, 77-b, 78-c).

It is recommended that the student select one of the three following curricula for his major program, the choice depending upon the student's educational objective: (1) the *professional* curriculum, which is designed for those who have a pronounced liking for English studies, and who may continue with post-graduate work; (2) the *teacher-training* curriculum, which is designed for those who plan to be teachers of English in secondary schools; (3) the *general* curriculum,

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which is designed for those who wish neither to continue with graduate work nor to teach in secondary schools, but who desire to take English as a major in preference to some other liberal arts subject.

An outline of each of these curricula may be obtained from the head of the Department of English.

COURSES OPEN TO FRESHMEN

1-a, 2-b, 3-c. FRESHMAN COMPOSITION. The aim of this course is to enable the student to write correct English. The principles of exposition, description, and narration are studied. There is drill in the mechanics of composition, and there is constant writing of themes both as outside assignments and as laboratory work in class. Associate Professor Smith, Assistant Professor Cortez, Mr. Webster, Mr. McGrail, Mr. Baughan and Mr. Houtchens.

Required of all Freshmen in the University. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

1-b, 2-c, 3-a. FRESHMAN COMPOSITION. This course is required of students in the College of Technology and of Agriculture who have failed in English 1-a. It repeats the work covered during the preceding term by the regular classes in Freshman Composition. It is not a year-course. Associate Professor Smith.

3 lectures or recitations; 3 credits.

4-a, 5-b, 6-c. SURVEY OF ENGLISH LITERATURE. A general survey of English literature from its beginnings to the year 1900. Lectures and recitations. Assistant Professor Schoedinger.

Required of students majoring in English; elective for all others. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

7-a, 8-b, 9-c. PLAY PRODUCTION. This is not an elective course. It is an advanced laboratory course in the actual staging and presenting of plays by standard authors. Members of the course are chosen by competitive trial test, and credit is given both for acting and for constructive work in the technical phases of production. Associate Professor Hennessy.

1 to 3 credits.

ENGLISH

COURSES OPEN TO SOPHOMORES

25-a, 26-b. **ADVANCED COMPOSITION.** In the fall term, short papers reproducing impressions of daily life; in the winter term, exposition. Weekly individual conferences. Assistant Professor Towle.

Prerequisite: Freshman Composition or its equivalent.
Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

27-a, -c. **NEWS WRITING.** A practical study of the preparation of articles for newspapers and magazines. It is for all whose vocations will demand frequent writing for publication, and it is a preparation in part for those who intend to take up newspaper work after graduation. It does not cover the entire field of journalism, but the student will be instructed in the duties of a reporter and be given constant practice in writing news stories. Professor Scudder.

Elective for Sophomores, Juniors and Seniors who have attained a grade of 75 or higher in English 1-a, 2-b, 3-c.
3 lectures or recitations; 3 credits.

28-a, 29-b, 30-c. **SURVEY OF AMERICAN LITERATURE.** Lectures and extensive outside reading. Professor Scudder.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

131-a, 132-b, 133-c. **ENGLISH LITERATURE IN THE SEVENTEENTH CENTURY.** Poetry and prose from Shakespeare and Bacon to Swift and Pope, omitting the drama and the works of Milton. The poetry of John Donne and his school; of Jonson, Herrick and the "Cavaliers"; of Denham, Waller and Dryden; of the followers of Spenser, etc. The prose of such writers as Izaak Walton, Bunyan, Sir Thomas Browne, Fuller, Taylor, and John Dryden. One hour of the week will be devoted to round-table discussion in small groups. Assistant Professor Towle.

Elective for Sophomores, Juniors, and Seniors. 2 lectures or recitations; 1 laboratory; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.* (Not given in 1935-36.)

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33-a, 34-b. VICTORIAN PROSE. Representative readings in the non-fictional prose by Coleridge, Lamb, Hazlitt, Carlyle, Arnold, Pater and their contemporaries, with particular stress upon their contribution to the thought of their time. Professor Richards.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

35-c. JOHNSON AND HIS CIRCLE. Boswell, Johnson and their time. Professor Scudder.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits. (Not given in 1935-36.)

36-c. POPE AND HIS CONTEMPORARIES. The literature of the first half of the eighteenth century. Assistant Professor Schoedinger.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

37-c. THE BIBLE AS LITERATURE. A study of the various literary types found in the Bible, and a survey of the influence of the Bible on English literature. Professor Richards.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits. (Not given in 1935-36.)

38-c. JOHN RUSKIN. The reading of selected essays by Ruskin which bear upon the literary, artistic and social problems of the present day. Professor Richards.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

39-c. MODERN BRITISH POETRY. A study of British poetry written since 1900. Assistant Professor Towle.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

40-c. MODERN AMERICAN POETRY. A study of American poetry written since 1900. Assistant Professor Towle.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits. (Not given in 1935-36.)

ENGLISH

41-a, 42-b. NON-DRAMATIC ELIZABETHAN POETRY. A study of the English Renaissance in non-dramatic poetry and its development throughout the sixteenth century. The second term is devoted entirely to Spenser's *Færie Queene*. Professor Richards.

Open to Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

43-b, 44-c. VICTORIAN POETRY. A study of English poetry from 1830 to 1900, with special reference to the poetry of Tennyson and Browning. Assistant Professor Schoedinger.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits. (Not given in 1935-36.)

45-a, 46-b. MEDIAEVAL AND ELIZABETHAN DRAMA. A survey of the English drama, exclusive of Shakespeare, from its beginnings to the closing of the theatres. Professor Scudder.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

47-a, -b, -c. PUBLIC SPEAKING. Vocal interpretation of thought; technique of phrasing ideas; intensive practice in the use of time, change in pitch, emphasis, and inflection of the voice; practice in movement and gesture; coördination of the intellectual and emotional elements with reference to utterance; a foundation course for prospective business men, teachers, and candidates for the various professions dependent upon a college training. Assistant Professor Cortez.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

48-c. ADVANCED PUBLIC SPEAKING. Intensive drill and individual practice in the technique and delivery of various types of speeches. By arrangement, students will be given a reasonable amount of individual attention in speech conferences. Students must secure permission of the instructor before enrolling for this course. Assistant Professor Cortez.

Prerequisite: English 47-a,-b-c, or its equivalent. Sections are limited to 16 students. Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

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49-c. ORAL READING. The art of reading from the page; expressive reading of lyrics and other types of literature; platform reading for entertainment and story-telling; stage presence; drill in interpretation in terms of conception of thought; declamation for various programs. Students must secure permission of the instructor before enrolling for this course. Assistant Professor Cortez.

Prerequisite: English 47-a,-b-c, or its equivalent. Limited to 16 students. Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

COURSES OPEN TO JUNIORS

50-a. PRINCIPLES OF ARGUMENTATION. Nature of argumentation and debate; the proposition and its main issues, sources and tests of evidence; briefing, elements of analysis and tests of reasoning; a minute study of the most common fallacies in argumentation; refutation; exhibition debates. Assistant Professor Cortez.

Lectures, discussions, reports. Elective for Juniors and Seniors, and Sophomores by permission. 3 lectures or recitations; 3 credits.

52-b. VARSITY DEBATING. Open to upper classmen only. Admission by try-out. Assistant Professor Cortez.

3 lectures or recitations; 2-6 credits.

53-a. THE SHORT STORY. A study in the technique of writing short stories; criticism of representative short stories; extensive practice in writing. Assistant Professor Towle.

Prerequisite: English 25-a. 3 lectures, recitations, or conferences; 3 credits. Admission by consent of instructor.

154-a, 155-b, 156-c. WRITING AS AN ART. A course in the study and practice of the forms of writing through an examination of the history of literary criticism. The reading of famous critical essays and of many contemporary opinions, correlated with practice writing of various types. Each student is allowed to spend much of his time with the type he finds most congenial. Collateral readings, with frequent class discussions and conferences. Assistant Professor Towle.

ENGLISH

Prerequisite: English 25-a, 26-b, and consent of instructor. Elective for Juniors, Seniors, graduate students. 3 lectures or recitations, and conferences; 3 credits.

54-a, 55-b, 56-c. **ADVANCED AMERICAN LITERATURE.** A series of studies in special fields, the subjects to be announced. For 1935-36 the subjects are: American Fiction prior to 1860, The New England Renaissance, The American Short Story. Professor Scudder.

Elective for Juniors, Seniors and graduate students. 3 lectures or recitations; 3 credits.

159-a, 160-b, 161-c. **THE ENGLISH ROMANTIC WRITERS.** A course dealing with the major writers of the early nineteenth century, such as Wordsworth, Coleridge, Byron, Lamb, Shelley, Hazlitt and Keats. Readings also from the work of many minor writers, especially in the late eighteenth century. One hour of the week will be devoted to round-table discussion with small groups. Assistant Professor Towle.

Elective for Juniors, Seniors, and graduate students. 2 lectures; 1 recitation; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

59-a, 60-b. **THE ENGLISH NOVEL IN THE EIGHTEENTH CENTURY.** The novel from Defoe through the Gothic Romance. There will be lectures and constant outside reading. Assistant Professor Schoedinger.

Elective for Juniors and Seniors and graduate students. 3 lectures or recitations; 3 credits.

61-a, 62-b. **MILTON.** A detailed study of Milton's minor poetry and *Paradise Lost*. Consideration is also given to the social, political and religious history of Milton's day as reflected in his life and poetry. Professor Scudder.

Elective for Juniors, Seniors and graduate students. 3 lectures or recitations; 3 credits.

63-a, 64-b. **THE ENGLISH NOVEL IN THE NINETEENTH CENTURY.** A study of the novel from Jane Austen to Thomas Hardy. There will be lectures, recitations, and constant reading. Professor Scudder.

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Elective for Juniors, Seniors and graduate students. 3 lectures or recitations; 3 credits. (Not given in 1935-36.)

67-a, 68-b, 69-c. SHAKESPEARE'S PLAYS. A critical study of the major histories, comedies, and tragedies. Shakespeare as poet and as dramatist. Associate Professor Hennessy.

Elective for Juniors, Seniors and graduate students. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

170-a. DRAMATIC INTERPRETATION. An elementary course in the fundamentals of acting and play producing. A laboratory course in which theory is taught through constant practice drill. Designed particularly for prospective teachers of English. Associate Professor Hennessy.

Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

70-a, 71-b, 72-c. INTRODUCTION TO DRAMA. A comprehensive survey of the field of drama, beginning with the drama of Greece and ending with that of Ibsen. Theories, types and developments. Associate Professor Hennessy.

Elective for Juniors, Seniors and graduate students. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

73-a, 74-b, 75-c. APPRECIATION OF ART. The nature of art and the ideals of beauty of art in architecture, sculpture, and painting, as illustrated by representative masterpieces from the Greek, Roman, Gothic, Renaissance, and modern periods. Lectures, assigned readings, and the study of art prints. Associate Professor Hennessy.

Elective for Juniors and Seniors with the consent of the instructor. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

COURSES OPEN TO SENIORS

76-a, 77-b, 78-c. CHAUCER. A study of Chaucer's life and times, and a reading of most of his poetry. Particular attention will be paid

ENGLISH

during the first half year to the elements of Old and Middle English grammar and vocabulary, and to a reading of the minor poems of Chaucer. In the second half year, the *Canterbury Tales* will be studied. Professor Richards.

Elective for Seniors and graduate students (and Juniors by special permission). 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

ENGLISH-EDUCATION (ENG-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL ENGLISH. This course deals specifically with the selection and organization of subject matter, with the most efficient methods of presenting this material, and with the problems which arise within the wide field of the teaching of High School English. Associate Professor Smith.

Prerequisite: Three years of English courses. Required of English majors who plan to teach English in secondary schools. Elective for majors in language, history or education. 2 lectures; 1 laboratory; 3 credits. (Formerly given as 79-a.)

ENGLISH-EDUCATION (ENG-ED.) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL ENGLISH. The continuation of 161-a. Associate Professor Smith.

Prerequisite: English 161-a. 3 credits. (Formerly given as 80-c.)

SERVICE COURSE

101-a,-b. EXPOSITORY WRITING. Practice in the writing of reports and other papers pertaining to technical subjects. The reports will take the form of recommendation reports, progress reports, and information reports. Other papers will take the form of term papers or short theses. In addition to these, there will be required the writing of business letters of various types, such as letters of application, of complaint, and of sales. Mr. Webster.

101-a is required of Seniors in Agriculture, in Civil Engineering, and in Mechanical Engineering; 101-b is required of Seniors in Electrical Engineering. 2 recitations; 2 credits.

UNIVERSITY OF NEW HAMPSHIRE

ENTOMOLOGY

WALTER C. O'KANE, *Professor*

JAMES G. CONKLIN, *Instructor*

NOTE.—Work in the Department of Entomology is largely individualized. So far as possible each student is permitted to choose the topics to which he will give special attention. This applies to each course offered by the department. Laboratory work may be done at any time that the laboratory is open. Reference books are issued from the department library at any time. Lecture periods are occupied largely with discussion, in which students participate.

PROFESSIONAL TRAINING.—The Department of Entomology is prepared to offer professional training in Entomology. For adequate training a broad foundation as well as thorough specialization is necessary. To accomplish this the period of training should extend beyond the regular four years of undergraduate college work. Students who desire to specialize in Entomology are requested to consult the head of the department in order to plan an adequate and comprehensive sequence of studies.

1-a. PRINCIPLES OF ECONOMIC ENTOMOLOGY. The relation of the structure and classification of insects to methods of insect control. The preparation and application of insecticides. Spray machinery and appliances. Professor O'Kane and Mr. Conklin.

Recommended elective for Freshmen in Agriculture. 3 lectures; 1 laboratory; 4 credits.

2-b. INSECTS OF ORCHARD AND GARDEN. The application of methods of insect control to typical injurious species. Studies in the life histories and habits of important insect pests of orchard, garden and certain field crops. Adapted especially for students in Horticulture and in General Agriculture. Professor O'Kane.

Prerequisite: Entomology 1-a. Elective for Sophomores, Juniors and Seniors. 2 lectures; 1 laboratory; 3 credits. (Given in alternate years beginning with 1935-36.)

3-a. INSECTS OF DOMESTIC ANIMALS. The insect enemies of domestic livestock; the life histories, habits and means of control. Adapted especially for students in Animal Husbandry. Professor O'Kane.

ENTOMOLOGY

Prerequisite: Entomology 1-a. Elective for Sophomores, Juniors and Seniors. 2 lectures; 1 laboratory; 3 credits. (Given in alternate years beginning with 1936-37.)

4-c. HOUSEHOLD INSECTS. MEDICAL ENTOMOLOGY. The life histories, habits and means of control of insects of the household and of stored products. The relation of insects to disease. Adapted especially for students in Home Economics. Professor O'Kane.

Required of Seniors in Institutional Management. Elective for Sophomores, Juniors and Seniors. 2 lectures; 1 laboratory; 3 credits.

5-a, 6-b, 7-c. ADVANCED ECONOMIC ENTOMOLOGY. Detailed studies of problems involved in applied entomology. The literature of economic entomology. Investigational methods. Practice in arranging projects. Original investigations in the life history and habits of one or more injurious species. Adapted for advanced students. Professor O'Kane and Mr. Conklin.

Required of students specializing in Entomology. Open to students only by permission of head of department. Hours and credits to be arranged.

8-a, 9-b, 10-c. ADVANCED ECONOMIC ENTOMOLOGY. Continuation of Entomology 5-a, 6-b, 7-c, for students who are specializing in the subject. Professor O'Kane and Mr. Conklin.

Open to students only by permission of head of department. Required of students specializing in Entomology. Hours and credits to be arranged.

13-c. FOREST INSECTS. Studies in the life histories and habits of the more destructive forest insects and the means of their control. Especially adapted for students in Forestry. Professor O'Kane.

Prerequisite: Entomology 1-a. Recommended for Juniors in Forestry. Elective for others. 2 lectures; 1 laboratory; 3 credits.

For courses primarily for graduate students see Catalog of the Graduate School.

UNIVERSITY OF NEW HAMPSHIRE

FORESTRY

KARL W. WOODWARD, *Professor*

CLARK L. STEVENS, *Assistant Professor*

1-c. PRINCIPLES OF FORESTRY. This course is intended to meet the needs of students who desire to obtain a general knowledge of the principles of forestry. The value of forests, their protection, their utilization, their improvement and regeneration, are discussed with special reference to New Hampshire conditions. Professor Woodward.

Recommended elective for Freshmen in Agriculture except Forestry. 3 lectures; 1 laboratory; 4 credits.

2-c. PRINCIPLES OF FORESTRY. The same as Forestry 1-c, except that no laboratory work is included. Professor Woodward.

Elective for any student. 3 lectures; 3 credits.

3-a. DENDROLOGY. This course deals with the characteristics of our native tree species, and with the identification of trees in the field and from specimens. Additional practice in identifying northern species is given during Summer Camp. Assistant Professor Stevens.

Recommended elective for Freshmen in Forestry. Elective for others. 2 lectures; 1 laboratory; 3 credits.

4-b. WOOD IDENTIFICATION. A study of the uses of lumber, the physical properties and the identification of the commercially important woods. Each student is required to provide himself with a hand lens. Assistant Professor Stevens.

Recommended elective for Freshmen in Forestry. Elective for others. 2 lectures; 1 laboratory; 3 credits.

5-c. FOREST IMPROVEMENTS. Lectures on the methods of construction and the costs of the more important structures listed as improvements of the forest. Includes roads, trails, simple bridges, logging railroads, telephone lines, flumes, slides, ranger cabins, lookout stations, etc. Assistant Professor Stevens.

Recommended elective for Freshmen in Forestry. Elective for others, with approval of the instructor. 2 lectures; 1 laboratory; 3 credits.

6-a, 7-b, 8-c. FOREST MENSURATION. Includes practice in forest mapping; measurement of forest products; timber cruising; and studies of growth and yield of the commercial tree species of New

FORESTRY

England. The course is continued during Summer Camp. Each student is required to provide himself with a box compass. Assistant Professor Stevens.

Required of Sophomores or Juniors in Forestry. Elective for others, with approval of the instructor. Prerequisite: Forestry 3-a. 2 lectures; 1 laboratory; 3 credits. (Given in alternate years, commencing with 1935-36.)

9-a, 10-b, 11-c. SILVICULTURE. The art of producing and tending a forest. Includes seed collection, storage and testing; nursery practice; forest plantations; systems of natural regeneration; intermediate cuttings; forest protection; and discussion of silvicultural practice in the most important forest regions of the United States. Assistant Professor Stevens.

Required of Sophomores or Juniors in Forestry. Elective for others, with approval of the instructor. 2 lectures; 2 laboratories; 4 credits. (Given in alternate years, commencing with 1936-37.)

13-b, 14-c. FOREST UTILIZATION. Methods and costs of logging and milling in the chief lumber-producing regions of the United States; various types of forest products, their manufacture and marketing together with special problems of the lumber business. Emphasis is placed upon New England conditions. Attendance on instruction trips is required for credit in this course. Assistant Professor Stevens.

Required of certain Juniors in Forestry. Elective for others. 3 lectures; 3 credits.

15-b, 16-c, 17-a. THESIS. Work to be arranged according to the needs of individual students. Professor Woodward and Assistant Professor Stevens.

Prerequisites: Forestry 3-a, 11-c and 8-c. Required of certain Juniors and Seniors in Forestry. 2 lectures; 2 laboratories; 3 to 5 credits.

18-b, 19-c. HISTORY OF FORESTRY. The history of forestry, its development and present status in different countries; the work of the Federal Government and its management of the national forests; state forest policies; the lumber industry in the United States. Lectures and special readings. Professor Woodward.

Required of certain Seniors in Forestry. 3 lectures; 3 credits.

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20-a, 21-b. NATIONAL FOREST ADMINISTRATION. The principles and methods employed on the national forests. Professor Woodward.

Prerequisites: Forestry 3-a, 11-c and 8-c. Required of certain Seniors. 3 lectures; 3 credits.

22-a, 23-b, 24-c. FOREST MANAGEMENT. The management of woodlots and large forest tracts for the purpose of gaining the largest immediate and future returns; and the preparation of working plans to coördinate the lumbering, protection, improvement, and regeneration of forests so as to make them yield the highest net returns. Professor Woodward.

Prerequisites: Forestry 3-a, 11-c, 8-c, 13-b, 14-c. Required of Seniors in Forestry. 2 lectures; 1 laboratory; 3 credits.

25-s. SUMMER CAMP. An eight weeks' course at the Swift River Camp, Passaconaway, N. H. Lectures and field work on the following projects: a forest survey of a large area of the White Mountain National Forest; silvical studies of the northern forest types; fish and game in the national forests; dendrology. There is opportunity for instruction by officers of the U. S. Forest Service, and from three to six days are spent under their supervision on such work as fighting forest fires, building trails, telephone lines, etc. Each student is required to act as cook for a part of the course, and the details of running the camp and directing the survey are handled by the students as part of the instruction. Assistant Professor Stevens.

Required of Juniors in Forestry. Prerequisites: Forestry 5-c, 8-c, Home Economics 65-c. 3 lectures; office and field work; 12 credits. (Given in alternate years, beginning in 1936.)

26.5-a. FISH AND GAME MANAGEMENT. This is an introductory course designed to acquaint the student with the fundamental principles underlying the handling of wild life as a forest crop. Laboratory work consists of instruction trips to game farms, fish hatcheries, and the White Mountain National Forest. Attendance on these is required for credit in the course. Additional field work will be carried out during Summer Camp. Assistant Professor Stevens.

Required of certain Juniors in Forestry. Elective for others with approval of the instructor. 3 lectures; 3 credits.

GEOLOGY

GEORGE W. WHITE, *Associate Professor*

THEODORE RALPH MEYERS, *Assistant Professor*

DONALD H. CHAPMAN, *Instructor*

1-a, 2-b, 3-c. PRINCIPLES OF GEOLOGY. A course designed to aid the student in interpreting the origin and history of the more common earth features. The work of the atmosphere, streams, seas, glaciers, earthquakes, volcanoes, and mountain-building forces in forming and modifying earth features is studied. Emphasis is placed on the recognition and interpretation of the surface forms and rock structures that are commonly found in New England. Laboratory work consists of field trips to study nearby points of geologic interest; of the study of land forms and structures by means of maps; of a study of the common rocks and minerals, especially those of New Hampshire; and of a study of a few important fossils. Associate Professor White, Assistant Professor Meyers, and Mr. Chapman.

Freshman course. 3 lectures or recitations; 1 laboratory; 4 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

10-a, 11-b, 12-c. GEOGRAPHY. A course which surveys the field of geography, with special emphasis on physical features and their formation. In the first term, the surface features of the lands, their formation and modification will be studied. In the second term, the ocean and the atmosphere (weather and climates of the world) will be taken up. In the third term, the geography of the continents will be studied, with special emphasis given to North America and particularly to the United States. Mr. Chapman.

Freshman course. *This course cannot be used to fill group requirements.* Students may take 11-b, or 12-c without the preceding work only by special permission. 3 lectures or recitations; 3 credits.

25-a, 26-b, 27-c. STRUCTURAL AND DYNAMIC GEOLOGY. A detailed study of geologic structures produced by waves and currents, glaciers, movements of the earth's crust, and by igneous activity. Hypotheses of the origin of the earth and of continents and oceans are taken up. Field trips to the White Mountains, the Atlantic coast, and to the igneous and metamorphic rock areas of the southeastern part of the state are used to illustrate structures and principles studied in the classroom. Associate Professor White and Mr. Chapman.

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Prerequisite: One course in Geology. Sophomore course. 3 lectures or recitations; 1 laboratory; 4 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

50-a, 51-b, 52-c. MINERALOGY. A study of the minerals that make up the earth's crust. The first term will be devoted to a study of crystals, by means of models and specimens showing well defined crystals. The second term will be given to a study of minerals and their determination by means of physical characteristics. The third term will continue the work of the second term and will take up in addition the aggregation of minerals to form rocks. Associate Professor White.

Prerequisite: One course in Geology and one course in Chemistry. Junior course. 2 lectures or recitations; 1 laboratory; 3 credits.

75-a, 76-b, 77-c. ECONOMIC GEOLOGY. A discussion of the metals, their ores, and their occurrence; the types of coal and their occurrence in the coal fields of the United States; petroleum, the structures in which it is found, and the distribution of the oil fields, especially those of the United States. Lime, cement, building stones and related products will be treated briefly. Assistant Professor Meyers.

Prerequisite: One course in Geology. Junior or Senior course. 3 lectures or recitations; 3 credits. (Given in alternate years; not offered in 1935-36.)

78-a, 79-b, 80-c. PALEONTOLOGY. A study of the history, development, and morphology of the various groups of plants and animals as recorded by fossils found in the rocks of the earth's crust. More attention will be given to the development of animals than to plants. Assistant Professor Meyers.

Prerequisites: One course in Geology or one course in Zoölogy. Junior or Senior course. 2 lectures or recitations; 1 laboratory; 3 credits. (Given in alternate years; offered in 1935-36.)

81-a, 82-b, 83-c. GEOLOGICAL PROBLEMS. A study of special problems by means of conferences, assigned readings and field work. The work will be fitted to the needs of the individual students. Associate Professor White, Assistant Professor Meyers, and Mr. Chapman.

Prerequisite: Permission of the instructor. Credits to be arranged.

HISTORY

SERVICE COURSES

100-a. BUILDING STONES AND CLAY PRODUCTS. A study of the origin and occurrence of the various types of building stones. A consideration of clays, and the heavy-wares of constructional importance manufactured from them. Assistant Professor Meyers.

Required of Sophomores in Architecture. 1 lecture or recitation; 1 laboratory; 2 credits.

101-b, -c. GENERAL GEOLOGY. A general introductory course in physical geology, in which the structures and materials of the earth's crust are discussed, together with the forces which have produced and altered them. Assistant Professor Meyers.

Required of Freshmen in Chemistry, and Juniors in Civil Engineering. Elective for students in Agriculture. Open to Liberal Arts students by permission only. 3 lectures or recitations; 3 credits.

HISTORY

DONALD C. BABCOCK, *Professor*
ARTHUR W. JONES, *Assistant Professor*
ALLAN B. PARTRIDGE, *Assistant Professor*
PHILIP M. MARSTON, *Assistant Professor*
GIBSON R. JOHNSON, *Assistant Professor*
WILLIAM YALE, *Assistant Professor*
EDNA DICKEY, *Assistant*

A. MONROE STOWE, *Professor (History-Education)*

In the courses in History an important place is given to historical reading carried on in the reference room. In some cases a considerable part of the work is written.

The statements as to prerequisites, etc., below are for Liberal Arts students. Agriculture and Technology students should consult the head of the department.

Any department in the College of Liberal Arts, except Geology, Home Economics, Physical Education for Women, and Zoölogy, may be considered as a related department.

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COURSES FOR FRESHMEN

The following subject constitutes a basic course, required of students majoring in History, and recommended for all students before taking other courses in history or the social sciences. The aim throughout is orientation, the acquiring of a point of view and a proper feeling for the social evolution of the race, and a knowledge of the background of contemporary life.

1-a, 2-b, 3-c. INTRODUCTION TO CONTEMPORARY CIVILIZATION. This course is designed to give the student a background which will enable him to understand the problems of human society rather than the study of specific historic events. It therefore takes up prehistoric as well as historic social evolution. It aims at the historic explanation of how modern life has come to be what it is, and at an appreciation of the problems of contemporary society. Professor Babcock, Assistant Professor Marston, Assistant Professor Johnson, Assistant Professor Yale.

Elective for Freshmen. Required of students majoring in History. 4 lectures or recitations; 4 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

COURSES FOR UPPERCLASSMEN

GROUP I

25-a, 26-b, 27-c. THE UNITED STATES SINCE 1789. Beginning with the administration of Washington, the great forces of nationalism, expansion, sectionalism, and democracy are traced up to the present time, with reference to as many aspects of our national life as possible, including literary, artistic, scientific, and everyday life-ways, as well as the more usual political and economic events. Professor Babcock.

Elective for Sophomores, Juniors and Seniors. 4 lectures or recitations; 4 credits. *This is a year course when required of or elected by students in the College of Liberal Arts.*

50-a, 51-b, 52-c. COLONIAL AND REVOLUTIONARY AMERICAN HISTORY. A study of colonial beginnings in America, national rivalries, the English colonies, the Revolution, and our national life to 1789. Assistant Professor Marston.

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Elective for Juniors and Seniors, and for Sophomores who have had or are taking 25-a, 26-b, or 27-c. 3 lectures or recitations; 3 credits.

56-a, 57-b, 58-c. **LATIN-AMERICAN HISTORY.** A survey of Spanish and Portuguese history as a background, the Spanish and Portuguese colonial epoch, the separation from Europe, the national characters and resources of the Latin-American states, and their relations with our country and Europe. Assistant Professor Partridge.

Elective for Juniors and Seniors, and for Sophomores by permission. 3 lectures or recitations; 3 credits.

GROUP II

28-a. **THE ANCIENT ORIENT.** The story of the first civilization and the cultural accumulations of ancient times previous to Grecian civilization. Assistant Professor Partridge.

Elective for Sophomores, Juniors and Seniors. 3 lectures or recitations; 3 credits.

29-b, 30-c. **HISTORY OF GREECE.** The aim is to bring home to the student the richness of content of Grecian civilization, and its cultural value for the modern world. Assistant Professor Partridge.

Elective for Sophomores, Juniors and Seniors. 3 lectures or recitations; 3 credits. *History 28-a, 29-b, 30-c will constitute a year course when required of or elected by students in the College of Liberal Arts.*

31-a, 32-b, 33-c. **HISTORY OF ROME.** The year's work carries the story of Rome from its legendary origins and pre-literary foundations to the death of Justinian in 565. Assistant Professor Partridge.

Elective for Sophomores, Juniors and Seniors. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts. (Not offered in 1935-36.)*

59-a, 60-b, 61-c. **MEDIEVAL HISTORY.** This survey of the pageant of the Middle Ages is divided by terms as follows: 59-a, from 565 to 962; 60-b, from 962 to 1190; 61-c, from 1190 to 1320. Assistant Professor Jones.

Elective for Juniors and Seniors, and for Sophomores by permission. 3 lectures or recitations; 3 credits.

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62-a, 63-b, 64-c. THE PERIOD OF THE RENAISSANCE. The Renaissance as a regathering of past values and as a forward movement introducing the Modern Period. Assistant Professor Jones.

Elective for Juniors and Seniors, and for Sophomores by permission. 3 lectures or recitations; 3 credits. (Not offered in 1935-36.)

65-a, 66-b, 67-c. MODERN EUROPEAN HISTORY. From about 1500 to 1914, this course takes up the history of the modern European states and of Europe as a whole in its expansive development and world leadership from about 1500 to 1914. Eastern Europe and Asia and Africa are studied as backgrounds for the colonial history of modern times. Assistant Professor Jones.

Elective for all students. 3 lectures or recitations; 3 credits.

68-a, 69-b, 70-c. HISTORY OF ENGLAND. A general survey of the history of the British Isles from the time of their discovery to contemporary developments. Emphasis in the first term is upon Anglo-Saxon, Norman, and the pre-Tudor period. In the next term the Elizabethan Age is stressed, and the reign of Queen Anne. In the Spring the remaining history is covered with an analysis of the present situation. Assistant Professor Partridge.

Elective for Juniors and Seniors, and for Sophomores by permission. 3 lectures or recitations; 3 credits.

78-a, 79-b, 80-c. RECENT WORLD HISTORY. A study of the World War, its roots, its progress, and its outcome, and of post-war problems and world developments. Assistant Professor Yale.

Elective for Juniors and Seniors by permission of the instructor. 3 lectures or discussions; 3 credits.

81-a, 82-b, 83-c. HISTORY OF THE CHRISTIAN CHURCH AND RELIGION. Centering around some of the great personalities in Christian history or other socio-religious movements within the church, this course aims to show the social function and historic worth of Christian institutions. Attention is given to the Bible as an intellectual and spiritual heritage.

Open to Sophomores, Juniors and Seniors. 3 lectures or discussions; 3 credits.

HISTORY

84-a, 85-b, 86-c. HISTORY OF RELIGIONS. A study of religion as an historic force in society, and of the forms of religion throughout history. The nature of religion, its origins, and its early development are treated in connection with primitive social history. The principal religions of the world are discussed, excluding Christianity except for purposes of comparison.

Open to Sophomores, Juniors, and Seniors. 3 lectures or discussions; 3 credits. Professor Babcock.

87-a, 88-b, 89-c. THE INTERPRETATION OF HISTORY. An investigation of some of the ways in which thoughtful persons have viewed the historic process as a whole. The aim is the interpretation of life; the method is to combine philosophy, sociology, and history, with emphasis on the latter. Professor Babcock.

Elective for Juniors and Seniors on consultation with the instructor. Juniors and Seniors majoring in the department are expected to take this course. 4 lectures or discussions; 4 credits. (Not offered in 1935-36.)

90-a, 91-b, 92-c. HISTORIOGRAPHY. A study of the lives and writings of some of the leading historians from earliest times to the present, with the aim of combining the cultural and literary value of great writings with the historical knowledge gained from standard sources. Assistant Professor Partridge.

Elective for Juniors and Seniors. Juniors and Seniors majoring in the department are expected to take this course. 3 lectures or recitations; 3 credits.

HISTORY-EDUCATION (HIST-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL HISTORY. This course includes a study of the purposes and objectives of teaching high school history, of the selection and organization of teaching material, and of teaching and testing techniques which may be advantageously used in teaching high school history. The course will include experiments in studying and teaching recent American history. Professor Stowe.

Open to students who have satisfactorily completed History 25-a, 26-b, 27-c, Political Science 25-a, 26-b, 27-c, Economics 1-a, 2-b, 3-c or 6-a, 7-b, 8-c, and Education 40-c or 141-a, 142-b. 3 class meetings; 3 credits. (A substitute for part of Education 40.4)

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HISTORY-EDUCATION (HIST-ED) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL HISTORY. The course is devoted to a study of the problems of improving high school teaching of history. Each student will select units of history which he will study and reorganize from the point of view of meeting the individual and social needs of high school students. Professor Stowe.

Open to students who have satisfactorily completed History-Education 161-a or its equivalent and have had experience in the teaching of high school history. 3 class meetings; 3 credits. (A substitute for part of Education 40.4.)

HOME ECONOMICS

HELEN F. McLAUGHLIN, *Professor*
IRMA G. BOWEN, *Assistant Professor*
HELEN W. LEIGHTON, *Instructor*
MARION STOLWORTHY, *Instructor*
DOROTHY V. MUMMERY, *Instructor*
RUBY SIMPSON, *Instructor*
ELIZABETH FERNALD, *Assistant*

CLOTHING AND TEXTILES

1-a. TEXTILES. A study of textile materials from the viewpoint of the consumer. Assistant Professor Bowen.

Required of Home Economics Teacher Training and Extension Training Seniors. Elective for other students. 2 lectures or recitations; 2 credits.

12-b. HISTORY OF COSTUME. A survey of the changes that have taken place in the development of costume with consideration of the historical and social periods that have been contributing factors. Assistant Professor Bowen.

Elective for all students. 3 lectures or recitations; 3 credits.

16-a, -b, -c. WEAVING. Making of hand-woven rugs and plain or patterned articles. Assistant Professor Bowen.

Elective for all students. Laboratory by arrangement with instructor. Class limited to 10 each term. 1-2 credits.

HOME ECONOMICS

20-a, 21-b, 22-c. CLOTHING SELECTION. Problems in the selection of suitable and becoming clothing. Assistant Professor Bowen.

Required of Home Economics Freshmen. Elective for other students. 3 lectures or recitations; 3 credits. *This is a year-course when required or elected by students in the College of Liberal Arts.*

25-b, 26-c. CLOTHING CONSTRUCTION. Development of technique in garment construction; knowledge of pattern making; application of design; present day millinery. Assistant Professor Bowen and Miss Simpson.

Required of all Home Economics Sophomores. 2 laboratories; 2 credits.

27-a. ADVANCED CLOTHING. Advanced projects in clothing construction. Assistant Professor Bowen and Miss Simpson.

Required of Teacher Training and Extension Seniors. Elective for others. 2 laboratories; 2 credits.

30-a, 31-b, 32-c. APPLIED DESIGN. The basic principles of design and color applied to simple home handcrafts. Students retaining finished products pay for the cost of materials used. Although a year's course, the work is individual in character and a student may enter at the beginning of any term. Assistant Professor Bowen.

2 laboratories; 2 credits. (Formerly given as 26-a, 27-b, 28-c.)

FOOD AND NUTRITION

52-a, 53-b, 54-c. FOODS AND COOKERY. A study of the nutritive value of foods and their healthful and economical preservation, preparation and serving. Mrs. Stolworthy.

Required of Home Economics Sophomores. 2 lectures; 2 laboratories; 3 credits.

58-b. ADVANCED COOKERY. A study of advanced problems in cookery. Mrs. Stolworthy.

Elective for Home Economics Juniors and Seniors. 1 lecture; 1 laboratory; 2 credits.

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60-c. DIETETICS. Application of the principles of human nutrition to varying physiological, social and economic conditions. Professor McLaughlin.

Required of Home Economics Juniors. 2 lectures or recitations; 1 laboratory; 3 credits.

61-c. NUTRITION. A reading course in current literature of nutrition. Professor McLaughlin.

Required of Institutional Management Seniors. Elective for other Junior or Senior Home Economics students. 1 conference; 2 credits.

ELECTIVES OPEN TO OTHER THAN HOME ECONOMICS MAJORS

64-a, -b, -c. FOOD SELECTION. A study of the principles of human nutrition. Professor McLaughlin.

2 lectures; 2 credits.

65-c. CAMP COOKERY. A study of the principles of cookery as especially adapted to camp life. Professor McLaughlin.

Elective for Forestry students. 1 lecture or recitation; 1 laboratory; 1 credit. Class limited to 20. (Given in alternate years; given in 1935-36.)

66-c. ELEMENTARY MEAL PREPARATION. Each laboratory consists of the preparation and serving of a simple meal, suitable for luncheon or dinner. Mrs. Stolworthy.

Elective for Liberal Arts women who have not taken Home Economics 69-c. 1 lecture or recitation; 1 laboratory; 1 credit.

THE FAMILY

71-a, or -b or -c. CHILD DEVELOPMENT. A study of the development of the young child, his environment, and methods of child guidance. Miss Mummery.

Prerequisite: Education 121-a, 122-b, 123-c. Required of Home Economics majors. Elective for other students. 2 lectures or discussions, laboratory work with children at the Nursery School, and reference reading; 4 credits.

HOME ECONOMICS

71.6-b, 71.7-c. **PROJECTS IN CHILD DEVELOPMENT.** A study of the problems which arise in the guidance of young children. Class discussions will be based on the special interests of the students enrolled. Miss Mummery.

Prerequisite: Home Economics 71-a, -b or -c. 1 lecture or discussion; laboratory in the Nursery School; reading; 2-4 credits.

71.8-a, -b or -c. **ADVANCED PROJECTS IN CHILD DEVELOPMENT.** This course provides opportunity for the working out by the student of some individual project. Opportunity will be given to visit child-caring institutions. Miss Mummery.

Prerequisite: Home Economics 71.7-c. 1 conference; laboratory in the Nursery School or in homes; reading; 2-3-4 credits.

72-a, -c. **THE FAMILY AND THE CHILD.** Consideration of the effects of changing society upon home and family life. Professor McLaughlin.

72-a required of Home Economics Extension Training majors; 72-c required of Teacher Training and Institutional Management Seniors. Elective for Liberal Arts Juniors and Seniors. 3 lectures or recitations; 3 credits.

HOME MANAGEMENT

82-a, -b, -c. **HOME MANAGEMENT.** A study of the organization of the household as a home, and of the principles involved in its management. Miss Simpson.

Required of Home Economics Sophomores. Elective for other students. 3 lectures; 3 credits.

84-a, 85-b, 86-c. **HOME BUILDING AND FURNISHING.** The evolution of American housing from the time of the early settlers to the present. Study and discussion of problems pertaining to the selection of a site, the planning, interior decoration and furnishing of a modern home.

Required of Home Economics Juniors. Elective for other students. 3 lectures or recitations; 3 credits.

88-a, -b, -c. **HOME MANAGEMENT HOUSE.** Practice in home-making; managerial and dietetic problems through 8-10 weeks' residence in the Home Management House. Miss Simpson.

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Prerequisites for Home Economics majors: Home Economics 54-c, 60-c and 82-c. Class limited to 8 each term. 88-a, -b -c required of all Home Economics Seniors. Elective for other women students without prerequisites by permission of the head of the department. First places will be given to Home Economics majors. Conference and laboratory; 4 credits. For students who elect course: Conference and laboratory; 3-4 credits.

INSTITUTIONAL MANAGEMENT

91-a, 92-b. INSTITUTIONAL MANAGEMENT. A study of the organization, equipment, and management of typical institutions and of the buying, planning, preparing, and serving of meals for large groups. Field trips to study equipment and management of institutions of different types are included in the course. Mrs. Leighton.

Required of Seniors in Institutional Management Curriculum. 2 lectures or recitations; 2 credits.

94-a, 95-b. INSTITUTIONAL PRACTICE. Practical experience of different types in the kitchens and serving rooms of the University Commons. Mrs. Leighton.

Required of Seniors in Institutional Management Curriculum. 5 laboratories; 2 credits.

HOME ECONOMICS EDUCATION

100-a, 101-b, 102-c. SURVEY OF HOME ECONOMICS. A survey of the Home Economics field, its relation to the education of women, and its vocational opportunities.

Required of Home Economics Freshmen. Elective for other students. 1 lecture or recitation; 1 credit.

103-a, 104-b, 105-c. PROJECT IN HOME ECONOMICS. This course provides opportunity for the working out by the student of some project in home economics that supplements the work in the required courses. Home Economics staff.

Elective for Home Economics Juniors and Seniors. Conference and assignments; 1-3 credits.

110-a, 111-b, 112-c. HOMEMAKING. A brief study of the different phases of homemaking. Professor McLaughlin and other staff members.

HORTICULTURE

Elective for students not majoring in Home Economics.
3 lectures or demonstrations; 3 credits.

HOME ECONOMICS-EDUCATION (HE-Ed) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL HOME ECONOMICS. Professor McLaughlin and other staff members.

Required of Seniors in Home Economics Teacher Training and Extension Curricula. 3 lectures or recitations; 3 credits.

HOME ECONOMICS-EDUCATION (HE-Ed) 163-b. SUPERVISED TEACHING IN HIGH SCHOOL HOME ECONOMICS. Professor McLaughlin.

Required of Seniors in Home Economics Teacher Training Curriculum. Nine weeks or more practice teaching; 16 credits.

HOME ECONOMICS-EDUCATION (HE-Ed) 165-c. SEMINAR IN THE TEACHING OF HIGH SCHOOL HOME ECONOMICS. Professor McLaughlin and other members.

Required of Seniors in Home Economics Teacher Training Curriculum. 3 lectures or recitations; 3 credits.

109-a, -b, -c. DEMONSTRATION COURSE. The organization and practical application of demonstration methods in the field of Home Economics. Home Economics Staff.

Elective for Junior and Senior Home Economics Majors. 2 lectures or recitations; 1 credit.

HORTICULTURE

GEORGE F. POTTER, *Professor*

J. RAYMOND HEPLER, *Associate Professor*

L. PHELPS LATIMER, *Assistant Professor*

JAMES MACFARLANE, *Instructor*

HENRY S. CLAPP, *Instructor*

1-c. VEGETABLE GARDENING. A study of garden soils, testing and planting of seeds, selection of varieties with reference to New Hampshire conditions, construction and management of hotbeds and cold frames, and the fertilization, cultivation and irrigation of the garden. Associate Professor Hepler.

Recommended elective for Freshmen in Agriculture. 2 lectures; 1 laboratory; 3 credits.

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2-a. FLORICULTURE: GREENHOUSE CONSTRUCTION AND MANAGEMENT. This course treats of modern methods of greenhouse work and the more important plants grown under glass. Varieties, culture, marketing, and enemies of greenhouse plants are studied. Each student is required to do practical work in propagating, potting, watering plants and ventilating greenhouses. A study is made of the history and development of different types of greenhouses, including methods of heating and general management. Mr. Macfarlane.

Elective for any student. 2 lectures; 1 laboratory; 3 credits.

3-b. ELEMENTARY POMOLOGY: ORCHARD AND SMALL FRUITS. A brief consideration of the principles and practice involved in orcharding and in the culture of the most important of the small fruits. Professor Potter.

Recommended elective for Freshmen in Agriculture. 2 lectures; 1 laboratory; 3 credits.

4-c. ADVANCED POMOLOGY: GRAPES AND SMALL FRUITS. A comprehensive study of the history, propagation, planting, cultivation, pruning, harvesting, marketing, injurious insects and diseases of the grape, strawberry and raspberry. The culture of the blackberry, blueberry, cranberry, currant and gooseberry will be discussed in brief. Assistant Professor Latimer.

Elective for any student. 2 lectures; 1 laboratory; 3 credits.

5-a. SYSTEMATIC SURVEY OF FRUITS. The important species of fruits and nuts of temperate regions and their botanical relationships are studied. The student is expected to become familiar with the history, distribution, and merits of each species, and the horticultural varieties developed from it. Assistant Professor Latimer.

Prerequisites: Botany 1-a and Horticulture 3-b. Required of Seniors in Horticulture who have not taken Horticulture 5.5-a or Horticulture 18-a and 18.5-c. 2 lectures; 2 credits. (Given in alternate years beginning with 1936-37.)

5.5-a. SYSTEMATIC SURVEY OF VEGETABLES. The relationships of the species of plants which are cultivated as vegetables are studied in

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the same manner as those of fruits in Horticulture 5-a. Associate Professor Hepler.

Prerequisites: Botany 1-a and Horticulture 1-c. Required of Seniors in Horticulture who have not taken Horticulture 5-a or Horticulture 18-a and 18.5-c. 2 lectures; 2 credits. (Given in alternate years beginning 1935-36.)

6-b. **ADVANCED POMOLOGY: ORCHARD FRUITS.** A detailed study of fundamental principles and experimental data and their application and relation to orchard problems such as growth and rest period in fruit plants, water requirements, soil management, pruning, fruit bud formation, fruit setting, pollination, thinning, winter injury, and the quality and keeping period of fruits in storage. Assistant Professor Latimer.

Prerequisite: Horticulture 3-b. Elective for any student. 3 lectures; 3 credits.

7-c. **LANDSCAPE GARDENING: GENERAL PRINCIPLES.** A study of the principles involved in ornamental and landscape gardening. Special attention is given to the beautifying of home surroundings. Mr. Clapp.

Elective for any student. 2 lectures; 2 laboratories; 4 credits.

9-b. **FLORICULTURE: CONSERVATORY AND DECORATIVE PLANTS.** A study of the classification, propagation, and culture of the tropical foliage and flowering plants such as ferns, palms, orchids, etc., for use in the conservatory and home. Mr. Macfarlane.

Elective for any student. 1 lecture; 1 laboratory; 2 credits.

9.5-c. **FLORICULTURE: THE OUTDOOR FLOWER GARDEN.** A study of flowering annuals, herbaceous perennials, bulbs and bedding plants, with instruction in their propagation, culture and use in the beautifying of the home grounds. Lectures, laboratory, and field trips. Mr. Macfarlane.

Elective for any student. 1 lecture; 1 laboratory; 2 credits.

10-b. **EVOLUTION AND IMPROVEMENT OF PLANTS.** The application of the principles of genetics to agricultural plant breeding. Hybridiza-

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tion and selection are studied as means of improving horticultural varieties of plants. Professor Potter.

Prerequisite: Zoölogy 32-a. Elective for any student. 2 lectures; 2 credits. (Given in alternate years beginning 1936-37.)

11-b. VEGETABLE FORCING. A study of special vegetables as grown under glass. Emphasis is placed upon the commercial phases of the work, including varieties, culture, and marketing. Each student is required to grow crops from seeding to maturity. Associate Professor Hepler.

Elective for any student. 2 lectures; 1 laboratory; 3 credits.

12-a, 12.5-b. HORTICULTURAL SEMINAR. A review of the recent horticultural literature and methods of investigational work. Each student is required to prepare and present a term paper on some horticultural topic. Professor Potter and staff.

Required of Seniors in Horticulture. Other students must obtain permission to enroll. 2 lectures; 2 credits.

13-c. ADVANCED POMOLOGY LABORATORY. Seasonal practice work in fruit growing including such operations as pruning, grafting, planting and spraying, with discussion and reports. Designed primarily to supplement the laboratory work in Horticulture 3-b and 4-c. Professor Potter and Assistant Professor Latimer.

Prerequisite: Horticulture 3-b. Elective for any student. 1 four-hour laboratory; 2 credits.

14-a, 15-b, 16-c. ADVANCED HORTICULTURE. Subject matter in any phase of horticulture (with laboratory practice if desirable) to meet the needs of special students or groups of students may be taken by arrangement with the head of the department. Professor Potter and staff.

Elective for Juniors and Seniors. Students must obtain permission to register from the head of the department. Hours and credits to be arranged.

17-a. COMMERCIAL VEGETABLE GARDENING. This course deals with the management of commercial vegetable gardens. Special attention

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is given to storing, packing of vegetables for market, their display and judging. Associate Professor Hepler.

Prerequisite: Horticulture 1-c. Elective for any student. 2 lectures; 1 laboratory; 3 credits.

18-a. LANDSCAPE GARDENING: PLANT MATERIALS. The identification of ornamental woody plants as they appear in the fall and early winter and their use in landscape design. Mr. Clapp.

Elective for any student. 1 lecture; 2 laboratories; 3 credits.

18.5-c. LANDSCAPE GARDENING: PLANT MATERIALS. The characteristics of ornamental woody plants as they appear in spring. Mr. Clapp.

Elective for any student. 1 lecture; 2 laboratories; 3 credits.

19-c. ELEMENTARY BEEKEEPING. A study of the life history and habits of honey bees and their adaptation to apiary conditions. The laboratory work includes the assembling and use of hives and hive fittings, and practice in handling bees. Associate Professor Hepler.

Elective for any student. 1 lecture; 1 laboratory; 2 credits.

20-a. COMMERCIAL BEEKEEPING. This course deals with the principles and practices underlying the production of commercial crops of comb and extracted honey. The laboratory work consists of the handling of bees during the fall and winter, the extraction of honey and the preparation for market of extracted honey, comb honey and wax. Associate Professor Hepler.

Elective for any student. 1 lecture; 1 laboratory; 2 credits.

21-c. SUPERVISED HORTICULTURAL EXPERIENCE. Supervised work in orchard, garden, nursery, or greenhouses, April 1st to September 1st. Weekly reports are required. Professor Potter and staff.

Required of all Juniors in the third term of the Junior year. 18 credits.

NOTE.—By permission of the Head of the Department students who have previously had this experience may substitute 18 credits for this required course.

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22-a. FRUIT JUDGING. A study of the fruit characters and commercial characteristics of the leading varieties of fruits with special reference to those important in New England. The student is required to become proficient in recognizing the varieties on sight and in judging exhibition fruit. Assistant Professor Latimer.

Elective for any student. 3 laboratories; 3 credits.

23-a. HARVESTING AND MARKETING OF FRUITS. The handling of fruit crops, technicalities of fruit grading, agencies used and problems met in storing, transporting and merchandising the crop, with laboratory practice in actual packing-house work. Professor Potter.

Elective for any student. 2 lectures; 1 laboratory; 3 credits.

24-b. LANDSCAPE GARDENING: THEORY OF DESIGN. A study of landscape design with special reference to its relation to buildings and grounds. A detailed study will be made of the composition of foundation and screen plantings and of the private garden in its relation to the home and its service features. Mr. Clapp.

Prerequisite: Architecture 50-a or Horticulture 7-c. 2 lectures; 1 laboratory; 3 credits.

25-b. FLORICULTURE: FLORAL DESIGN. This course is arranged to instruct in the principles and theories of floral design and the use of flowers in the home. To a limited extent, a survey is made of the use of flowers at public functions as in halls and churches. Participation in the actual practice of floral arrangement will be required of each student. Mr. Clapp.

Elective for any student. Registration by permission of the instructor. 1 laboratory; 1 credit.

For courses primarily for graduate students, see Catalog of the Graduate School.

LANGUAGES

CLIFFORD S. PARKER, *Professor*
J. HERBERT MARCEAU, *Associate Professor*
JOHN STEPHEN WALSH, *Associate Professor*
RUDOLF L. HERING, *Assistant Professor*
JULIO BERZUNZA, *Assistant Professor*
PAUL P. GRIGAUT, *Assistant Professor*
JOHN A. FLOYD, *Instructor*
HERMAN H. HART, *Assistant*
L. LELAND DURKEE, *Assistant*

All courses in Languages are year courses when required of or elected by students in the College of Liberal Arts.

Certain courses in English literature and Ancient, European, or Latin-American history may be counted by language majors as related courses when approved by the head of the department.

FRENCH

(Freshmen will be assigned to French 1-a, French 4-a, or French 7-a, on the basis of their performance in the French Placement Examination in Freshman Week.)

PROFESSOR PARKER, ASSOCIATE PROFESSOR MARCEAU, ASSISTANT
PROFESSOR GRIGAUT, MR. FLOYD, MR. DURKEE

1-a, 2-b, 3-c. ELEMENTARY FRENCH. Elements of French grammar, reading of simple prose, oral practice, dictation. The course will be sectioned for those entering with credit and without credit in high school French.

5 recitations; 4 credits.

4-a, 5-b, 6-c. INTERMEDIATE FRENCH. Reading and translation, review of grammar, oral practice, composition.

Prerequisite: French 3-c or its equivalent. 3 recitations;
3 credits.

7-a, 8-b, 9-c. MASTERPIECES OF FRENCH LITERATURE. Prose and poetry of some of the most important writers of the seventeenth, eighteenth and nineteenth centuries, with some attention to the historical and cultural background of French literature; composition and oral practice.

Prerequisite: French 6-c. 3 recitations; 3 credits.

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10-a, 11-b, 12-c. FRENCH CLASSICISM. This course, covering the period from 1600 to 1750, will trace the rise and development of the classical ideal in French literature, study the masterpieces of the great writers of the age of Louis XIV, and examine the decline and disintegration of classicism in the 18th century.

Prerequisite: French 9-c. 3 recitations; 3 credits. (Formerly given as 10-a, 11-b, 41-b.)

13-a, 14-b, 15-c. FRENCH COMPOSITION AND CONVERSATION. The use of written and spoken French is taught by careful attention to pronunciation, composition and grammar.

This course is especially valuable for students who wish to teach French and conduct French clubs. Such students will have the opportunity of coöperating with the instructor in the preparation and presentation of French plays. This course should be taken by every student desiring to obtain departmental recommendation for the teaching of French. Enrollment is limited to twenty students per section. Permission of the instructor or of the head of the department is required before enrollment.

Prerequisite: French 6-c with grade of 75 or better; or French 9-c. 3 recitations; 3 credits.

16-a, 17-b, 18-c. FRENCH ROMANTICISM. This course, covering the period from 1750 to 1850, will begin with a study of J. J. Rousseau's work and influence, continue with the important writers of the Romantic school in the 19th century, and analyze the intermingling of Romanticism and Realism in the work of Balzac.

Prerequisite: French 9-c. 3 recitations; 3 credits. (Formerly given as 16-a, 17-b, 42-c.)

19-a, 20-b, 21-c. FRENCH LITERATURE FROM 1850 TO THE PRESENT. This course will study Realism and Naturalism in the novel and drama, the Parnassian and Symbolist schools in poetry, the psychological novels of Bourget, and the various schools and trends of the late 19th and early 20th centuries. Conducted largely in French.

Prerequisite: French 12-c, 18-c, or 42-c. 3 recitations; 3 credits.

22-a, 23-b, 24-c. FRENCH GRAMMAR. This course, intended primarily for those who intend to teach French, will be devoted to a

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systematic study of French grammar in all its phases from elementary to highly advanced.

Prerequisite: Permission of the instructor or of the head of the department. Permission will be granted only to Juniors, Seniors, and graduate students. 3 recitations; 3 credits.

41-b, 42-c. FRENCH LITERATURE AND CIVILIZATION OF THE MIDDLE AGES AND THE RENAISSANCE. A study of the various forms and masterpieces of French literature from the beginning to the year 1600, with consideration of their historical and social background. Lectures, extensive reading, reports, and recitations. Recommended for Seniors and graduate students.

Prerequisite: French 12-c or 18-c. 3 lectures; 3 credits.

54-a, 55-b, 56-c. STUDIES IN FRENCH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES. This course will take up several of the greatest French writers from 1700 to 1900 for a detailed and comprehensive study of their work. The choice of writers to be studied in a given year will depend upon the needs or tastes of the students electing the course. The work will be conducted largely in French.

Prerequisite: Senior or graduate standing. 3 recitations; 3 credits.

FRENCH-EDUCATION (FR-ED) 161-a. PROBLEMS IN THE TEACHING OF FRENCH IN THE HIGH SCHOOL. This course will study the special objectives, methods, and problems of high school French. It is open only to Seniors and graduate students who are planning to teach. Visits to schools to observe the work of experienced teachers will be arranged. Students in this course may be given an opportunity to assist in the work of French 1-a, 2-b, 3-c.

Prerequisite: Permission of the head of the department. 3 recitations; 3 credits.

GERMAN

PROFESSOR PARKER, ASSISTANT PROFESSOR HERING, MR. HART,
MR. DURKEE

1-a, 2-b, 3-c. ELEMENTARY GERMAN. Pronunciation, grammar, word building, reading of easy prose, composition, conversation, dictation, memory work.

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For students in the College of Liberal Arts only. 3 recitations; 3 credits.

100-a, 101-b, 102-c. **ELEMENTARY GERMAN.** Same as German 1-a, 2-b, 3-c but for students in the College of Agriculture or Technology only. Not a year-course. Students desiring to take this course should enroll in any of the sections designated in the Course and Room Schedule for German 1-a, 2-b, 3-c.

3 recitations; 3 credits.

4-a, 5-b, 6-c. **INTERMEDIATE GERMAN.** German syntax, reading of from 150 to 200 pages in class and about 100 pages of outside reading, composition, dictation, word-building, and conversation.

Prerequisite: German 3-c or two years of high school German. 3 recitations; 3 credits.

4.5-a, 5.5-b, 6.5-c. **SCIENTIFIC GERMAN.** This course is primarily for students in the scientific, pre-medical, and technological curricula. The aim is to give students power to read scientific German and to translate very accurately.

Prerequisite: German 3-c or two years of high school German. 3 recitations; 3 credits.

7-a, 8-b, 9-c. **MODERN GERMAN FICTION AND DRAMA.** The different movements in German literature of the nineteenth and twentieth centuries, compared with those of the preceding century. The influence of Lessing, Schiller, and Goethe on the drama. The development of the drama from classicism to naturalism. Course to be conducted mainly in German. Written themes in German, outside reading and reports, oral discussions.

Prerequisite: German 6-c. 3 recitations; 3 credits.
(Given in alternate years; not given in 1935-36.)

10-a, 11-b, 12-c. **GERMAN LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES.** A study of the structure of the drama of the classic period is the chief aim of this course. The plays of Lessing, Schiller, Goethe and Hebbel will be studied either in class or as outside reading.

Prerequisite: German 6-c. 3 recitations; 3 credits.
(Given in alternate years; given in 1935-36.)

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13-a, 14-b, 15-c. CONVERSATION AND COMPOSITION. The aim of this course is to give students the ability to converse on everyday topics and to express themselves easily in writing. The work will be conducted in German.

Prerequisites: German 6-c. 3 recitations; 3 credits.

16-a, 17-b, 18-c. GERMAN LITERATURE. A survey of German literature. Readings, themes and reports on outside readings. Lectures and quizzes. Required of German majors.

Prerequisite: Three year-courses of college German or equivalent. 3 recitations; 3 credits. (Given in alternate years; given in 1935-36.)

54-a, 55-b, 56-c. DEUTSCHKUNDE. The history of German civilization.

Prerequisite: Three year-courses of college German or equivalent. 3 recitations; 3 credits. (Given in alternate years; not given in 1935-36.)

GREEK

ASSOCIATE PROFESSOR WALSH

1-a, 2-b, 3-c. ELEMENTARY GREEK. Grammar, composition, translation. (Given every third year; will not be given in 1935-36.)

Prerequisite: Permission of the instructor. 3 recitations; 3 credits.

LATIN

ASSOCIATE PROFESSOR WALSH

1-a, 2-b, 3-c. LATIN POETRY. Study of selected poems of Catullus, Ovid, Phaedrus, Martial and the odes and epodes of Horace. Translations, lectures, and study of Latin influence on English poetry. This course is open to students who have passed three years of Latin in preparatory school.

3 recitations; 3 credits.

4-a, 5-b, 6-c. LATIN PROSE AND COMEDY. The plays of Plautus and Terence, Livy's History (Books I and II), and Pliny's Letters will be studied for their value as mirrors of the life and history of Rome as well as for their literary value.

Prerequisite: Latin 3-c. 3 recitations; 3 credits.

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7-a, 8-b, 9-c. PHILOSOPHY AND SATIRE. Particular attention will be paid to the study of the philosophy, religion, natural science and social theories of the Romans, as exemplified in the writings of Horace, Martial, and Cicero.

Prerequisite: Latin 6-c. 3 recitations; 3 credits. (Given in alternate years; given in 1935-36.)

10-a, 11-b, 12-c. LITERATURE AND HISTORY. This course offers a comprehensive view of Latin literature of the Golden Age.

The works of Caesar, Cicero, and Virgil will be studied for their literary value and historical content. The history of Rome during the Golden Age will be studied in order to provide the background necessary to the student or teacher of the classics. Required of Latin majors.

Prerequisite: Latin 3-c. 3 recitations; 3 credits. (Given in alternate years; not given in 1935-36.)

13-a, 14-b, 15-c. LATIN COMPOSITION AND TEACHING METHODS. Translation of English narrative, beginning with the fundamentals of grammar and progressing to a study of prose style and effective idiomatic expression.

It is open to those who have taken or are taking another course in college Latin and is most necessary for prospective teachers of Latin. Required of Latin majors.

3 recitations; 3 credits.

SPANISH

ASSISTANT PROFESSOR BERZUNZA, MR. FLOYD

1-a, 2-b, 3-c. ELEMENTARY SPANISH. Elements of Spanish grammar, reading of simple prose, oral practice, dictation.

3 recitations; 3 credits.

4-a, 5-b, 6-c. MODERN SPANISH PROSE AND POETRY. Review of grammar, memorization, composition, oral practice and reading.

Prerequisite: Spanish 3-c or its equivalent. Freshmen who offer two or more units of Spanish for admission to college may take this course. 3 recitations; 3 credits.

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7-a, 8-b, 9-c. **THE SPANISH NOVEL.** In the first part of the course, representative novelists of the modern period such as Fernán Caballero, Valera, Pérez, Galdós, Pardo Bazán and Palacio Valdés form the subject of study. In the latter part, Cervantes will be studied. Collateral reading, reports, and lectures on the history of the novel.

Prerequisite: Spanish 6-c. 3 recitations; 3 credits.
(Given in alternate years; not given in 1935-36.)

10-a, 11-b, 12-c. **SPANISH DRAMA.** Dramas of Lope de Vega, Calderón, Echegaray, the Brothers Alvarez Quintero, Benavente, and others. This course is carried on as far as possible in Spanish.

Prerequisite: Spanish 6-c. 3 recitations; 3 credits.
(Given in alternate years; given in 1935-36.)

13-a, 14-b, 15-c. **SPANISH COMPOSITION AND CONVERSATION.** The use of written and spoken Spanish is taught by careful attention to pronunciation, grammar, and composition.

This course is especially valuable for students who wish to teach Spanish and conduct Spanish clubs. Permission of the instructor is required before enrollment.

Prerequisite: Spanish 6-c. 3 recitations; 3 credits.

MATHEMATICS

HERMON L. SLOBIN, *Professor*

GEORGE N. BAUER, *Professor*

WALTER E. WILBUR, *Associate Professor*

MARVIN R. SOLT, *Assistant Professor*

MILTIADES S. DEMOS, *Assistant Professor*

WILLIAM L. KICHLINE, *Instructor*

DONALD M. PERKINS, *Instructor*

1-a, 2-b, 3-c. **FIRST YEAR MATHEMATICS.** This constitutes a course in algebra, trigonometry and analytic geometry.

Prerequisite: See requirements in Mathematics for admission to College of Technology. 6 recitations; 5 credits.

4-a. **CALCULUS.** A study of some of the more elementary fundamental concepts and operations of the calculus. It is designed to give

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to those who are not planning to continue the study of advanced mathematics some conception of calculus as an instrument in the sciences, as a culture, and as a mental discipline.

Prerequisites: 1-a, 2-b, 3-c. 3 recitations; 3 credits.

7-a, -b, 8-b, -c, 9-c. CALCULUS. Applications of differentiation and integration; special methods of integration; the definite integral, applications of the definite integral to geometry, physics and mechanics; introduction to sequence and series.

Prerequisite: Mathematics 3-c. 3 recitations; 3 credits.

10-a, 11-b, 12-c. ADVANCED CALCULUS AND AN INTRODUCTION TO DIFFERENTIAL EQUATIONS. Professor Slobin.

Prerequisite: Mathematics 9-c. 3 recitations; 3 credits.

14-b, 15-c. THE HISTORY OF MATHEMATICS. This course is designed especially for those preparing to teach mathematics in the high school. It aims to give an historical background and an appreciation of the development of various fields of mathematics. Associate Professor Wilbur.

Prerequisite: Mathematics 1-a, 2-b, 3-c. 3 recitations; 3 credits. (Given in 1936-37 and thereafter in alternate years.)

19-b. SOLID GEOMETRY. Elements of solid geometry.

Prerequisite: High School Algebra and Plane Geometry. 3 recitations; 3 credits.

21-a, 22-b, 23-c. MATHEMATICS FOR STUDENTS OF AGRICULTURE. Elements of algebra, geometry and trigonometry.

3 recitations; 3 credits.

101-a, 102-b, 103-c. ELEMENTARY MATHEMATICAL ANALYSIS. This course is designed to prepare students for the study of statistics and mathematics of finance. It uses both analytical and graphical methods. The subjects studied are some of the fundamental functions, logarithmic computations, the simpler elements of least squares, etc. Emphasis is placed upon finding mathematical laws or formulae from empirical data.

MATHEMATICS

Prerequisite: High School Algebra and Plane Geometry. 3 recitations; 3 credits.

104-c. MATHEMATICS OF FINANCE. A study of simple and compound interest, discount, annuities, depreciation, evaluation of securities, building and loan associations, and the elements of life insurance.

Prerequisite: Mathematics 102-b or 1-a. 3 recitations; 3 credits.

110-a, 111-b, 112-c. STATISTICAL METHODS. This is a basic course and aims to present some of the fundamental principles and methods of statistics. Illustrative material drawn from several fields of study including education, business, sociology, and chance. It deals with such topics as the graphical representation of statistical material, frequency distribution, measure of dispersion, averages, time series, index numbers, correlation and estimations. Professor Bauer.

Prerequisite: Mathematics 103-c or 3-c. 3 recitations; 3 credits.

113-a, 114-b. ECONOMIC AND BUSINESS STATISTICS. Applications of the statistical method to economic and business problems. Price levels, seasonal changes, economic cycles, principles used in business forecasting including a consideration of existing business barometers. Professor Bauer.

Prerequisite: Statistics 112-c. 3 recitations; 3 credits.

120-c. ASTRONOMY. A brief descriptive course. The earth as an astronomical body; the sun and the solar system; the constellations; the stars. Assistant Professor Solt.

3 recitations; 3 credits.

121-c. ASTRONOMY. A brief descriptive course, similar to 120-c, but less extensive. Lectures and text. Assistant Professor Solt.

Prerequisite: Civil Engineering 1-c. 2 recitations; 1½ credits.

MATHEMATICS-EDUCATION (MATH-ED) 161-a. PROBLEMS IN THE TEACHING OF HIGH SCHOOL MATHEMATICS. A study of the aims and values of secondary school Mathematics, the recommendations of the national committee on mathematics requirements, and the state board

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requirements; also a study of the subject-matter and the sequence in which it should be presented in both junior and senior high schools, and the various techniques used in teaching secondary school mathematics. Lectures, assigned readings, and discussion. Associate Professor Wilbur.

Prerequisites: Mathematics 1-a, 2-b, 3-c and either 4-a, 19-b, 104-c, or 7-a, 8-b, 9-c. Students preparing to teach mathematics in high school should register for this course. 3 recitations; 3 credits.

MATHEMATICS-EDUCATION (MATH-ED) 165-c. SEMINAR: PROBLEMS IN THE TEACHING OF HIGH SCHOOL MATHEMATICS. A continuation of Math.-Ed. 161-a. Errors, testing program, remedial teaching. There will be assigned readings covering many of the problems. Associate Professor Wilbur.

Prerequisites: Mathematics-Education 161-a. Students preparing to teach Mathematics in high school should register for this course. 3 recitations; 3 credits.

For advanced courses in Mathematics see Catalog of the Graduate School.

MECHANICAL ENGINEERING

GEORGE W. CASE, *Professor*

EDWARD L. GETCHELL, *Associate Professor*

THOMAS J. LATON, *Assistant Professor*

EDWARD T. DONOVAN, *Assistant Professor*

E. HOWARD STOLWORTHY, *Assistant Professor*

JOHN J. UICKER, *Instructor*

LYMAN J. BATCHELDER, *Instructor*

JOHN C. TONKIN, *Instructor*

ELIAS O'CONNELL, *Instructor*

1-a, 2-b, 3-c. ENGINEERING DRAWING. The fundamentals of engineering drawing, including free-hand lettering, use of drawing instruments, the solution of problems in orthographic projection and a brief study of isometric drawing and an application of the principles of descriptive geometry to the solution of problems in points, lines, planes and solids. Assistant Professors Laton and Stolworthy and Mr. Uicker.

MECHANICAL ENGINEERING

Required of Civil, Electrical and Mechanical Engineering Freshmen and in part of Freshmen in Architecture and Chemistry. Required of all Freshmen in College of Technology as stated in regular curricula. 2 laboratories; 2 credits.

4-a, 5-b. MACHINE DRAWING. A further application of the principles of orthographic projection to the drawing of machine parts. Various pictorial systems are studied as an aid in sketching. Problems in intersections and developments as applied to sheet metal work are taken up. Commercial drafting room methods are studied and employed in sketching machine parts, drawing from sketches, making of tracings and blueprints. Assistant Professor Laton.

Prerequisite: Mechanical Engineering 1-a. Required of Sophomores in Mechanical and Electrical Engineering. 2 laboratories; 2 credits.

10-a, -b. WOOD WORK. Plain wood pattern making and elementary foundry practice. Mr. Batchelder.

For Freshmen in Technology. 1 recitation; 2 laboratories; 3 credits.

11-b, -c. WOOD WORK. Plain cabinet making and finishing; use of stain filler, varnish, shellac, enamels, etc. Mr. Batchelder.

Elective for Liberal Arts and Teacher Training students. 2 laboratories; 2 credits.

12-c. WOOD SHOP. Carpentry and building, including the construction of buildings, a study of the steel square and its use in the laying out of rafters, stair stringers, trusses, etc. Mr. Batchelder.

Required of Freshmen in Architecture. 1 recitation; 2 laboratories; 3 credits.

13-c. WOOD SHOP. Instruction in the care and use of tools in farm carpenter shop; saw filing; the making of various implements used on the farm; use of steel square; laying out frames; care of lumber on the farm. Mr. Batchelder.

Elective for students in Agriculture. 2 laboratories; 2 credits.

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14-a, -b, -c. WOOD SHOP. Practice teaching under the supervision of the instructor in wood working. Mr. Batchelder.

For Seniors in Industrial Teacher Training and Education. 2 laboratories; 2 credits.

15-c. WOOD WORK. Advanced pattern making and advanced cabinet making. Mr. Batchelder.

Prerequisite: Mechanical Engineering 10 and 11. For Seniors in Mechanical and Electrical Engineering and Education. 2 laboratories; 2 credits.

16-a, -b. FORGING. This is a study of the operations necessary in the forging of iron and steel, and is designed to teach the methods of drawing, upsetting, welding, twisting, splitting, and punching of iron; also the hardening, tempering, and annealing of steel, and the case hardening of mild steel as adapted to engineering work. Mr. O'Connell.

For Freshmen in the College of Technology. 1 recitation; 2 laboratories; 3 credits.

17-b. FORGING. This is a study of the forging of iron and steel; and is designed to teach the operations of drawing, welding, upsetting, twisting, splitting, and punching of iron; the hardening, tempering and annealing of steel; and the case hardening of mild steel as adapted to agricultural work. Mr. O'Connell.

Elective for students in Teacher Training Curriculum. 3 laboratories; 3 credits.

18-a. FORGING. Advanced work in forging, welding, tempering, case hardening, tool dressing. Mr. O'Connell.

Prerequisite: Mechanical Engineering 16. For Seniors in Industrial Teacher Training Curriculum. 2 laboratories; 2 credits.

20-a, -b; 21-b, -c. MACHINE WORK. Theory and practice of elementary machine work. Practice in the operation of engine lathes and other machine tools. Study of machinability of metals and preparation of test specimens for study of strength of materials, efficiency of various joints, welds and fastenings. Mr. Tonkin.

Required of Mechanical and Electrical Engineering Sophomores. 1 recitation; 2 laboratories; 3 credits.

MECHANICAL ENGINEERING

24-a, 25-b. MACHINERY WORK. Advanced work on the lathe, milling machine, planer, shaper and turret lathe, involving making of tools and special machinery and apparatus. Mr. Tonkin.

Prerequisites: Mechanical Engineering 20-a and 21-b.
2 laboratories; 2 credits.

26-a, -b, -c. MACHINERY WORK. Manufacturing. A course in the appreciation and measurement of skill, production methods, shop management and time study. Mr. Tonkin.

Prerequisite: Mechanical Engineering 25-b. 2 laboratories; 2 credits.

30-a. MACHINERY WORK. An elementary course adapted for all engineering students except those registered in Mechanical and Electrical Engineering. Mr. Tonkin.

Required of Sophomores in Civil Engineering. 2 laboratories; 2 credits.

35-a. FARM SHOP. Forge and machine shop work in the repair of gas engines and the equipment of modern farm buildings, and the making, tempering and repair of farm tools. Mr. Tonkin and Mr. O'Connell.

Limited to Agricultural Teacher Training Juniors. 1 recitation; 2 laboratories; 3 credits.

36-c. FARM SHOP. Design of farm buildings, the identification and selection of lumber, and the use and care of carpenter tools. Mr. Batchelder.

Limited to Agricultural Teacher Training Juniors. 1 recitation; 2 laboratories; 3 credits.

40-a, 41-b, 42-c. MECHANICAL LABORATORY. This course will give the student instruction in the elements of power plant work, operation of machines for testing materials, general survey of laboratory work and method of conducting tests. In the spring term a study is made of various methods of admitting steam to reciprocating engines. Design of plain slide valve and riding cut-off valve by means of Bilgram and Zeuner diagrams. Setting of valves; governors; reversing gears for locomotives and design of Corliss valve. Associate Professor Getchell.

Required of Sophomores in Mechanical Engineering.
2 laboratories; 1½ credits.

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43-a, 44-b, 45-c. **MECHANICS.** A study of forces and moment of forces; determination of stresses in trusses and cranes; centroids and center of gravity; rectilinear and curvilinear motion; translation and rotation of bodies; work, power and energy. The application of the principles of Mechanics to the determination of stress and strain in rigid bodies. Thin walled cylinders; riveted joints; torsion; transverse loading of beams; deflection in beams of all kinds; study of columns and compound stresses. Associate Professor Getchell.

Prerequisite: Mathematics 8-b. Required of Juniors in Mechanical, Electrical and Civil Engineering. Elective for Junior Chemistry students. 3 recitations; 3 credits.

49-a, 50-b, 51-c. **MECHANICS.** Principles of Mechanics as applied to architectural work. Study of force systems, moments, equilibrium, trusses, center of gravity and moment of inertia; tension, compression and shear; riveted joints; strength and deflection of beams; columns; reinforced concrete. Associate Professor Getchell.

Required of all Junior Architects. 3 recitations; 3 credits.

52-a. **TESTING MATERIALS LABORATORY.** Testing of cements and concrete aggregates. Study of methods of obtaining strongest and densest mixtures for concrete and making of specimens for later testing. Associate Professor Getchell.

Required of all Junior Civil Engineers. 1 laboratory; 1 credit.

53-c. **TESTING MATERIALS LABORATORY.** Tension, torsion and shear tests of steel; compression tests; transverse tests of wooden and concrete beams; column tests. Associate Professor Getchell.

Required of Junior Mechanical, Electrical and Civil Engineers. 2 laboratories; 2 credits.

54-c. **MANUFACTURE OF IRON AND STEEL.** Study of the location of ores and other raw materials entering into the manufacture of pig iron, of the blast furnace and conversion of pig iron into wrought iron, Bessemer and open hearth steels, and of the manufacture of steel by electrical methods. Heat treatment of steel to produce the various degrees of hardness, strength and ductility. Associate Professor Getchell.

MECHANICAL ENGINEERING

Required of Junior Mechanical Engineers. 2 recitations; 2 credits.

55-a. HEAT TREATMENT LABORATORY. Study of the effects of various heat treatments on different grades of steel. Testing of the above under different conditions. Microscopic identification of steels, etc. Associate Professor Getchell.

Required of Senior Mechanical Engineers. 2 laboratories; 2 credits.

56-b, -c. KINEMATICS. A study of motion in machine construction; belts, and other flexible connectors; gears and gear teeth; wheels in trains; epicyclic trains; cams; instantaneous centers; linkwork, velocity and acceleration diagrams. Assistant Professor Laton.

Required of Sophomore Mechanical and Electrical Engineers. 2 recitations; 2 laboratories; 3 credits.

58-a, 59-b, 60-c. MACHINE DESIGN. The application of the principles of Mechanics to the design of machine elements. This work to be taken up with the idea of manufacturing the parts in the most economical manner in the shops. General principles of design will be followed rather than attempting to develop any particular system of procedure. Assistant Professor Laton.

Prerequisite: Mechanical Engineering 45-c. Required of Senior Mechanical Engineers. 1 recitation; 2 laboratories; 3 credits.

61-a, 62-b, 63-c. HEAT POWER ENGINEERING. A general study of power generation adaptable to the needs of civil engineers. This course will involve only enough fundamental theory to enable the students to grasp a working knowledge of such power mechanism as they may use after graduation. Mr. Uicker.

Prerequisites: Mathematics 8-b and Mechanical Engineering 45-c. Required of Civil Engineering Seniors. 61-a, 62-b: 2 recitations; 2 credits. 63-c: 1 recitation; 1 laboratory; 2 credits.

64-a, 65-b. THERMODYNAMICS. A study of the fundamental laws of thermodynamics and their relation to the operation of mechanisms using gases and vapors as their working substances. Assistant Professor Donovan.

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Prerequisite: Mathematics 8-b. Required of Junior Mechanical and Electrical Engineers. 3 recitations; 3 credits.

66-c. THERMODYNAMICS. A further study of the laws of thermodynamics, and their engineering application. Assistant Professor Donovan.

Prerequisite: Mechanical Engineering 65-b. Required of Junior Mechanical Engineers. 3 recitations; 3 credits.

67-c. POWER ENGINEERING. A study of the mechanical equipment of the steam and oil power plant and the applications of thermodynamics to this apparatus. Assistant Professor Donovan.

Prerequisite: Mechanical Engineering 65-b. Required of Junior Electrical Engineers. 3 recitations; 3 credits.

68-a, 69-b. MECHANICAL LABORATORY. A study of the apparatus and methods for testing power plant operation and equipment. Assistant Professor Donovan and Mr. Uicker.

Parallel requirement: Enrollment in Mechanical Engineering 65-b in winter term. Required of Junior Electrical Engineers. 2 laboratories; 2 credits.

70-a, 71-b. MECHANICAL LABORATORY. Methods of investigating operation and testing of power plant equipment. Assistant Professor Donovan and Mr. Uicker.

Prerequisite: Mechanical Engineering 42-c, and enrollment in 65-b in winter term. Required of Junior Mechanical Engineers. 2 laboratories; 2 credits.

72-b, 73-c. MECHANICAL LABORATORY. Testing of steam and gas engines in accordance with A. S. M. E. power test codes. Assistant Professor Donovan.

Prerequisites: Mechanical Engineering 65-b and 69-b. Required of Senior Mechanical Engineers. 2 laboratories; 3 credits.

74-a, 75-b. POWER PLANTS. A study of the steam generating power plant dealing with its equipment and costs. Assistant Professor Donovan.

Prerequisites: Mechanical Engineering 65-b or 67-c. Required of Senior Mechanical Engineers. 2 recitations; 2 credits.

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75.5-c. POWER PLANTS. A continuation of 75-b. Assistant Professor Donovan.

Prerequisite: Mechanical Engineering 75-b. Required of Senior Mechanical Engineers. 2 laboratories; 2 credits.

76-a, 77-b, 78-c. AUTOMOTIVE ENGINEERING. A study of the general construction and operation of the motor vehicle, particularly the engine. Assistant Professor Stolworthy.

Prerequisite: Mechanical Engineering 45-c and 66-c. Required of Senior Mechanical Engineers. 2 recitations; 1 laboratory; 3 credits.

79-b. HEATING AND VENTILATING. A study of the present methods of heating and ventilating buildings. Assistant Professor Stolworthy.

Required of Juniors in Architecture. 1 recitation; 2 laboratories; 3 credits.

80-c. HEATING AND VENTILATING. A study of the heat losses and ventilation requirements of buildings, and the design of specific heating and ventilating systems. Assistant Professor Stolworthy.

Required of Seniors in Mechanical Engineering. 1 recitation; 2 laboratories; 3 credits.

82-a, 83-b, 84-c, 85-a, 86-b, 87-c. STUDENT BRANCH OF AMERICAN SOCIETY OF MECHANICAL ENGINEERS. An organization of Junior and Senior students in Mechanical Engineering. The course consists of preparation and presentation of addresses on mechanical engineering topics by members and in which the instructor present criticizes the work from the point of view of delivery, subject matter and terms used.

Required of Juniors and Seniors in Mechanical Engineering. No credit.

90-b, 91-c. THESIS. The thesis embodies research or commercial investigation. Equal emphasis is placed upon composition and accuracy in subject matter.

Required of Senior Mechanical Engineers. 1 recitation; 2 laboratories; 2 credits.

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92-a, 93-b, 94-c. **MANAGEMENT.** A study of the principles of management as they deal with the organization of operations, the administration of personnel and the economic expenditure and investment of money. Professor Case.

Required of Senior Electrical and Mechanical, Junior Civil Engineers and elective for Seniors in General Business. 3 recitations; 3 credits.

95-b. **AERONAUTICS.** The study of aircraft construction and elementary aerodynamics, airports and air commerce regulations. Assistant Professor Stolworthy.

Prerequisite: Physics 6-a and 9-a and Meteorology 1-a. Required of Juniors in Mechanical Engineering and elective for other students. Enrollment in this course is limited to 24 students. 2 recitations; 1 laboratory; 3 credits.

96-c. **AERIAL NAVIGATION.** A study of the compass; plotting and mapping of cross-country courses with compensations for wind and for compass error. Assistant Professor Stolworthy.

Prerequisite: Mechanical Engineering 95-b. Required of Juniors in Mechanical Engineering and elective for other students. 3 recitations; 3 credits.

97-a, 98-b, 99-c. **CONTRIBUTIONS OF ENGINEERS AND SCIENTISTS TO THE FIELD OF ENGINEERING.** Studies of the personal characteristics and life work of engineers and scientists. This course is intended for engineering students who are disqualified from Military Science and Physical Education. Less reading will be required of students disqualified only from Military Science. Mr. Uicker.

3 recitations; 3 credits.

100-a, 101-b, 102-c. **ADVANCED THERMODYNAMICS.** A consideration of the general theory of thermodynamics, and its application to industrial processes. High temperature effects, heat transmission, properties of thermodynamic substances are discussed. Current progress in the field is studied. Assistant Professor Donovan.

Prerequisite: Mechanical Engineering 74-a and permission of instructor. 3 recitations; 3 credits.

METEOROLOGY

CHARLES H. PETTEE, *Professor*

E. HOWARD STOLWORTHY, *Assistant Professor*

1-a. METEOROLOGY. Recitations and lectures on wind systems, precipitation, humidity, laws of storms and tornadoes, and methods of prediction of atmospheric changes. Assistant Professor Stolworthy.

Prerequisite: Physics. Required of students who plan to take Mechanical Engineering 95-b, and elective for various students in Agriculture. Elective for others. 3 recitations; 3 credits.

MILITARY SCIENCE AND TACTICS

LIEUTENANT COLONEL EDWARD W. PUTNEY, *Coast Artillery Corps, Professor*

MAJOR DONOVAN SWANTON, *Infantry, Associate Professor*

CAPTAIN SAMUEL L. BURACKER, *Infantry, Assistant Professor*

CAPTAIN LEWIS P. JORDAN, *Infantry, Assistant Professor*

FIRST LIEUTENANT GEORGE B. ANDERSON, *Coast Artillery Corps, Assistant Professor*

SERGEANT FRED W. WOOD, *Coast Artillery Corps, Assistant*

SERGEANT FRED H. BROWN, *Infantry, Assistant*

Military training is carried on concurrently with the academic work in order that the college man may be prepared for service in time of national emergency as well as for the pursuit of his business or profession.

Two courses in Military Science are offered, one in Coast (heavy and anti-aircraft) Artillery, and one in Infantry, each leading to a commission in the Officers' Reserve Corps of the United States. Each course, which covers four years, is divided into the basic course, covering the first two years, and the advanced course, covering the succeeding two years. The basic course is required of all male Freshmen and Sophomores who are physically fit. The advanced course is elective for those who have completed the basic course.

Exemptions or permission to be absent cannot be accorded to Freshmen or Sophomores; and any student who is absent from any part of the instruction will be required subsequently to make up the omitted training or its equivalent before being credited with the number of credits necessary for graduation.

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Students enrolled in the Colleges of Liberal Arts and Agriculture will be assigned to the Infantry Course, and students enrolled in the College of Technology will be assigned to the Coast Artillery Course. Both courses include the fundamentals of military training, the object of which is the development of qualities which make for success in either civil or military life, such as good health and an erect carriage, courtesy and agreeable manners, enthusiasm, honor, aggressiveness and leadership. In addition, each course pays particular attention to the special material and methods used in that arm.

The Coast Artillery Course covers the principles of construction, use and care of artillery. To the engineering student this course offers, in addition to military training, an excellent opportunity to observe practical applications of his classroom work and to enlarge his view of the engineering field.

The Infantry Course covers the organization, equipment, tactics and administration of Infantry units from the squad to the battalion. This course stresses leadership.

THE RESERVE OFFICERS TRAINING CORPS

Physically fit male students who take military training are enrolled in the Reserve Officers Training Corps. Enrollments are for two years in the Basic and the Advanced Courses. Members of the Corps are loaned* all uniforms and equipment necessary in the training.

ADVANCED COURSE.—The students who are selected for the Advanced Course and who devote the prescribed time to this course, and attend such summer training camps as may be prescribed by the Secretary of War, are allowed during their Junior and Senior years commutation of subsistence at such rate as the Secretary of War may prescribe. During the academic year 1934-35 this was 20 cents per day, totalling about \$135 for the two years. In addition, members of the Advanced Course are paid at the same rate of pay as privates of the Regular Army, while in actual attendance at the summer training camp. Allowance is also made for the purchase of uniforms and equipment by members of the Advanced Course.

* A deposit of \$15 is required of each student having military equipment in his possession, whether registered for Military Science or not. At the end of the academic year or upon a student's severing his connection with the University this deposit will be refunded to him upon the satisfactory return to the University of all military property loaned except that a reasonable deduction will be made to cover any damage beyond natural wear and tear or for the loss of any of the equipment.

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Membership in the Corps does not require the student to enter into any agreement to continue in college a definite length of time, nor does it bind him to any military service. He is as much at liberty to leave college as though he were not a member. He is required, once having entered upon the course, to complete it as a requisite toward graduation in any college maintaining a unit of the Corps, and to observe the rules and regulations prescribed for the government of the Corps.

COMMISSIONS.—Each year upon the completion of the Advanced Course, all qualified students are tendered commissions in the Officers' Reserve Corps of the Army of the United States.

SUMMER CAMPS.—The requirement of members of the Advanced Course to attend the summer training camps is prescribed from time to time by the Secretary of War. These camps are organized by bringing together members of the R.O.T.C. from several colleges. The training taken at college is elaborated upon and special attention is paid to its practical side. (The student is furnished transportation to and from camp and is provided with appropriate uniform for wear during this period, so that his only expenses are for laundry and such other personal expenditures as he may care to make.) Excellent food is provided. Moral conditions are carefully controlled by the regular army officers in charge. The health and hygiene of the students are under direct supervision of medical officers and medical attention is provided for those requiring it while at camp. Athletic contests are a feature of the camp and intercollegiate athletics between members of the different units are encouraged. The student agrees to observe the rules of the camp and to give his best efforts to the course of training. Thus he is offered at no expense an exceptional opportunity for physical and mental development.

ORGANIZATION.—The unit is organized into a regiment consisting of one battalion (three companies) of Infantry and one battalion (three batteries) of Coast Artillery. Student officers, selected from the Senior class by the Professor of Military Science and Tactics, with the approval of the President, are designated for field, staff and company officers not later than the opening of the spring term.

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MILITARY SCIENCE COURSES

BASIC COURSE, INFANTRY

1-a, 2-b, 3-c. **MILITARY FUNDAMENTALS.** Organization of the Army and Infantry; military discipline, courtesy and customs of the service; military history and policy; National Defense Act and the R.O.T.C.; military obligations of citizenship; the current international situation; military sanitation and first aid; weapons; rifle marksmanship; map reading; leadership; drill and ceremonies.

No prerequisites. Required of Freshmen. 1-a and 3-c: 2 recitations; 1 drill; 1½ credits. 2-b: 3 recitations; 1½ credits.

4-a, 5-b, 6-c. **SECOND YEAR, BASIC.** Military history and policy, weapons, scouting and patrolling, musketry, combat principles, leadership, drill and ceremonies.

Required of Sophomores. 4-a and 6-c: 2 recitations; 1 drill; 1½ credits. 5-b: 3 recitations; 1½ credits.

ADVANCED COURSE, INFANTRY

7-a, 8-b, 9-c. **FIRST YEAR, ADVANCED.** Weapons, aerial photograph reading and interpretation, combat training, estimate of the situation and combat orders, field fortification, leadership, drill and ceremonies.

Prerequisite: 6-c. 7-a and 9-c: 3 recitations; 1 drill; 3 credits. 8-b: 4 recitations; 3 credits.

10-a, 11-b, 12-c. **SECOND YEAR, ADVANCED.** Military history and policy; company administration; military intelligence; signal communications; chemical warfare, defensive use of non-toxic agent; military law; combat principles, platoon, company and battalion; leadership; drill and ceremonies.

Prerequisite: 9-c. 10-a and 12-c: 3 recitations; 1 drill; 3 credits. 11-b: 4 recitations; 3 credits.

BASIC COURSE, COAST ARTILLERY

18-a, 19-b, 20-c. **MILITARY FUNDAMENTALS.** Organization of the Army and Coast Artillery; military discipline, courtesy and customs

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of the service; military history and policy; National Defense Act and the R.O.T.C.; military obligations of citizenship; the current international situation; primary coast artillery instruction; rifle marksmanship; ammunition, weapons and material; military sanitation and first aid; leadership; drill and ceremonies.

No prerequisites. Required of Freshmen in Coast Artillery. 18-a and 20-c: 2 recitations; 1 drill; 1½ credits. 19-b: 3 recitations; 1½ credits.

21-a, 22-b, 23-c. SECOND YEAR, BASIC. Fire control and position finding for seacoast artillery; characteristics of naval targets; fire control and position finding for antiaircraft artillery; identification of aircraft; leadership, drill and ceremonies.

Prerequisite: 20-c. Required of Sophomores in Coast Artillery. 21-a and 23-c: 2 recitations; 1 drill; 1½ credits. 22-b: 3 recitations; 1½ credits.

ADVANCED COURSE, COAST ARTILLERY

24-a, 25-b, 26-c. FIRST YEAR, ADVANCED. Map and aerial photograph reading; combat orders; gunnery, seacoast and antiaircraft artillery; leadership; drill and ceremonies.

Prerequisite: 23-c. 24-a and 26-c: 3 recitations; 1 drill; 3 credits. 25-b: 4 recitations; 3 credits.

27-a, 28-b, 29-c. SECOND YEAR, ADVANCED. Military history and policy; motor transportation; artillery tactics; artillery material, guns, carriages, mines and ammunition; military law; orientation, topographical operation required for artillery firing; field engineering; administration; leadership; drill and ceremonies.

Prerequisite: 26-c. 27-a and 29-c: 3 recitations; 1 drill; 3 credits. 28-b: 4 recitations; 3 credits.

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MUSIC

ROBERT W. MANTON, *Associate Professor and Director*

LEWIS C. SWAIN, *Instructor and Bandmaster*

The courses offered by the department for a major are of two kinds:

1. Courses which are technical and grammatical in nature and are meant to provide a solid background for students intending to follow the musical profession as teachers and composers. These are Music 107-a, 108-b, 109-c; 110-a, 111-b, 112-c; 113-a, 114-b, 115-c; 116-a, 117-b, 118-c; 119-a, 120-b, 121-c.

2. Courses which treat of the historical, literary and aesthetic side of music and are meant for those who wish to acquire a broad appreciation of the art, and to familiarize themselves with the standard works of musical literature. These courses are Music 101-a, 102-b, 103-c; 104-a, 105-b, 106-c; 125-a, 126-b, 127-c.

3. The third group of courses is practical in nature and embraces the educational activities of the University Glee Clubs, Band, and Symphony Orchestra.

Closely related departments and courses are Languages (French and German), and English (English Literature and Appreciation of Art).

It is recommended that students who intend to elect Music as a major consult the head of the department as early in their Freshman year as possible relative to the best disposition of the sequence of courses in the major.

For students who intend to take only one or two courses in Music, for the cultivation of musical taste and general knowledge, Music 101-a, 102-b, 103-c; 104-a, 105-b, 106-c; 125-a, 126-b, 127-c are recommended as best adapted to this end.

Students interested in some particular musical organization, such as glee clubs or orchestra, are permitted to elect the work desired.

1. UNIVERSITY BAND

Prerequisites: Ability to play some band instrument and satisfactory completion of Basic Course, R.O.T.C. Open to others with special permission of the Professor of Military Science and Tactics. 1½ credits.

MUSIC

2. THE MEN'S GLEE CLUB

Open to all undergraduates interested in choral singing who fulfill the requirements of a try-out. $\frac{1}{2}$ credit.

3. ADVANCED CHORAL CLUB (MEN)

Prerequisite: A grade of 80, or more, in the previous course. Participation in some extra-curricular work. 1 credit.

4. THE WOMEN'S GLEE CLUB

Open to all undergraduates interested in choral singing who fulfill the requirements of a try-out. $\frac{1}{2}$ credit.

5. ADVANCED CHORAL CLUB (WOMEN)

Prerequisite: A grade of 80, or more, in the previous course. Participation in some extra-curricular activity. 1 credit.

6. THE UNIVERSITY SYMPHONY ORCHESTRA

Open to all undergraduates interested in orchestral playing who can fulfill the requirements of a try-out. $\frac{1}{2}$ credit.

7. ADVANCED ORCHESTRAL CLUB.

Departmental class illustrations, string quartet, trio playing and the like.

Prerequisite: A grade of 80, or more, in the previous course and exceptional solo technique. 1 credit.

NOTE: In all these activities the educational values will be strongly stressed. The principles of ensemble, solo work, tone production, diction and above all sound musicianship, will be studied and concerts prepared separately and in combination to enhance and vitalize the university life. They may also be called upon to illustrate as the occasion arises the historical and cultural courses of the department. Attendance at rehearsals will be in accordance with the rule covering class work.

101-a, 102-b, 103-c. HISTORY OF MUSIC, FROM THAT OF ANCIENT GREECE TO THE PRESENT DAY. This is a literary course and instruction is given in the form of lectures. The beginnings of Greek and Roman music, the Early Church, systems of notation, beginnings of harmony and counterpoint, the Troubadours and Minnesingers, the Motet and Madrigal, Folk Song, the 17th, 18th, 19th and 20th century composers, music in America, modern tendencies in composition, polyharmony

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and atonality, are some of the topics treated together with many lesser phases. This course is open to Freshmen and others and presupposes knowledge of the fundamental principles of music. Associate Professor Manton.

Elective. 2 lectures or recitations; 2 credits.

104-a, 105-b, 106-c. **THE APPRECIATION OF MUSIC.** This course begins with a study of the elements of music such as: rhythm, melody, harmony, homophonic and polyphonic types, constructive formulae and the musical forms employed in composition; for upon the recognition of these elements depends the approach to intelligent appreciation. Comprehensive illustrations of the great musical literature will be played and jointly analyzed by the instructor and students from the point of view of the listener. This course is open and especially recommended to all students who wish to become familiar with the art of music in its many phases, and gain a wider acquaintance with the masterpieces of musical art. Associate Professor Manton.

Elective. 3 lectures or recitations; 2 credits.

107-a, 108-b, 109-c. **HARMONY, THE GRAMMAR OF MUSIC.** The fundamental principles of the craft of music are embodied in the study of harmony. This course treats of the different chords in their natural and combined relations: triads, seventh and ninth chords with their inversions and resolutions; cadences, chromatically altered chords, augmented chords, suspensions; embellishing tones, modulation, melody writing, and pedal point.

The work consists of exercises on figured basses and the harmonization of given melodies and dictation. This course is especially recommended to Freshmen but may be elected by others. The ability to play some instrument will facilitate an understanding of the course. Associate Professor Manton.

Elective. 2 lectures or recitations; 2 credits.

110-a, 111-b, 112-c. **ADVANCED HARMONY AND HARMONIC ANALYSIS.** This course is intended to supplement 107-a—109-c and to lay stress on the many significant innovations found in modern harmony; to make a study of modal harmony and its relation to composition and the appreciation of fifteenth- and sixteenth-century music; and to give

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the student a thorough harmonic vocabulary in preparation for contrapuntal writing. Associate Professor Manton.

Prerequisite: Music 107-a—109-c. 2 lectures or recitations; 2 credits.

113-a, 114-b, 115-c. COUNTERPOINT AND ELEMENTARY COMPOSITION. Counterpoint is the combining of several melodic voices, a horizontal conception of writing, and is essential to all finished craftsmanship. The work will treat of the various orders of strict two-part counterpoint, the writing of three- and four-part counterpoint, double counterpoint, choral figuration and free imitation. A study will also be made of the trend of contrapuntal writing in modern music, such as dissonant counterpoint, etc.

The work in composition will include detailed training relative to sentence formation, figure treatment, two- and three-part forms, inventions, the variation forms and the various rondo forms up to the Sonata form. Associate Professor Manton.

Prerequisite: Music 107-a—112-c. 3 lectures or recitations; 2 credits.

116-a, 117-b, 118-c. CANON AND FUGUE. Canon and Fugue are the most advanced forms of polyphonic composition and require a thorough grounding in harmony and counterpoint. The object of this course is to perfect the contrapuntal technique of the student, enabling him to study the larger and freer forms of composition. The work will be based on the fugal works of Bach and Franck, and consists of practice in writing rounds, the more practical types of canon, and of the analysis and composition of fugues. Associate Professor Manton.

Prerequisite: 107-a—115-c. 2 lectures or recitations; 2 credits.

119-a, 120-b, 121-c. INSTRUMENTATION. This course is designed to ground the student in the idiomatic writing and technique necessary to score effectively for the symphonic orchestra. It necessitates a good grasp of the fundamental principles of harmony and counterpoint. All the orchestral instruments will be considered individually as to their technique, range, tonal qualities, possibilities and limitations; then in separate choirs, and finally in combination as a unit.

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Orchestral scores will be studied in detail; score reading and reduction emphasized; and original work in this idiom encouraged. Associate Professor Manton.

Prerequisite: 107-a—112-c. 3 lectures or recitations;
2½ credits.

125-a, 126-b, 127-c. **THE HISTORY AND DEVELOPMENT OF CHORAL MUSIC.** This is a special course consisting of lectures, readings and reports. Only a limited number of qualified students will be admitted.

The course is designed to trace a straight line through such study as: Gregorian Chant, folk song, the music of the Troubadours, the beginnings of harmony and counterpoint, the work of the Netherland masters and of Palestrina and his contemporaries; the German choral works of the Reformation, the Tudor School in England; the choral works of Bach, Handel, etc. It ends with a consideration of the choral literature of the nineteenth century and of the modern French, English and Russian choral composers, such as Elgar, Delius, Holst, Vaughan Williams, Lambert, Walton, Honegger, etc.

Students will meet three times a week, the third meeting being devoted to class singing and study of the works considered in the lectures. Associate Professor Manton.

3 lectures or recitations; 2 credits. (Given in alternate years; given in 1935-36.)

128-a, 129-b, 130-c. **PUBLIC SCHOOL MUSIC AND ITS ALLIED FIELDS.** The purpose of this course is three-fold in nature: First, to lay down basic method material and principles of approach for the purpose of awakening and cultivating in young children the taste for the best music; and the expansion of these methods and repertoire through the junior and senior high school periods; Second, to cultivate through the principles of appreciation a growth in perception, understanding and general responsiveness to the art of music, approaching it through formal design and emotional content; Third, to give the individual student training and practical experience in the art of conducting, organization and the production of artistic results in glee clubs and orchestras.

3 lectures or recitations; 2 credits. (Given in alternate years beginning with 1936-37.)

NOTE: No fee is attached to courses 101-a to 130-c inclusive.

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VOICE

FRANCES E. DEWOLFE, *Instructor in Voice*

An opportunity to secure private instruction in voice is available to all students. This offering does not carry academic credit and therefore cannot be used to satisfy major, group, college and university requirements.

Tuition: Students who elect this course will pay tuition (in addition to University tuition) as follows:

Private instruction in voice, \$1.50 per 30-minute lesson.

It is possible to take one lesson every other week, according to the individual circumstances of a student.

31-a, 32-b, 33-c. **ELEMENTARY COURSE.** This course consists of a correct knowledge of such fundamentals as: breath control, resonance, flexibility of voice, attack, enunciation and articulation. It also consists of a practical knowledge of sight singing which enables the student to read and understand his music as fast as the voice acquires the ability to perform the same, supplemented by the correct singing of the simpler form of song or ballad.

Elective. 1 lesson a week.

34-a, 35-b, 36-c. **INTERMEDIATE COURSE.** This course consists of the development of the fundamentals of voice placing such as: breath control, resonance, etc., together with a progressive step in reading made by singing through the different keys. This is supplemented by songs and ballads of medium difficulty, church music, quartet work. Emphasis is placed on dramatic values from the singer's standpoint.

Prerequisite: Voice 31-a—33-c or the equivalent. 1 lesson a week.

37-a, 38-b, 39-c. **ADVANCED COURSE.** This course presupposes the two previous ones; furthers the fundamentals of voice placing, aids in the mastery of all modes, intervals and musical phrases; develops the voice and acquires control of it for finished execution. This is supplemented by a study of the oratorio, opera, and the master works of song.

Prerequisite: Voice 31-a—36-c. 1 lesson a week.

NOTE: 31-a—39-c are fee courses.

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PHILOSOPHY AND PSYCHOLOGY

HERBERT F. RUDD, *Professor*

ADOLPH G. EKDAHL, *Associate Professor*

NAOMI G. EKDAHL, *Assistant Professor*

PHILOSOPHY

PROFESSOR RUDD

24-a, 25-b, 26-c. THE PHILOSOPHY OF MODERN LIFE. This is a survey of problems which are basic in building a modern philosophy of life. First term: a survey of modern sciences in their bearing on philosophy. Second term: a study of human nature and personality development as factors in the attainment of human ideals. Third term: a study of human relations and ethical principles.

Elective for Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

31-a, 32-b, 33-c. HISTORY OF PHILOSOPHY. A history of philosophic thinking from the ancient Greeks to contemporary philosophers.

Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

41-a. ETHICAL PRINCIPLES. A survey and an evaluation of fundamental assumptions about the good life.

Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

42-b. APPLIED ETHICS. An application of ethical theory to contemporary social, economic, political and personal problems.

Elective for Juniors and Seniors who secure the consent of the instructor. 3 lectures or recitations; 3 credits.

43-c. THE ART OF THINKING: LOGIC. A study of the methods, criteria and processes involved in the search for truth.

Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits.

44-a, 45-b, 46-c. THE PHILOSOPHY AND CULTURE OF THE FAR EAST. A study of major movements in the life and thought of eastern Asia.

PHILOSOPHY AND PSYCHOLOGY

Elective for Juniors and Seniors. 3 lectures or recitations; 3 credits. (Given in alternate years; not given in 1935-36.)

54-a, 55-b, 56-c. SEMINAR: SPECIAL PROBLEMS IN PHILOSOPHY.

Elective with consent of instructor for Seniors. Credit to be arranged.

PSYCHOLOGY

ASSOCIATE PROFESSOR A. G. EKDAHL

ASSISTANT PROFESSOR N. G. EKDAHL

Graduate Work: For courses primarily for graduate study see Catalog of Graduate School.

21-a. ELEMENTARY PSYCHOLOGY. This course together with 22-b covers the general field of psychology and consists of lectures, recitations and class demonstrations. A study of the sensations, feeling, attention, reflexes, instincts and emotions. Associate Professor Ekdahl and Assistant Professor Ekdahl.

3 lectures or recitations; 3 credits.

22-b. ELEMENTARY PSYCHOLOGY. A continuation of 21-a. A study of perception, judgment, imagination, association, memory, learning and reasoning. Associate Professor Ekdahl and Assistant Professor Ekdahl.

3 lectures or recitations; 3 credits.

23-c. ADVANCED PSYCHOLOGY. A brief historical survey of the field of theoretical psychology. Psychological concepts and theories as developed by the various modern "schools" of psychology such as Functionalism, Behaviorism and Structuralism, are considered. Associate Professor Ekdahl and Assistant Professor Ekdahl.

Prerequisite: Psychology 21-a, 22-b. 3 lectures or recitations; 3 credits.

25-a. PSYCHOLOGY OF CHILDHOOD. A study of the normal child through the pre-school period and early childhood. The mental processes and emotional reactions are studied in order that child personality may be understood. This course prepares for direct guidance in the home, school and community group as well as informing in general concerning this period of human psychological development. This

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course is suitable for those preparing to be teachers, home-makers, pediatricians, nurses, social workers, school psychologists and clinicians. Assistant Professor Ekdahl.

3 lectures or recitations; 3 credits. (Formerly given as Education 31-a.)

26-b. **PSYCHOLOGY OF ADOLESCENCE.** A study of the normal pre-adolescent and adolescent. The aims of this course are the same as for Psychology 25-a, but are applied to the periods of pre-adolescence and adolescence. This course is suitable for those preparing to be teachers, home-makers, social workers, physicians, nurses, school psychologists, clinicians, scout leaders, etc. Assistant Professor Ekdahl.

Prerequisite: One term of Psychology. 3 lectures or recitations; 3 credits. (Formerly given as Education 32-b.)

27-b. **MENTAL HYGIENE.** A study of the problem child and adolescent. A suggested sequence to study of normal childhood and adolescence. Prevention of problems is stressed but detection and simple diagnosis taught. Ways and means of maintaining a normal mind and re-educating the individual of distorted attitudes are discussed. Case studies are made and instruction trips taken to psychopathic institutions and clinics. Suitable for those preparing to be teachers, home-makers, social workers, physicians, psychiatrists, nurses, school psychologists and clinicians. Assistant Professor Ekdahl.

Prerequisite: One term of Psychology. 3 lectures or recitations; 3 credits. (Formerly given as Education 43-c.)

30-a. **APPLIED PSYCHOLOGY.** The elementary facts, laws, and principles of psychology are considered with specific reference to advertising and salesmanship. Lectures, assigned readings, and discussions. Associate Professor Ekdahl.

3 lectures or recitations; 3 credits. (Formerly given as 30-a and 30-c.)

31-b. **APPLIED PSYCHOLOGY.** The application of psychological knowledge to industry. Such problems as fatigue, time and motion studies and general efficiency are considered. Associate Professor Ekdahl.

PHILOSOPHY AND PSYCHOLOGY

3 lectures or recitations; 3 credits. (Formerly given as Education 34-a.)

32-c. APPLIED PSYCHOLOGY. A study of personnel problems. The application of psychological aptitude and trade tests and their uses. Associate Professor Ekdahl.

3 lectures or recitations; 3 credits. (Formerly given as Education 54-c.)

37-a. EXPERIMENTAL PSYCHOLOGY. Simple experiments on the sensations. Emphasis will be given toward the development of the proper technique of psychological investigation. Associate Professor Ekdahl.

Prerequisite: One term of Psychology. 1 lecture; 2 laboratories; 3 credits.

38-b. EXPERIMENTAL PSYCHOLOGY. Experiments on the complex mental processes involving perception, association, imagination, learning and reasoning. Associate Professor Ekdahl.

Prerequisite: One term of Psychology. 1 lecture; 2 laboratories; 3 credits.

39-c. EXPERIMENTAL PSYCHOLOGY. Psychophysical measurements, the determination of Weber constants, limens of sensibility, etc. Associate Professor Ekdahl.

Prerequisite: One term of Psychology. 1 lecture; 2 laboratories; 3 credits.

40-a. MEASUREMENTS AND STATISTICS. This course consists of a survey of standardized tests of mental ability and educational achievement for the purpose of studying their construction. There is also included a study of elementary statistics necessary for the scoring, validating and standardizing of tests. Suitable for teachers, school psychologists, social workers and clinicians. Assistant Professor Ekdahl.

Prerequisite: One year of Psychology. 3 lectures or recitations; 3 credits. (Formerly given as Education 35-a.)

41-b. MEASUREMENT OF ACHIEVEMENT. A study of standardized educational tests and their administration forms an introduction to this course, which consists mainly of constructing examinations of all types, with special emphasis upon the informal objective test. Origin-

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nality of test construction in the special field of study chosen by the student is especially encouraged. Diagnosis and prognosis by means of examinations, and scholastic grading are samples of topics discussed. Suitable for teachers, school psychologists and clinical workers. Assistant Professor Ekdahl.

Prerequisite: One year of Psychology. 3 lectures or recitations; 3 credits. (Formerly given as Education 36-b.)

42-c. MEASUREMENT OF APTITUDES AND MENTAL ALERTNESS. This is a study of tests ordinarily known as intelligence tests. The course is one chiefly in practicum. Subjects of different ages are furnished for practice in the administering of the Stanford-Binet and other intelligence tests. Suitable for school psychologists, clinicians, social workers and teachers. Assistant Professor Ekdahl.

Prerequisite: One year of Psychology. 3 lectures or recitations; 3 credits. (Formerly given as Education 37-c.)

Psychology 21-a and 22-b may be waived for Seniors and Pre-medical Sophomores in the following courses.

47-a. PHYSIOLOGICAL PSYCHOLOGY. A study of the physical basis of "mind," nerve functions and their correlations with mental processes. Associate Professor Ekdahl.

3 lectures or recitations; 3 credits.

48-b. COMPARATIVE PSYCHOLOGY. A study of psycho-genesis or the development of "mind" beginning with the one-celled organisms. Simple experiments in animal learning. Associate Professor Ekdahl.

3 lectures or recitations; 3 credits.

49-c. ABNORMAL PSYCHOLOGY. A study of abnormal phenomena such as disorders of perception, association, memory, judgment and personality. The psychoses and psychoneuroses will be considered and a brief review of mental deficiency presented. Visits to institutions. Associate Professor Ekdahl.

3 lectures or recitations; 3 credits.

51-a, 52-b, 53-c. SEMINAR: SPECIAL PROBLEMS IN PSYCHOLOGY. Credit to be arranged. Associate Professor Ekdahl.

PHYSICAL EDUCATION

PHYSICAL EDUCATION FOR MEN

- WILLIAM H. COWELL, *Professor, Director of Athletics and Coach of Football*
- HENRY C. SWASEY, *Associate Professor, Coach of Baseball and Basketball*
- PAUL C. SWEET, *Assistant Professor, Coach of Track, Cross-Country, Relay and Winter Sports*
- E. W. CHRISTENSEN, *Instructor, Assistant Coach of Varsity Football, Coach of Hockey and Lacrosse*
- CARL LUNDHOLM, *Instructor, Supervisor and Coach of Freshman Football, Basketball and Baseball*
- ALFRED H. MILLER, *Instructor, Assistant Coach of Football, Relay and Track*
- PERCY F. REED, *Assistant, Coach of Boxing*
- CHARLES O. NASON, *Department Financial Secretary*
- WILLIAM F. MARSH, *Trainer*
- FRANCIS E. CAREY, *Department Secretary*

- AIMS—1. To promote regulated exercise and to provide an incentive and opportunity for every student to receive physical recreation.
2. To secure good posture, a uniform development and a reasonable amount of bodily skill and grace.
3. To stimulate the habit of exercise.

EQUIPMENT.—The Gymnasium affords accommodations for training and indoor games.

Lockers and showers are provided on the ground floor, offices and main exercise floor on the first floor, and department offices on the second floor.

The Memorial Field adjoins the Gymnasium. The field, one of the best in New England, is equipped with a one-fourth mile cinder track, a fine sodded grass football gridiron, and adequate stands for spectators. Adjoining Memorial Field an attractive pond is provided for swimming, skating, hockey, and water sports.

Brackett Field, providing space for baseball and other outdoor sports, is located a short distance from the Gymnasium.

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REQUIREMENTS.—All men students in the freshman and sophomore classes are required to complete the prescribed work in Physical Education. All men disqualified from the regular class work in Physical Education shall be required to register for work in corrective gymnastics, unless excused by the University Health Officer upon recommendation of the University Physician.

The gymnasium suit adopted by the department consists of a gray cotton sleeveless jersey, gray flannel trunks with blue trimming on leg seams, white woolen socks and rubber-soled tennis or basketball shoes. This suit must be worn at all class exercises in Physical Education.

The minimum requirement of each term's work calls for participation in some form of approved physical exercise for at least two periods weekly for 9 weeks.

Students may elect any scheduled activity desired, either as members of an organized athletic squad or as members of regular sections of an approved activity.

The activities which are offered during the year are baseball, basketball, boxing, cross country, football, hockey, skating, skiing, snowshoeing, swimming, tennis, track and volley ball.

(Consult "Subject and Room Schedule" for Schedule of Approved Activities.)

51-a, 52-b, 53-c. **PHYSICAL EDUCATION.** The program for the year consists of numerous seasonal activities. Students may elect the activity desired. For students physically unfit, corrective gym work will be prescribed.

Required of all Freshmen. Work, 2 hrs.; $\frac{1}{2}$ credit.

54-a, 55-b, 56-c. **PHYSICAL EDUCATION.** The year's program consists of numerous seasonal activities. Students may elect the activity desired. For students physically unfit, corrective gym work will be prescribed.

Required of all Sophomores. Work, 2 hrs.; $\frac{1}{2}$ credit.

PHYSICAL EDUCATION

PHYSICAL EDUCATION FOR WOMEN

MARGARET R. HOBAN, *Assistant Professor and Director*

GWENYTH M. LADD, *Instructor*

MARGARET COLBERT, *Assistant*

CAROLINE M. STREETER, *Assistant*

Zoölogy, Psychology and Education are related departments. Certain courses in these departments will be accepted for the completion of a major.

OBJECTIVES.—To encourage wholesome recreational activities; to establish fundamental health habits; to maintain a balance between mental and physical development.

REQUIREMENTS.—All courses in practical Physical Education for Women are term courses when required of or elected by students in the College of Liberal Arts. Every woman student must take at least one course of practical work each term of her Freshman, Sophomore, and Junior years. One additional sport each term, or a Physical Education theory course each year, may be elected for credit.

Each student must, upon entering, have a physical examination by the University Physician and a posture test by the Physical Education Staff.

Term activities elected by students are approved by the department on the basis of the results of these examinations. Except in special cases, no more than two terms of the same sport shall be credited.

REQUIRED COSTUME.—White step-in blouse, New Hampshire blue tunic, blue ankle-length hose and low black tennis shoes.

1-a, 2-b, 3-c. PHYSICAL EDUCATION.

Fall term.—Archery; Tennis; Hockey; Soccer; Individual Gymnastics (required of each Freshman whose physical condition indicates this need).

Winter term.—Expression Gymnastics; Individual Gymnastics (required of each Freshman whose physical condition indicates this need).

Spring term.—Archery; Tennis; Track; Baseball—outdoor and indoor; Lacrosse; Pageant Dancing; Individual Gymnastics (required of each Freshman whose physical condition indicates this need).

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Required of all Freshmen. (In inclement weather related indoor activities will be substituted for each class.)
2 periods; 1 credit.

1.5-a, 2.5-b, 3.5-c. PHYSICAL EDUCATION.

Fall term.—Archery; Tennis; Hockey; Soccer; Individual Gymnastics.

Winter term.—Expression Gymnastics; Basketball; Tap Dancing; Elementary Character and Natural Dancing; Individual Gymnastics.

Spring term.—Archery; Tennis; Track; Baseball—outdoor and indoor; Lacrosse; Pageant Dancing; Individual Gymnastics.

Required of Freshmen majoring in Physical Education.
Elective for other Freshmen. 2 periods; 1 credit.

4-a, 5-b, 6-c. PHYSICAL EDUCATION.

Fall term.—Archery; Tennis; Hockey; Soccer; Tap Dancing; Horseback Riding; Character and Natural Dancing.

Winter term.—Expression Gymnastics; Basketball; Fencing; Bowling; Winter Sports; Tap Dancing; Character and Natural Dancing; Individual Gymnastics.

Spring term.—Archery; Tennis; Pageant Dancing; Horseback Riding; Track; Baseball—outdoor and indoor; Lacrosse; Individual Gymnastics.

Required of Sophomores. 2 periods; 1 credit.

4.5-a, 5.5-b, 6.5-c. PHYSICAL EDUCATION.

Elect term activities from the list under Physical Education 4-a, 5-b, 6-c. Required of Sophomores majoring in Physical Education. Elective for other Sophomores. 2 periods; 1 credit.

7-a, 8-b, 9-c. PHYSICAL EDUCATION.

Elect term activities from the list under Physical Education 4-a, 5-b, 6-c. Required of Juniors. 2 periods; 1 credit.

7.5-a, 8.5-b, 9.5-c. PHYSICAL EDUCATION.

Elect seasonal activities from the list under Physical Education 4-a, 5-b, 6-c. Required of Juniors majoring in Physical Education. Elective for other Juniors. 2 periods; 1 credit.

PHYSICAL EDUCATION

10-a, 11-b, 12-c. PHYSICAL EDUCATION.

Elect seasonal activities from the list under Physical Education 4-a, 5-b, 6-c. Required of Seniors majoring in Physical Education. Elective for other Seniors. 2 periods; 1 credit.

10.5-a, 11.5-b, 12.5-c. PHYSICAL EDUCATION.

Fall term.—Archery; Tennis; Hockey; Soccer; Tap Dancing; Horse-back Riding; Dance Composition.

Winter term.—Expression Gymnastics; Bowling; Basketball; Heavy Apparatus and Tumbling; Fencing; Winter Sports; Tap Dancing; Character and Folk Dancing; Individual Gymnastics.

Spring term.—Archery; Tennis; Pageant Dancing; Horseback Riding; Track; Baseball; Lacrosse; Swimming and Life Saving; Individual Gymnastics.

Required of Seniors majoring in Physical Education.
Elective for other Seniors. 2 periods; 1 credit.

In addition to the regulation costume required of all students, the following regulations and approximate prices should be noted: students are required to furnish their own individual equipment for such activities as riding, tennis, tap dancing, swimming, individual gymnastics, skating and winter sports; bowling 20 cents a class; horseback riding \$20.00 a season.

MAJOR COURSES

Courses listed in this section are year-courses when required of or elected by students in the College of Liberal Arts. The following courses are required of students majoring in Physical Education. Women students from other departments may, however, elect any of these courses provided they have the proper prerequisites.

14-a, 15-b, 16-c. INTRODUCTION TO PHYSICAL EDUCATION, PLAY AND PAGEANTRY. This course deals with the theory, nature and function of organized play, the history of physical education and the technique of pageantry. Very useful for those who intend to do playground, summer camp or community recreation work.

Required of Sophomores majoring in Physical Education. Elective for others. 3 lectures; 3 credits.

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26-a, 27-b, 28-c. THE THEORY AND COACHING OF ATHLETICS. A detailed study of the principles involved in the teaching of team games and individual sports. Emphasis will be placed on coaching methods and officiating.

Prerequisite: Physical Education 16-c. Required of Juniors majoring in Physical Education. Elective for others. 3 lectures or recitations; 4 one-hour laboratories; 4 credits.

35-a, 36-b, 37-c. REMEDIAL GYMNASTICS AND MASSAGE. This course deals with the adaptation of exercise to individual needs; physical abnormalities and their correction; theory and practice of massage.

Prerequisites: Zoölogy 3-c, 15-c, 35-c. Required of Seniors majoring in Physical Education. Elective for others. 2 lectures or recitations; 1 laboratory; 3 credits.

(P.E.) 161-a, 162-b, 165-c. PROBLEMS IN THE TEACHING OF PHYSICAL EDUCATION. A professional viewpoint of modern physical education. The course includes a definitely organized program of activities from the primary grades through college.

Required of Seniors majoring in Physical Education. Elective for others. 3 lectures or recitations; 4 laboratories; 4 credits. (Formerly given as 23-a, 24-b, 25-c.)

PHYSICS

HORACE L. HOWES, *Professor*

CLEMENT MORAN, *Associate Professor*

RAYMOND R. STARKE, *Assistant Professor*

WILLIAM H. HARTWELL, *Assistant Professor*

HAROLD I. LEAVITT, *Instructor*

1-a, 2-b, 3-c. INTRODUCTORY COLLEGE PHYSICS. The properties of matter, heat, magnetism, electricity, wave-motion, sound, and light. The course includes experimental lectures, laboratory exercises, recitations from Kimball's "College Physics." Professor Howes, Associate Professor Moran, Assistant Professor Starke, Assistant Professor Hartwell, Mr. Leavitt.

Required of students in Agriculture. Elective for Arts students. 1 lecture; 2 recitations; 1 laboratory; 4 credits.

PHYSICS

6-a, 7-b, 8-c. GENERAL PHYSICS. Mechanics and properties of matter the first term, followed by heat and selected topics in sound and light the second term; magnetism and electricity the third term. Duff's "Text Book of Physics" will be used in recitation work. Professor Howes, Associate Professor Moran, Assistant Professor Starke, Assistant Professor Hartwell, Mr. Leavitt.

Prerequisites: Mathematics 1-a, 2-b, and 3-c in advance and Mathematics 7-a, 8-b, and 9-c either in parallel or as a prerequisite. Required of Sophomores in the Chemical, Civil, Mechanical and Electrical Curricula. Elective for those Arts students who have passed Introductory College Physics and have the prerequisites in Mathematics. 1 lecture; 3 or 4 recitations; 4 credits.

9-a. GENERAL PHYSICS LABORATORY. Open only to those students who are studying 6-a, or who have previously obtained credit for 6-a. Experiments in properties of matter and mechanics with report writing and curve-plotting. Reports are carefully criticized by the department and corrected by the student. The appreciation of the laws of physical science, with the development of laboratory technique and estimation of the limitations of scientific experimentation is the aim. Professor Howes, Associate Professor Moran, Assistant Professor Starke, Assistant Professor Hartwell, Mr. Leavitt.

Prerequisites: The same as for 6-a, 7-b, 8-c. Required of Sophomores in Chemical, Civil, Mechanical and Electrical Curricula. Elective for Liberal Arts students on the same conditions as those specified for Physics 6-a. 2 laboratories; 3 credits.

10-b. GENERAL PHYSICS LABORATORY. A continuation of Physics 9-a and including experiments in heat, sound, and light. Associate Professor Moran, Assistant Professor Starke, Assistant Professor Hartwell, Mr. Leavitt.

Prerequisites: Physics 6-a and 9-a. Physics 7-b in parallel or as a prerequisite. 2 laboratories; 3 credits.

11-c. GENERAL PHYSICS LABORATORY. A continuation of Physics 10-b and including experiments in electricity and magnetism. Professor Howes, Associate Professor Moran, Assistant Professor Starke, Assistant Professor Hartwell, Mr. Leavitt.

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Prerequisites: Physics 6-a, 7-b, 9-a, 10-b. Physics 8-c in parallel or as a prerequisite. 2 laboratories; 3 credits.

13-c. ELEMENTARY OPTICS AND PHOTOGRAPHY. Two lectures or recitations on the fundamental principles of geometric optics as applied to photographic instruments. The laboratory is devoted to the study of focal planes, images and other properties of lenses, together with the making of photographs. Students will furnish their supplies, the cost of which will be approximately \$2.00.

Prerequisites: Physics 1-a, 2-b, 3-c, or the equivalent. Not open to Freshmen. 1 lecture; 1 recitation; 1 laboratory; 3 credits.

15-a. THEORY OF ELECTRONS. A brief study of the theory of electricity to include the passage of a current through a gas by ions, the mobility of ions, the determination of the charge and mass of an electron, ionization by collision, the corona discharge, cathode rays, positive rays, thermionic emission, photo-electricity, X-rays. Professor Howes.

Prerequisites: Physics 8-c and 11-c. Mathematics 7-a, 8-b, 9-c. Open only to Juniors and Seniors. Required of Seniors in Electrical Engineering. 2 lectures; 1 recitation; 3 credits.

17-a, 18-b, 19-c. PRE-MEDICAL PHYSICS. A course in the general principles of physics with special attention to the needs of students in preparation for medical work, such as the presentation of data in graphical form, also the handling of electrical apparatus. A working knowledge of high school algebra and geometry is presupposed. Assistant Professor Starke.

Open only to Juniors and Seniors in the Pre-Medical Curriculum. 3 recitations; one 3-hour laboratory; 5 credits.

25-b. PHYSICS FOR TEACHERS. The aim is to study the most difficult topics to teach to high school or academy students. One standard college text and several high-school texts are used as reference books. The seminar method is used. Professor Howes.

Prerequisite: A one-year course in college physics. Open only to Juniors and Seniors. 1 lecture; 2 recitations; 3 credits. (Given in 1935-36.)

POLITICAL SCIENCE

27-a, 28-b, 29-c. **APPLIED PHYSICS.** An introductory course in which special attention is given to stresses in solids, pressure in fluids, transmission of heat, distribution of illumination, acoustics, etc. Lectures, recitations, problem work and experiments. A knowledge of high school algebra and geometry is presupposed. Assistant Professor Hartwell.

Required of Sophomores in Architecture. Elective for Liberal Arts students. 3 recitations; 1 laboratory; 4 credits.

34-b. **ACOUSTICS.** An elementary course in the principles of sound origins, propagation, and reception. The course consists of lectures and recitations based on "Sound" by Capstick. Professor Howes.

Elective for students who have passed Physics 3-c or 7-b. 1 lecture; 2 recitations; 3 credits.

37-c. **ELECTRICAL MEASUREMENTS.** Lectures and recitations on electrical measurements and measuring instruments. Present laboratory facilities permit such experiments as the use of precision potentiometers, the various constants of sensitive galvanometers, time tests of batteries, low resistance by the Kelvin double bridge, high resistance by the method of leakage, various types of alternating current bridges for measuring capacity, self and mutual inductance and frequency, and the characteristics of various types of photo electric cells. Associate Professor Moran.

Prerequisites: Physics 8-c and 11-c. Required of students in Electrical Engineering and in Chemistry. 1 recitation; 1 laboratory; 3 credits.

POLITICAL SCIENCE

THORSTEN KALIJARVI, *Associate Professor*

ERWIN W. BARD, *Instructor*

Courses in this department aim to give the student a thorough grounding in Political Science which should not only serve the purpose of general culture, but also prepare for more intensive work in fields of specialized study, such as law, teaching, politics, government service, and social work. Students are urged to supplement their work in Political Science with courses in Economics, History, and Sociology.

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These are related departments. The department, with a view to broadening the student's range of ideas, or in preparation for research, recommends the acquisition of a reading knowledge of one or more foreign languages, preferably French and German.

All courses in Political Science with the exception of 56-a, 57-b, and 58-c are year-courses when required of or elected by students in the College of Liberal Arts.

GROUP I

ELEMENTARY COURSE

25-a, 26-b, 27-c. **CITIZENSHIP.** This is the introductory course in Political Science which majors in the department are advised to take in the Sophomore year, and to which students seeking an initial elective in Political Science are referred. It deals with the problems and mechanics of political expression such as public opinion and its agencies; the history, membership, structure and aims of organizations exerting political pressure, especially political parties, nominations, and elections; and political democracy and the meaning of the state.

Public Lectures. A prominent figure in local, state or national public life will speak during the third hour of each week on some phase of governmental organization or policy. These lectures will be open to anyone who is interested without registration. Associate Professor Kalijarvi and Mr. Bard.

Open to Sophomores, Juniors, and Seniors without prerequisite. 3 lectures or recitations; 3 credits.

GROUP II

INTERMEDIATE COURSES

28-a, 29-b, 30-c. **AMERICAN GOVERNMENT.** An intensive study of government in the United States from the functional point of view. Corresponding parts and activities of the federal, state and local governments are presented together. The work is organized as follows: (a) Structure (the executive officers, legislatures and the courts); (b) historical explanation; (c) the constitutions of the United States, and the several states; (d) governmental activities including taxation, law enforcement, regulation and promotion of business, protection of

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labor, conservation of natural resources, education, welfare and health, national defense, expenditures, social planning, and the administrative techniques of personnel, purchasing and budgeting.

Developments since March, 1932, will receive careful attention. Especial emphasis will be laid on the State of New Hampshire. It is desirable that the student shall have taken Citizenship, since a knowledge of the content of that course is presumed in American Government. Mr. Bard.

Open to Sophomores, Juniors, and Seniors. 3 lectures or recitations; 3 credits.

50-a, 51-b, 52-c. EUROPEAN GOVERNMENTS. A survey of the character, form and political practices of contemporary foreign governments. Some attention will be given to contemporary movements and developments. A comparison of the organs of governments as they are observed in action or as they may be evaluated in theory. Mr. Bard.

Open to Sophomores, Juniors and Seniors. 3 lectures or recitations; 3 credits.

53-a, 54-b, 55-c. INTERNATIONAL LAW. The study of the law governing the relations of states, consisting primarily of discussions supplemented by the preparation of hypothetical cases. Associate Professor Kalijarvi.

Prerequisite: Political Science 27-c. Junior course. 3 lectures or recitations; 3 credits.

56-a, 57-b. CONSTITUTIONAL LAW. The case study of the constitutional development of the United States in terms of supreme, federal, and state court decisions. Associate Professor Kalijarvi.

Prerequisite: Political Science 27-c. Junior course. 3 lectures or recitations; 3 credits.

58-c. INTRODUCTION TO JURISPRUDENCE. A study of the generalized principles of law and legal institutions. A systematic review of the law as a whole. Discussion and lecture. Associate Professor Kalijarvi.

Prerequisite: Political Science 55-c or 57-b. 3 lectures or recitations; 3 credits.

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GROUP III

ADVANCED COURSES

75-a, 76-b, 77-c. **POLITICAL THEORY.** A reading course in the classics of political thought, including one important work of Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Burke, Paine, Adam Smith, Ricardo, Bentham, Marx, and of others as time will permit. An effort will be made to analyze the political philosophy of the several 19th century schools, and to give the student a philosophical approach to modern political problems. Mr. Bard.

Prerequisite: Two years' work in Political Science.
Senior course. 3 lectures or recitations; 3 credits.

78-a, 79-b, 80-c. **INTERNATIONAL RELATIONS AND WORLD GOVERNMENT.** A study of the forms of international organizations and world politics. This course deals with the rise of the modern nations and their relation to each other. Special effort is made to acquaint the student with the international world in which he is living. Associate Professor Kalijarvi.

Prerequisite: Two years' work in Political Science.
Open to Seniors majoring in History and Economics.
3 lectures or recitations; 3 credits.

81-a, 82-b, 83-c. **SEMINAR.** Papers will be prepared on assigned topics, and reports made under the guidance of the head of the department. Associate Professor Kalijarvi.

For majors who have completed two years' work in Political Science. 1 to 4 credits.

POULTRY HUSBANDRY

T. BURR CHARLES, *Professor*
CARL L. MARTIN, *Assistant Professor*
CHARLES A. BOTTORFF, *Instructor*
ALBERT E. TEPPER, *Instructor*

1-c. **FARM POULTRY.** A general course in poultry husbandry, taking up the breeds, housing, incubation, brooding, feeding, breeding, culling and selection, and management. Professor Charles.

Recommended elective for Freshmen in Agriculture. 2 lectures; 1 laboratory; 3 credits.

POULTRY HUSBANDRY

5-b. **POULTRY MANAGEMENT.** This course is designed to correlate all phases of poultry management. As a part of the laboratory work, a detailed "three-year" development plan of a poultry farm will be studied. Professor Charles.

Prerequisite: Poultry 1-c. Required of certain Seniors in Poultry. Elective for others. 3 lectures; 1 laboratory; 3 credits.

6-b. **POULTRY DISEASES.** A study of the anatomy of the fowl and the various common poultry diseases encountered in poultry practice with lectures and clinics on the methods of prevention and treatment. Mr. Bottorff.

Prerequisite: Poultry 1-c. Required of all Juniors in Poultry. Elective for others. 3 lectures; 1 laboratory; 4 credits.

7-b. **INCUBATION.** A study of the theories involved in incubation and brooding, with each student running an incubator and keeping all the necessary records. Professor Charles.

Prerequisite: Poultry 1-c. Required of certain Seniors in Poultry. Elective for others. 2 lectures; 2 laboratories; 4 credits.

9-c. **POULTRY FEEDING.** A course dealing with the principles of feeding, and the comparative value of various grains and feeds used in poultry rations. Each student is obliged to do practical work in feeding and caring for a flock of hens. Mr. Tepper.

Prerequisite: Poultry 1-c. Required of certain Seniors in Poultry. Elective for others. 3 lectures; 2 laboratories; 4 credits.

10-a. **POULTRY BREEDING.** A course giving the theory and practice involved in breeding for egg production, including practical work in the selection of breeding stock. Professor Charles.

Prerequisite: Poultry 1-c. Required of all Juniors in Poultry. Elective for others. 3 lectures; 3 credits.

11-b. **POULTRY FOR TEACHERS.** This course is designed to give to Teacher Training students the information which they will need in teaching courses in Poultry in secondary schools. Open to Teacher Training students only. Mr. Tepper.

1 lecture; 1 laboratory; 2 credits.

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12-c. **POULTRY BROODING.** This is a laboratory course designed to give to students special information in the care and management of chicks. Professor Charles and Mr. Wilcox.

2 laboratories; 1 credit.

13-c. **POULTRY PRACTICE.** This course is designed to give the student practical work at some successful poultry plant in the hatching and rearing of chickens. The period of apprenticeship will extend from April 1 to September 1.

Required of all Juniors in Poultry. 18 credits.

NOTE: By permission of the Head of the Department, students who have previously had this experience may substitute 18 credits of electives for this course.

14-a, 15-b, 16-c. **POULTRY PROBLEMS.** In this course the student makes a study of some poultry problem, getting such accurate and detailed information as will add materially to his fund of knowledge. Professor Charles and staff.

Required of all Seniors in Poultry. Hours to be arranged. 2 to 3 credits.

17-b. **POULTRY MARKETING.** A study of the market classes of poultry and eggs, their preparation for market and packages used. The storage of poultry, the storage and preservation of eggs and the judging and scoring of eggs are also studied. Mr. Tepper.

Required of certain Seniors in Poultry. Elective for others. 3 lectures; 3 credits.

22-c. **DESIGN AND CONSTRUCTION OF POULTRY FARM EQUIPMENT.** Students design and construct various types of poultry houses and equipment. Mr. Tepper.

Required of certain Seniors in Poultry. Elective for others. 1 laboratory; 1 credit.

23-a. **POULTRY BREEDS AND JUDGING.** The history, characteristics and classification of the different breeds of poultry. Laboratory will consist of practice in judging and scoring of fowls from the utility and exhibition standpoint. Mr. Tepper.

Required of certain Seniors in Poultry. Elective for others. 2 lectures; 1 laboratory; 3 credits.

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31-a, 32-b, 33-c. POULTRY SEMINAR. A seminar course where each student studies recent bulletins on poultry subjects, writes abstracts of them, and delivers to the class an opinion on these bulletins. Group discussions covering pertinent poultry topics will also be held. Professor Charles and staff.

Prerequisite: Poultry 1-c. Required of all Seniors in Poultry. Elective for others. 3 lectures; 2 credits.

SOCIOLOGY

CHARLES W. COULTER, *Professor*

CHARLES NED ELLIOTT, *Instructor*

It is the aim of the department: (1) to develop in the student an understanding of the society in which he lives—its laws, processes, institutions and organization, so that he may effectively function as a unit in the social order; (2) to provide for a potential group pre-professional and limited professional training in the methods and techniques of social work; (3) to provide a professional background for students preparing to teach Sociology in secondary schools.

Requirements for a major in Sociology—36 hours with a grade of 75 or better. Students electing a major must include Principles of Sociology (25-a, 26-b, 27-c); Social Psychology (28-a, 29-b); Methods of Social Progress (80-c), or Methods of Social Research (81-a, 82-b); and at least 9 hours (depending on the field of interest) of specified work in one or more of the following correlated departments: Economics, Political Science, History, Psychology, Home Economics or Zoölogy.

25-a, 26-b, 27-c. PRINCIPLES OF SOCIOLOGY. A comprehensive study of the underlying laws of human society, especially those governing the origin, growth and decline of institutions; group relationships to biological and geographic environments; social processes such as conflict, competition, imitation, accommodation, coöperation, assimilation and differentiation; societal isolation; culture, its organization, content, location and formation; social institutions including the familial, religious, economic, educational, recreational and political; social change with its attendant maladjustments, and social control.

3 lectures or recitations; 3 credits. (Not open to students who have completed 14-a, 15-b, 16-c.)

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28-a, 29-b. SOCIAL PSYCHOLOGY. An analysis of the social aspects of personality, of the processes whereby the individual's impulses are defined after the cultural patterns of the group, of the processes by which one acquires the social world in which he lives, and of the factors which determine attitudes, wishes, habit systems, one's conception of himself and his social role. A critical discussion of the methods utilized at present for the study of human nature introduces the course. Professor Coulter.

3 lectures or recitations; 3 credits. (Not open to students who have completed 17-a, 18-b.)

30-c. SOCIAL ANTHROPOLOGY. A comparative study of primitive folk-ways, institutions and social organization, marriage, economic activities, religion, property inheritance and folklore. An examination of the factors affecting culture and the principles of its development. The significance of primitive culture for an understanding of contemporary civilization. Professor Coulter.

3 lectures or recitations; 3 credits. (Not open to students who have completed 23-a.)

50-a, 51-b. RURAL SOCIOLOGY. A study of the foundation materials of rural life; the physical setting—land, land-policies, land-tenure; land-economics; farm and village population—its composition, its changes; the income basis of rural life, the standard of living; rural habits, attitudes; rural groupings, arrangements, the mechanisms of communication and social control; a study of rural institutions with respect to welfare, sociability, education and religion.

3 lectures or recitations; 3 credits. (Not open to students who have completed 28-b.)

52-c. COMMUNITY ORGANIZATION. A study of town and country community organization with respect to natural and interest groupings and with respect to relationships between town and country; the survey; methods of analyzing problems of community organization; methods of utilizing institutions and equipment in the development of programs and organizations for health, recreation, general welfare and control.

3 lectures or recitations; 3 credits.

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63-a, 64-b. **SOCIAL PATHOLOGY.** A survey of personal, institutional and community disorganization. A study of the social factors involved in alcoholism, drug addiction, prostitution, poverty, vagrancy, juvenile and adult delinquency, divorce and desertion; and instances of the break-down of public opinion, and of community, family, religious and legal sanctions as forces for social control. A consideration of remedial measures based upon a discussion of human nature and the physical conditions of modern life. Especially recommended for pre-medical, pre-legal and other students who will be handling social variants in the field of their professions.

3 lectures or recitations; 3 credits.

65-c. **URBAN SOCIOLOGY.** A study of the changes in community life that have come with the shift of population from rural districts to the city; the factors involved in the rapid growth of cities since 1800; physical structure of the city, processes of internal growth; the segregation which makes of the city a mosaic of distinct cultural worlds; increase in mobility which multiplies social stimuli; typical areas within the city—foreign colonies, rooming house districts, apartment and hotel areas, outlying areas of homes; the effect of the city upon community life, the family, church, school, unorganized group behavior, attitudes and life organization of the person.

3 lectures or recitations; 3 credits. (Not open to students who have completed 28-b.)

66-a, 67-b. **RACE AND RACE RELATIONS.** A comparative study of peoples. Environmental factors. Societal effects of invasion, colonization, and linguistic fusions. Race and class struggles. Jingoism. Race relations in mid-European territory and in the Far East. The problem of world peace. Professor Coulter.

3 lectures or recitations; 3 credits.

68-c. **THE IMMIGRANT AND THE NEGRO.** An investigation of negro and immigrant heritages with special reference to the problems of assimilation and Americanization. Attention is directed to intensive study of selected groups, the Negro, the Jew, the Italian, the Pole, and the Japanese. Professor Coulter.

3 lectures or recitations; 3 credits. (Not open to students who have completed 25-b.)

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75-a, 76-c. **CRIME AND ITS SOCIAL TREATMENT.** A brief presentation of the increase and extent and more popular theories of crime: delinquency, juvenile and adult. Case studies of disorders of conduct and of the criminal behavior of individual delinquents with special reference to the influence of family and neighborhood environments; typical social situations and their influence upon specific types of delinquency; programs for the social treatment of crime, the reorganization of reformatory institutions, classification of offenders for separate treatment, the "honor system," limited self-government, parole and probation, and the juvenile court as agencies for the prevention of delinquency.

3 lectures or recitations; 3 credits. (Not open to students who have completed 27-a.)

77-c. **INSTITUTIONAL SOCIAL WORK.** The principles underlying the organization of custodial placement and correctional institutions; functional relationships of board, executive and staff; personnel management including selection, training, classification, salary schedules, promotion, advancement, transfer, discharge, staff representation and organization; job analysis; committees, financial administration and budgeting; office management; office manual; administrative control; use and place of volunteers; publicity, responsiveness to public opinion and staff participation. Professor Coulter.

Admission on consent of instructor. 3 lectures or recitations; 3 credits.

78-a, 79-b. **THE FAMILY.** The rise of the marriage institution and the family. Modern problems of the family: divorce, desertion, changing status of women, child welfare, child labor laws, and related problems. Professor Coulter.

3 lectures or recitations; 3 credits.

80-c. **METHODS OF SOCIAL PROGRESS.** A study of efforts to improve social conditions and attain a larger measure of social justice. Community experiments. The development of modern social legislation. The application of the principles of insurance to social problems. Various forms of mutual aid and of philanthropy. Endowments and special foundations. Professor Coulter.

3 lectures or recitations; 3 credits.

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81-a, 82-b. METHODS OF SOCIAL RESEARCH. A study of the methods of science and research, the prospects of the social sciences, and the application of the historical, survey, statistical and case methods to social data. Emphasis is also given to the procedure involved in making social studies, i. e., the use of bibliography, definition and selection of the problem, determination of the data needed, collection and arrangement of the data for presentation and exposition.

3 lectures or recitations; 3 credits. (Not open to students who have completed 26-c.)

83-c. PRINCIPLES OF SOCIAL CASE WORK. An analysis of the present trend in family case work; consideration of the techniques of interviewing, diagnosis, treatment and case recording; the significance of present day relief practices.

3 lectures or recitations; 3 credits.

90-a, 91-b. THE CHURCH IN AMERICAN SOCIETY. Contemporary organizations for worship in the community, their correlation functions, and problems. The rise of the Church and its relations to Labor, the State, school, social welfare agencies; significance to the community of its organization and financing. Church federation and union. Professor Coulter.

3 lectures or recitations; 3 credits. (Not given in 1935-36.)

95-a, 96-b. RECREATION AND LEISURE. Problems arising from the increase of leisure time in modern society; typical leisure time activities; theories of play; practical training programs in recreation.

A study of the function of leadership in this connection; analysis of types and qualities of leadership as exhibited by typical leaders; a consideration of the material and program of leadership training.

3 lectures or recitations; 3 credits. (Not given in 1935-36.)

100-a, 101-b, 102-c. DEVELOPMENT OF SOCIOLOGICAL THOUGHT. The history of sociological thought, with special reference to the writings of Comte, Spencer, and the later writers of the nineteenth century; a comparison of contemporary sociological systems. Professor Coulter.

3 lectures or recitations; 3 credits. (Not open to students who have completed 12-c.)

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103-a, 104-b, 105-c. SOCIAL SERVICE AND FIELD WORK. A course designed to give the student practical experience in social work. Field work is done in connection with neighboring social agencies, and is supplemented by readings, lectures and conferences. Professor Coulter and Assistant.

The course may be taken during the college year for 3 credits each term, or during the summer in connection with certain approved settlements, correctional institutions, or case work agencies. Eight weeks' summer residence with an agency is required, for which a maximum of 6 credits is given.

Prerequisite: Sociology 83-c. (Not open to students who have completed 62-c.)

106-a, 107-b, 108-c. SOCIOLOGICAL RESEARCH. A seminar for conference and reports on research projects arranged for graduates and Seniors who have completed major work in Sociology. Professor Coulter and Assistant.

Prerequisite: Sociology 81-a, 82-b. 3 meetings; 3 credits. (Not open to students who have completed 50-a, 51-b, 52-c.)

109-a, 110-b, 111-c. CASE WORK SEMINAR.

Open only to students who have had Sociology 103-a, 104-b, 105-c or its equivalent in Social Service. 3 meetings; 3 credits.

ZOOLOGY

C. FLOYD JACKSON, *Professor*
ALMA D. JACKSON, *Associate Professor*
EDYTHE T. RICHARDSON, *Assistant Professor*
RUTH E. THOMPSON, *Instructor*
CLYDE W. MONROE, *Assistant*
ELEANOR L. SHEEHAN, *Assistant*
W. ROBERT EADIE, *Assistant*

1-a, 2-b, 3-c. PRINCIPLES OF ZOÖLOGY. An elementary study of the principles of life, its development, structural basis and physiological activity. The course is continuous throughout the year. This course is intended to give a practical knowledge of animal life, and is required of all pre-medical students and others intending to major in the Department of Zoölogy. Professor Jackson, Miss Thompson, Mr. Monroe, Miss Sheehan and Mr. Eadie.

Freshman course. Required of Sophomores or Juniors in Agriculture. *This is a year-course when required of or elected by students in the College of Liberal Arts.* 2 lectures; 1 recitation; 1 laboratory; 4 credits.

13-a, 14-b, 15-c. HYGIENE AND SANITATION. A detailed study of the principles of health preservation. The course deals with hygiene of digestion, muscular hygiene, neural hygiene, and various other important physiological processes affecting health. The latter half of the work is devoted to a study of food, water, and general sanitation, and the control of bacterial disease. The course is continuous throughout the year. Professor Jackson, Miss Thompson, Miss Sheehan, Mr. Monroe, and Mr. Eadie.

Prerequisite: One year of Zoölogy. 3 lectures or recitations; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

16-a, 17-b, 18-c. EVOLUTION AND EUGENICS. Lectures and assignments dealing with the various problems of evolution and their relation to human life. Evidence of man's origin based on anatomical, embryonic, and paleontological data will be discussed. This will be followed by a consideration of the chief problem of eugenics. Miss Thompson.

Prerequisite: Two years of Zoölogy. 3 lectures or recitations; 3 credits.

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19-a, 20-b, 21-c. **METHODS OF TEACHING ZOÖLOGY.** Materials and methods in presenting the subject of Zoölogy in secondary schools and introductory college courses will be discussed. There will also be a general survey of the field of Zoölogy for the purpose of correlating the various lines of work previously studied. Laboratory work will consist of an assignment as laboratory assistant to a section in beginning Zoölogy. Assistant Professor Richardson.

Prerequisite: Three years' work in Zoölogy. 2 lectures or recitations; 1 laboratory; 3 credits.

22-a, 23-b, 24-c. **INVERTEBRATE ZOÖLOGY.** A study of the structure, classification, habits, and ecological relationships of the different groups of invertebrate animals. The purpose of this course is to acquaint the student with a large number of type forms, and with the identification, habits, and habitats of the common invertebrate animals.

Prerequisite: One year of Zoölogy. Required of Zoölogy majors. 2 lectures or recitations; 1 laboratory; 3 credits.

33-a, 34-b, 35-c. **HUMAN ANATOMY AND PHYSIOLOGY.** A survey of the structure and function of the human body, with a detailed study of the different systems. This course is correlated with the work in Comparative Anatomy. Collateral readings, written reports and conferences required. Assistant Professor Richardson.

Prerequisite: Zoölogy 3-c. Required of Premedical students. 3 lectures; 3 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

32-a. **GENETICS.** A detailed study of the physical basis of inheritance, laws governing Mendelian inheritance, and the application of such laws to plant and animal breeding. (Same content as 50-c.) For agricultural students. Assistant Professor Richardson.

3 lectures or recitations; 3 credits.

36-a, 37-b, 38-c. **HISTOLOGY.** A study of the microscopical anatomy of the human body. The laboratory work combines the study of demonstration slides showing cell specialization together with a certain amount of the technique in the preparation of such slides. The

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course is for pre-medical students, those interested in becoming laboratory technicians, or those preparing to teach Zoölogy. For additional laboratory technique, see the instructor. Associate Professor Jackson,

Prerequisite: Two years' work in Zoölogy. Junior course. 3 lectures or recitations; 1 laboratory; 4 credits.

39-a, 40-b, 41-c. EMBRYOLOGY. The study of type forms to illustrate the fundamental principles of the embryological development of animals. Invertebrate type larvae are reviewed briefly as a basis for the study of the higher forms including the Protochordata, Amphibia, Aves and Mammalia. Designed particularly for pre-medical and advanced zoölogy students. Associate Professor Jackson.

Prerequisite: Two years' work in Zoölogy. Senior course. 3 lectures or recitations; 1 laboratory; 4 credits.

42-a, 43-b, 44-c. ADVANCED PHYSIOLOGY. An advanced study of human physiology with special emphasis on nutrition, circulation, respiration, excretion and secretion. The work will consist of lectures, assigned topics and laboratory experiments. Assistant Professor Richardson.

Prerequisite: Two years' work in Zoölogy. 3 lectures or recitations; 1 laboratory; 4 credits.

45-a, 46-b, 47-c. COMPARATIVE ANATOMY OF THE VERTEBRATES. A comparative study of the anatomy of vertebrate animals. Laboratory dissections are made of each type. This course parallels the work in 33-a, 34-b, 35-c. Mr. Eadie.

Prerequisite: Zoölogy 3-c. Sophomore course. 2 laboratories; 2 credits. *This is a year-course when required of or elected by students in the College of Liberal Arts.*

48-a, 49-b, 50-c. CYTOLOGY AND GENETICS. A detailed study of the cell, including morphology, the chemical and physical nature of protoplasm, mitosis, meiosis, syngamy, and related phenomena leading up to the physical basis of inheritance and the study of Mendel's laws, the expression and interaction of the genes, linkage, sex and its inheritance, the inheritance of quantitative characters, and the types and causes of variations. Assistant Professor Richardson.

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Prerequisite: Two years' work in Zoölogy. 3 lectures or recitations; 1 laboratory; 4 credits. (Given in alternate years; not given in 1935-36.)

51-a, 52-b, 53-c. **ADVANCED NEUROLOGY.** A comparative study of the nervous system of the lower animals and a detailed study of the morphology, physiology, and histology of the human nervous system. This subject is intended to give a practical knowledge of the nervous system and its operation. Assistant Professor Richardson.

Prerequisite: Two years' work in Zoölogy. 3 lectures or recitations; 1 laboratory; 4 credits. (Given in alternate years; given in 1935-36.)

54-a, 55-b, 56-c. **SEMINAR.** Arranged to meet the needs of students who wish to specialize in zoölogy. Two periods a week will deal with vertebrate ecology and laboratory work consisting of field trips will be scheduled. In place of the ecology, students may choose some special subject for investigation. Professor Jackson and Associate Professor Jackson.

Prerequisite: Three years' work in Zoölogy and permission of the head of the department. Credits and hours to be arranged.

THE TWO-YEAR CURRICULUM IN AGRICULTURE

M. GALE EASTMAN, *Dean*

The Two-Year Curriculum in Agriculture, established in 1895, affords a splendid opportunity for the farm boys of the state to acquaint themselves with the fundamental principles and with the latest and most approved practices of agriculture. This curriculum is arranged especially for the young men who wish to make a business of dairying, livestock raising, poultry, horticulture or general farming, but who do not have the time, money or preparation to take a regular four-year curriculum.

The classes of the two-year curriculum are for the most part separate and distinct from those of the four-year curricula. The work of the first year is largely a study of the sciences of bacteriology, chemistry, botany, and physiology which underlie successful plant and animal production. In short, the student is made to understand the scientific reasons for common farm practices. The second year contains numerous elective courses which make it possible for students to spend at least two-thirds of their time in specializing in some particular line of work in which they expect to engage later.

The two-year curriculum now consists of three terms of about twelve weeks each for two years. The work of this curriculum is made as thorough and practical as the limited time will permit. The students are given practice both in the laboratory and in the field in doing many of the very things which are taught them in the classroom.

Military Science is not required of two-year students, but any student desiring to take the course may elect it with the four-year students.

A student who meets the entrance requirements of the University may receive credit towards graduation from a four-year curriculum in the College of Agriculture for work completed with a grade of 75 or better in certain agricultural courses of the two-year curriculum.

ENTRANCE REQUIREMENTS.—The two-year curriculum is open to both young men and young women. The only entrance requirements are a common school education involving a reasonable knowledge of reading, writing, spelling, arithmetic, English grammar, geography, and United States history. The curriculum is best adapted to students

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from 17 to 21 years of age. Older students frequently take the curriculum, but younger ones are not encouraged to enter.

TUITION AND FEES.—The tuition for students who are residents of New Hampshire is \$75 per year. For out-of-state students the tuition is \$175 per year. One-third of the tuition is payable at the beginning of each term.

SCHOLARSHIP.—The University grants to residents of New Hampshire a limited number of scholarships which cover the tuition charges. Students desiring to secure scholarships should apply to the Dean of the Faculty, Durham, N. H.

EXPENSES.—The expenses of this curriculum will vary with the tastes and frugality of the students. An estimate of the expenses for one year is as follows:

	<i>High</i>	<i>Average</i>	<i>Low</i>
Tuition	\$175	\$75	Free
Books	30	25	\$22
Room	120	72	63
Board	200	200	175
Laundry	35	20	15
Incidentals	50	30	25
	\$610	\$422	\$300

FARM EXPERIENCE REQUIREMENT.—In order to graduate from this curriculum each student must present satisfactory evidence of having had practical experience in farm work, either through having worked on a farm for at least two years after he was 12 years of age, or through having worked on a farm for at least four months after he was 15 years of age.

OPENING, CLOSING.—The curriculum for this year will open Monday, September 23, 1935, and will close Monday, June 15, 1936. A Christmas recess of twelve days and a spring recess of ten days are given.

Two-year students are not required to attend Freshman Week, which begins September 17, 1935.

CERTIFICATE OF GRADUATION.—No degree is given at the end of this curriculum, but a "Certificate of Graduation" is presented to all students who complete the prescribed curriculum of 96 credits or its equivalent.

TWO-YEAR CURRICULUM IN AGRICULTURE

TWO-YEAR CURRICULUM

FIRST YEAR

	Fall Term Credits	Winter Term Credits	Spring Term Credits
Convocation (Required).....			
Phys. Ed. 51-a, 52-b, 53-c.....	1½	1½	1½
*Agr. Chem. 201-a, 202-b (Chemistry).....	3	3	
Agr. Econ. 203-a, 202-b (Rural Economics; Farm Accounts)	3	2	
Bot. 201-a, 202-b, 203-c (Elements of Botany; Plant Diseases)	4	3	2
Eng. 201-a, 202-b, 203-c (Grammar and Composition).....	3	3	3
†D. H. 201-a (Farm Dairying).....	4		
Agron. 206-b (Agricultural Drawing).....		2	
†A. H. 201-b (Types and Breeds).....		4	
†For. 201-c (Farm Forestry).....			3
Hort. 201-c (Elementary Pomology) or			3
Hort. 202-c (Vegetable Gardening).....			3
M. E. 202-c and 203-c (Forge Work; Wood Shop).....			3
Zoöl. 201-c (Physiology and Hygiene).....			3
	17½	17½	17½

SECOND YEAR

Convocation (Required).....			
Agron. 202-a, 203-b, 201-c (Crops; Soils; Equipment).....	4	4	3
Ento. 201-b (Economic Entomology).....		3	
Elective from courses listed below.....	11	8	11
	15	15	14

ELECTIVES

Agr. Econ. 201-a, 204-b (Farm Management; Marketing)....	3	3	
Agr. Econ. 205-a (Farm Statistics).....	2		
Agron. 205-a, 204-c (Farm Buildings; Fertilizers).....	3		3
A. H. 203-a, 204-b, 206-c (Anatomy; Diseases).....	3	3	3
A. H. 202-b (Feeds and Feeding).....		3	
A. H. 205-b (Animal Breeding).....		4	
D. H. 202-b, 203-c (Dairy Manufacturing; Production).....		4	4
Hort. 203-a, 205-b, 206-c (Greenhouse Management; Orchard Problems; Small Fruits).....	3	3	3
Hort. 207-a, 208-b, 210-c (Advanced Horticulture).....	1-3	1-3	1-3
Hort. 204-b (Home Decoration).....		3	
Hort. 209-c (Beekeeping).....			3
P. H. 201-a, 203-b, 204-c (Farm Poultry; Diseases; Feeding)	3	4	4
P. H. 205-a, 202-b, 207-c (Poultry Breeding; Management; Brooding).....	3	3	1
P. H. 208-a, 209-b (Poultry Judging; Marketing).....	3	3	
P. H. 206-b (Incubation).....		4	

* Students who have had Chemistry in high school may omit the first term of Agricultural Chemistry and take only 202-b.

† Students desiring to specialize in Poultry may substitute P. H. 201-a, 203-b and 204-c for these courses.

* DESCRIPTION OF COURSES OF TWO-YEAR
CURRICULUM IN AGRICULTURE

AGRICULTURAL CHEMISTRY

201-a. *AGRICULTURAL CHEMISTRY*. A study of the elementary principles of chemistry, with special emphasis upon the elements of importance in agriculture. Professor Phillips and Mr. Davis.

Required first year. 2 lectures or recitations; 1 laboratory; 3 credits.

202-b. *AGRICULTURAL CHEMISTRY*. Elements of the chemistry of plants, soils, fertilizers, lime, foods and animal physiology. Professor Phillips and Mr. Davis.

Prerequisite: Agricultural Chemistry 201-a. Required first year. 2 lectures or recitations; 1 laboratory; 3 credits.

AGRICULTURAL ECONOMICS

201-a. *FARM MANAGEMENT*. Textbooks, lectures, and recitations relating to farming as a business. Problems of marketing, buying, size of farm, cropping systems, balance in organization, etc. Assistant Professor Grinnell.

Elective second year. 2 lectures; 1 laboratory; 3 credits.

202-b. *FARM RECORDS AND ACCOUNTS*. Lectures and practical farm problems relating to the use of accounts and research information in farming. Actual farm figures used. Assistant Professor Grinnell.

Required first year. 1 laboratory; 2 credits.

203-a. *RURAL ECONOMICS*. Intended to acquaint the Two-Year man with some of the outstanding agricultural questions of the present time and their relation to theoretical and practical economics. Assistant Professor Grinnell.

Required first year. 3 lectures; 3 credits.

* Only Two-Year students in Agriculture are admitted to these courses, except by special arrangement with the Dean.

TWO-YEAR CURRICULUM IN AGRICULTURE

204-b. **AGRICULTURAL MARKETING.** A consideration of the increasing importance of marketing and some of its attendant problems. Special phases of coöperative marketing developed. Assistant Professor Grinnell.

Elective second year. 3 lectures; 3 credits.

205-a. **FARM STATISTICS.** An elementary course dealing with problems of chance in everyday occurrences, and with some consideration of dispersion and correlation. Professor Eastman.

Prerequisite: Algebra. Elective second year. 1 lecture; 1 laboratory; 2 credits.

AGRONOMY

(AGRICULTURAL ENGINEERING)

202-a. **FIELD CROPS.** A study of the most important crops in New England with special emphasis on those of this State. Attention will be given to their history, value, production, management and use. The laboratory work will be as practical as possible, including identification in the laboratory and field, judging and farm seed testing. Assistant Professor Higgins.

Required second year. 3 lectures or recitations; 1 laboratory; 4 credits.

203-b. **SOILS AND SOIL MANAGEMENT.** A study of the basic physical, chemical and biological properties of soils. Added consideration will be given to soil management, concerning systems of maintaining and building up productive soils. Laboratory work will serve to illustrate the more important principles studied. Assistant Professor Higgins.

Required second year. 3 lectures or recitations; 1 laboratory; 4 credits.

204-c. **MANURES AND FERTILIZERS.** A study of the occurrence and function of plant food in soils, and its relation to crop production. Attention will be given to the production, care and use of manure and to the selection and mixing of fertilizers. The response of various crops to different fertilizer elements will be discussed. Associate Professor Prince.

Elective second year. 3 lectures or recitations; 3 credits.

UNIVERSITY OF NEW HAMPSHIRE

AGRICULTURAL ENGINEERING

201-c. FARM EQUIPMENT. A course particularly designed for the farm manager or foreman. Selection, care, repair and methods of use of electrical equipment, field machinery, engines, light plants, motors and tractors. Special emphasis on adaptability to local conditions. Assistant Professor Ackerman and Mr. Foulkrod.

Required second year. 2 lectures; 1 laboratory; 3 credits.

205-a. BUILDINGS AND BUILDING EQUIPMENT. Especially for farm owner, manager or foreman. Considers the farmstead, its buildings and their equipment. Includes mapping, drainage, water supply and sanitation, together with the remodeling and design of farm buildings. Mr. Foulkrod and Mr. Colby.

Prerequisite: 206-b. Elective second year. 1 lecture; 2 laboratories; 3 credits.

206-b. AGRICULTURAL DRAWING. A course in drawing to meet the needs of the men directly engaged in farming—includes practice in lettering—sketches of farm layouts, machine drawing and blueprint reading, and making plans for minor farm buildings. Mr. Colby.

Required first year. 2 laboratories; 2 credits.

ANIMAL HUSBANDRY

201-b. TYPES AND BREEDS OF LIVESTOCK. A study of the different breeds of horses, cattle, sheep, and swine in respect to their origin, history, development, characteristics, and adaptability to different conditions of climate and soil. One afternoon each week is devoted to judging the different breeds. Associate Professor Tirrell.

Required first year. 3 lectures or recitations; 1 laboratory; 4 credits.

202-b. FEEDS AND FEEDING. An elementary study of the laws of nutrition, the character, composition, and digestibility of feed stuffs, and the methods of feeding different kinds of farm animals. Numerous samples of grain and by-products are used for the purpose of familiarizing the students with the different feed stuffs. Practice is given in calculating rations for various purposes. Associate Professor Tirrell.

Elective second year. 3 lectures or recitations; 3 credits.

TWO-YEAR CURRICULUM IN AGRICULTURE

203-a. ANATOMY OF FARM ANIMALS. Same as Animal Husbandry 4-a. 3 credits. Assistant Professor Martin.

204-b. ANIMAL DISEASES. Same as Animal Husbandry 5-b. 3 credits. Assistant Professor Martin.

205-b. ANIMAL BREEDING. Same as Animal Husbandry 7-b. 4 credits. Associate Professor Tirrell.

206-c. ANIMAL DISEASES. Same as Animal Husbandry 6-c. 3 credits. Assistant Professor Martin.

BOTANY

201-a. ELEMENTS OF BOTANY. In this course the student is given a succinct account of the form and structure of plants, and of how plants grow and feed. Mr. Dunn.

Required first year. 2 lectures or recitations; 2 laboratories; 4 credits.

202-b. ELEMENTS OF BOTANY. Similar to 201-a. Mr. Dunn.

Required first year. 2 lectures or recitations; 1 laboratory; 3 credits.

203-c. FUNGUS DISEASES OF PLANTS. The principal fungus diseases, their cure and their prevention. Mr. Dunn.

Required first year. 1 lecture; 1 laboratory; 2 credits.

DAIRY HUSBANDRY

201-a. FARM DAIRYING. A general study of milk and its products. Mr. Moore.

Required first year. 3 lectures or recitations; 1 laboratory; 4 credits.

202-b. MANUFACTURING DAIRY PRODUCTS. Producing, handling and distributing milk; manufacturing and distributing ice cream, butter, condensed milk and other dairy products. Mr. Moore.

Prerequisite: Dairy Husbandry 201-a. Elective second year. 3 lectures or recitations; 1 laboratory; 4 credits.

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203-c. DAIRY PRODUCTION. The field of dairy husbandry in its relation to the producer. Care, feeding and management of dairy animals; dairy herd development; dairy cattle judging. Professor Morrow.

Elective second year. 3 lectures or recitations; 1 laboratory; 4 credits.

ENGLISH

201-a, 202-b, 203-c. GRAMMAR AND ELEMENTARY COMPOSITION.

Required first year. 3 lectures or recitations; 3 credits.

ENTOMOLOGY

201-b. PRINCIPLES OF ECONOMIC ENTOMOLOGY. The relation of the structure and classification of insects to methods of insect control. The preparation and application of insecticides. Spray machinery and appliances. Professor O'Kane and Mr. Conklin.

Required second year. 2 lectures or recitations; 1 laboratory; 3 credits.

FORESTRY

201-c. FARM FORESTRY. The care and management of farm woodlots; log and board scaling; logging and milling; estimating standing timber; protection from fire, insects, fungi, etc.; thinning immature stands; seeding and planting; natural regeneration. Professor Woodward.

Required first year. 2 lectures or recitations; 1 laboratory; 3 credits.

HORTICULTURE

201-c. ELEMENTARY POMOLOGY: ORCHARD AND SMALL FRUITS. A brief consideration of the principles and practice involved in orcharding and in the culture of the most important of the small fruits. Professor Potter.

Required of first-year students who do not take Horticulture 202-c. Elective for other students. 2 lectures; 1 laboratory; 3 credits.

TWO-YEAR CURRICULUM IN AGRICULTURE

202-c. ELEMENTARY VEGETABLE GARDENING. A study of the home vegetable garden, and also of methods used in commercial vegetable production. Associate Professor Hepler.

Required of first-year students who do not take Horticulture 201-c. Elective for other students. 2 lectures; 1 laboratory; 3 credits.

203-a. GREENHOUSE MANAGEMENT. Combined lecture, demonstration and laboratory work in greenhouse management. Mr. Macfarlane.

Elective second year. 2 lectures or recitations; 1 laboratory; 3 credits.

204-b. HOME LANDSCAPE IMPROVEMENT. A study of the ornamental trees, shrubs, vines, and herbaceous plants, with respect to their use and proper arrangement on the home grounds. Mr. Clapp.

Elective second year. 2 lectures or recitations; 1 laboratory; 3 credits.

205-b. ORCHARD PROBLEMS. This course deals with the principal problems of farm and commercial orchard management. It is designed to show the application of the principles of fruit growing to practical conditions. Assistant Professor Latimer.

Elective second year. 3 lectures or recitations; 3 credits.

206-c. SMALL FRUITS AND PLANT PROPAGATION. A study of the propagation of horticultural plants and the culture and marketing of miscellaneous small fruits including the strawberry, cranberry, raspberry, blackberry, grape, and blueberry. This course will also include a brief study of the principles of plant breeding. Assistant Professor Latimer.

Elective second year. 2 lectures or recitations; 1 laboratory; 3 credits.

207-a, 208-b, 210-c. ADVANCED HORTICULTURE. Special work in any phase of horticulture may be taken by arrangement with the head of the department. Professor Potter and staff.

Prerequisites will depend upon the work taken. Elective second year. Hours and credits to be arranged.

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209-c. BEEKEEPING. This course deals with the life history and habits of honey bees with special reference to apiary conditions. The laboratory work consists of practice in handling bees, construction and use of hives, hive fittings, and winter cases. Associate Professor Hepler.

Elective second year. 2 lectures or recitations; 1 laboratory; 3 credits.

POULTRY HUSBANDRY

201-a. FARM POULTRY. A general course designed especially for two-year students who are going back to the farm to take up practical poultry work. The course will include work in managing, feeding, housing, breeding, incubation, brooding, and marketing, with laboratory work as practical as can be made. Mr. Tepper.

2 lectures or recitations; 1 laboratory; 3 credits.

202-b. POULTRY MANAGEMENT. Same as Poultry Husbandry 5-b. 3 credits. Professor Charles.

203-b. POULTRY DISEASES. Same as Poultry Husbandry 6-b. 4 credits. Mr. Bottorff.

204-c. POULTRY FEEDING. Same as Poultry Husbandry 9-c. 4 credits. Mr. Tepper.

205-a. POULTRY BREEDING. Same as Poultry Husbandry 10-a. 3 credits. Professor Charles.

206-b. INCUBATION. Same as Poultry Husbandry 7-b. 4 credits. Professor Charles.

207-c. POULTRY BROODING. Same as Poultry Husbandry 12-c. 1 credit. Professor Charles.

208-a. BREEDS AND JUDGING. Same as Poultry Husbandry 23-a. 3 credits. Mr. Tepper.

209-b. POULTRY MARKETING. Same as Poultry Husbandry 17-b. 3 credits. Mr. Tepper.

TWO-YEAR CURRICULUM IN AGRICULTURE

MECHANICAL ENGINEERING

202-c. **FORGING.** This is a study of the forging of iron and steel, and is designed to teach the operations of drawing, upsetting, welding, twisting, splitting and punching. A study is made of the construction, care, and management of the forge, and instruction is given in tempering, case hardening and annealing. Mr. O'Connell.

Required first year. 1 laboratory; 1 credit.

203-c. **WOOD SHOP.** Farm carpentry and joinery. Care and use of tools, making of implements for the farm, and care of lumber on the farm. Mr. Batchelder.

Required first year. 2 laboratories; 2 credits.

ZOOLOGY

201-c. **HUMAN ANATOMY AND PHYSIOLOGY.** A general survey of the structure and physiology of the human body. The most important principles of hygiene will be pointed out from time to time as various systems are discussed. Mr. Monroe.

Required first year. 3 lectures or recitations; 3 credits.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION

JOHN C. KENDALL, *Director*

The New Hampshire Agricultural Experiment Station, a branch of the University, was established by the state, August 4, 1887, under an act of Congress of March 2 of that year. This and subsequent acts appropriated funds for conducting research work on agricultural problems in New Hampshire and throughout the nation.

The investigations conducted by the Experiment Station vary according to their nature, some lasting through one season only and some covering a period of years. The projects of the Station now include more than eighty fundamental investigations to determine the underlying principles of agricultural science and others of more practical application.

Appropriations from the state also enable the Experiment Station to conduct a limited amount of state service work on agricultural problems. Advantage of the opportunities offered by the Experiment Station has been taken by the state in connection with the tests of seeds, fertilizers, and feeding stuffs; and samples of these collected by the State Department of Agriculture are tested at the Station laboratories each year, in accordance with legislative enactments.

Information relating to agricultural practices is supplied by the various departments and entails a large volume of correspondence in answer to individual inquiries. Samples of soil are tested; plants and insects are identified; blood samples from hens are tested, and *post mortem* examinations of animals made.

The library of the Experiment Station, which is open daily to students and visitors, contains complete files of all bulletins issued by the experiment stations in other states, all United States Department of Agriculture bulletins, and many other reports, bulletins and records as well as books of agricultural value.

Publications of the Station comprise 283 bulletins of the regular series and 46 circulars, 60 technical bulletins, 45 scientific contributions and 4 school bulletins. The publications cover a wide range of subjects and contain the information gathered by the experts of the Station while working on the various projects. The bulletins are issued at regular intervals, and notices of publications are sent to all residents of New Hampshire requesting them.

UNIVERSITY OF NEW HAMPSHIRE
EXTENSION SERVICE
(AGRICULTURE AND HOME ECONOMICS)

JOHN C. KENDALL, *Director*

What the colleges and universities are to those young men and women who come within their walls, the Extension Service is, only to a lesser degree, to the thousands who are beyond the reach of the classroom.

The teachings of the college and the findings of the Experiment Station and the United States Department of Agriculture are now being carried to farms and homes throughout the state by a regularly established force of field workers. A coöperative arrangement was first made possible in 1914 between the United States Department of Agriculture, the state college and the counties of the state by the Smith-Lever Act of Congress, which appropriated funds to be offset by each state. This arrangement was extended by the State Legislature of 1925, which passed a special extension appropriation for county work, and by the Capper-Ketcham and other supplementary acts of Congress. There are now ten agricultural agents in the ten counties, ten home demonstration agents, and ten boys' and girls' club agents and three assistant agents. Farm management, dairying, forestry, soils and crops, poultry, horticulture, marketing, nutrition, clothing and home management demonstrations are also conducted, with specialists in charge.

The Extension Service works largely through a group of rural people known as the Farm Bureau, one of which has been formed in each county. With its corps of fifty-two men and women the Extension Service relieves the college teaching staff and station workers from much of the miscellaneous extension work which they handled in the past. It also carries the work to a much larger public and carries it in a much more intimate way than it would otherwise be possible to do.

The publications of the Extension Service comprise 170 press bulletins, 162 circulars, and 47 bulletins. Notices of new bulletins are sent to a mailing list, which is maintained in coöperation with the Experiment Station. Bulletins are sent free to all who request them.

Reading courses in fifteen subjects in agriculture and home economics, prepared by members of the resident college staff, are offered during the winter months.

DEGREES AND HONORS, 1934

At the Sixty-Fourth Annual Commencement Exercises, Monday, June 18, 1934, at which Merle Thorpe, A.B., Editor *Nation's Business*, made the Commencement address, President Edward M. Lewis conferred the following degrees and certificates:

HONORARY DEGREES

DOCTOR OF LAWS

Frank Palmer Speare, Boston

DOCTOR OF HUMANITIES

Mary Beard, New York City

MASTER OF ARTS

Gladys Hasty Carroll, South Berwick, Me.

ADVANCED DEGREES

MASTER OF ARTS

In History:

- o Dora Augusta Ames, A.B., Wheaton College, 1933, Wilton
- o Newton LeRoy Carroll, B.A., Univ. of New Hampshire, 1933, Durham
- o Marie Veronica Finn, B.A., Univ. of New Hampshire, 1933, Newfields

In Languages:

- ✓ Doris Elizabeth Lavalley, B.A., Univ. of New Hampshire, 1933, Dover

In Social Studies:

- o Theodore Anthony Christophil, B.S., Univ. of New Hampshire, 1933, Manchester

DEGREES

MASTER OF EDUCATION

- ✓ George Rexford Bailey, B.S., Univ. of New Hampshire, 1921, Hartford, Conn.
- ✓ Robert Lucius Boyd, B.S., Mass. State College, 1918, Littleton
- Philip Russell Burlingame, B.S., Univ. of New Hampshire, 1931, Milton
- Tom Cheetham, B.S., Univ. of New Hampshire, 1931, Nashua
- ✓ Ernest Burton Dana, Ph.B., Brown Univ., 1928, Lebanon
- Ernest Fred Forbes, B.S., Univ. of New Hampshire, 1923, Sunapee
- Richard Perry French, A.B., Bowdoin College, 1933, Whitefield
- Audrey Griffin, B.S. in Ed., Boston Univ., 1931, Manchester
- Rose Helen Jeffords, B.S., Simmons College, 1933, Hinsdale
- Marion Lathe, B.Ed., Keene Normal School, 1933, Manchester
- Harold Roberts, A.A., Harvard Univ., 1931, Medford, Mass.
- Elizabeth Stokes, A.B., Bates College, 1931, Rochester
- Howard Reynolds Washburn, A.B., Trinity College, 1925, West Lebanon, Me.
- Villa Elzina Hall Wight, B.S. in Ed., Boston Univ., 1922, Boscawen
- William Wallace Wilder, 2nd, B.S., Univ. of New Hampshire, 1930, Newton

MASTER OF SCIENCE

In Agricultural and Biological Chemistry :

- ✓ Henry Albert Davis, B.S., Univ. of New Hampshire, 1932, East Sullivan
- ✓ Edward Michael Mecheski, B.S., Univ. of New Hampshire, 1932, Northfield, Mass.

In Chemistry :

- ✓ Gilman Kimball Crowell, B.S., Univ. of New Hampshire, 1933, Concord
- ✓ Carroll Edward Jackson, B.S., Univ. of New Hampshire, 1933, Dover
- ✓ Everett Hilton Lang, B.S., Univ. of New Hampshire, 1932, Durham
- George Franklin Temple, B.S., Mass. Institute of Technology, 1930, Somersworth

UNIVERSITY OF NEW HAMPSHIRE

In Entomology :

- o Walter Connor Baker, B.S., Mass. State College, 1932, Franklin, Mass.

In Mathematics :

- o Otis French Cushman, B.S., Univ. of New Hampshire, 1932, Stratham

In Zoölogy :

- ✓ John Henry Adams, B.S., Univ. of New Hampshire, 1930, Keene
- ✓ Marjorie Ada Parsons, A.B., Univ. of New Hampshire, 1933, Colebrook
- ✓ Miriam Newell Ryder, B.S., Univ. of New Hampshire, 1933, Plais-tow
- ✓ Chester Balch Sewell, B.S., Univ. of New Hampshire, 1933, Dover
- ✓ Lloyd Leslie Wells, B.S., Univ. of New Hampshire, 1933, Woodsville

BACCALAUREATE DEGREES

BACHELOR OF SCIENCE

COLLEGE OF AGRICULTURE (25)

NAME	COURSE	P. O. ADDRESS
Cornelius Joseph Ahern	<i>Gen.</i>	<i>Charlestown</i>
William Gust Andberg	<i>Gen.</i>	<i>West Concord</i>
George Preston Bacheller	<i>A. H.</i>	<i>Concord</i>
John James Bakie	<i>A. H.</i>	<i>Kingston</i>
Clarence Albert Banfill	<i>D. H.</i>	<i>Colebrook</i>
John Cameron	<i>P. H.</i>	<i>Hudson</i>
Harrison Webster Chesley	<i>A. H.</i>	<i>Lynn, Mass.</i>
Stanley Wood Colby	<i>A. H.</i>	<i>West Lebanon</i>
Alfred Farnham Conner	<i>Gen.</i>	<i>Exeter</i>
Norman Frank Cree	<i>D. H.</i>	<i>Colebrook</i>
Donald Lenhart Fassnacht	<i>For.</i>	<i>Reading, Pa.</i>
*Dana Everett Goodwin	<i>P. H.</i>	<i>Hollis</i>
George Winthrop Hilton	<i>A. H.</i>	<i>Newmarket</i>
Almon Mudjett Lord	<i>Gen.</i>	<i>Dover</i>
Basil George Markos	<i>Gen.</i>	<i>Dover</i>
Charles William Monahan	<i>A. H.</i>	<i>East Kingston</i>
Clifton Arthur Ordway	<i>Hort.</i>	<i>New Hampton</i>
Robert Williams Paine	<i>For.</i>	<i>Cranston, R. I.</i>
Howard Downes Prince	<i>Gen.</i>	<i>New Boston</i>
**Arnold Densmore Rhodes	<i>For.</i>	<i>Lancaster</i>
Curtis Boyd Sawyer	<i>Hort.</i>	<i>South Danbury</i>
Paul Newton Scripture	<i>Agr. Ch.</i>	<i>Surry</i>
John Clifford Sweetser	<i>Gen.</i>	<i>Portsmouth</i>
Ronald Edward Whitney	<i>For.</i>	<i>Pittsfield</i>
Raymon Charles Willard	<i>Gen.</i>	<i>Temple</i>

COLLEGE OF LIBERAL ARTS (157)

Richard Favor Ahern	<i>Gen. Bus.</i>	<i>Concord</i>
Beda Louise Anderson	<i>Educ.</i>	<i>Durham</i>
Robert Orin Andrews	<i>Educ.</i>	<i>Medford, Mass.</i>
Edward Hicks Averill	<i>Educ.</i>	<i>Durham</i>
Richard John Barney	<i>Gen. Bus.</i>	<i>Whitefield</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P. O. ADDRESS
Mary Mercedes Basim	<i>Soc.</i>	<i>Portsmouth</i>
Walter Earl Batchelder	<i>Zoöl.</i>	<i>Durham</i>
Margaret Theda Bean	<i>Pre-Med.</i>	<i>Orford</i>
Merle Vincent Bemis	<i>Pre-Med.</i>	<i>Conway Center</i>
Rochelle Isabelle Black	<i>Soc.</i>	<i>Nashua</i>
Gunther Blombach	<i>Zoöl.</i>	<i>Marlboro</i>
Roy Rolland Boucher	<i>Gen. Bus.</i>	<i>Manchester</i>
*Conradene Booth Bowen	<i>H. E. I.</i>	<i>Charlestown</i>
Donald Everett Bowler	<i>Educ.</i>	<i>Milford</i>
Harold Melville Bowman, Jr.	<i>Gen. Bus.</i>	<i>Salmon Falls</i>
Henry Frank Brett	<i>Gen. Bus.</i>	<i>Belmont, Mass.</i>
Edna Frances Brown	<i>H. E. I.</i>	<i>East Westmoreland</i>
Donald James Brunel	<i>Educ.</i>	<i>Concord</i>
Lucien Brunelle	<i>Educ.</i>	<i>North Haverhill</i>
Nancy Elizabeth Carlisle	<i>H. E. Ext.</i>	<i>Concord</i>
Mary Frances Carswell	<i>Phys. Educ.</i>	<i>Gorham, Maine</i>
Paul Francis Casci	<i>Gen. Bus.</i>	<i>Concord</i>
Renato Alphonse Castello	<i>Educ.</i>	<i>Woodsville</i>
Leandre Roger Charest	<i>Pre-Med.</i>	<i>Manchester</i>
John Philip Chase	<i>Educ.</i>	<i>Henniker</i>
Mildred Minnie Cochrane	<i>H. E. Ext.</i>	<i>Henniker</i>
Linwood Harvey Congdon	<i>Soc.</i>	<i>Troy</i>
Bernice Mae Cooper	<i>H. E. I.</i>	<i>Lincoln</i>
Paul Herman Cooper	<i>Gen. Bus.</i>	<i>Lincoln</i>
Elizabeth Emma Corriveau	<i>Soc.</i>	<i>Melrose, Mass.</i>
Virgilio Amedeo Corti	<i>Pre-Med.</i>	<i>Mamaroneck, N. Y.</i>
Armand Sylvio Couturier	<i>Educ.</i>	<i>Somersworth</i>
Almon Rufus Cross	<i>Pre-Med.</i>	<i>Colebrook</i>
Lewis Williams Crowell	<i>Soc.</i>	<i>Barrington, R. I.</i>
Katherine Julia Crowley	<i>Educ.</i>	<i>Hanover</i>
Arlene Bernice Crump	<i>Soc.</i>	<i>Nashua</i>
Gordon Lee Cunningham	<i>Econ.</i>	<i>Arlington, Mass.</i>
James Luke Currier	<i>Math.</i>	<i>Tilton</i>
Frederick Warren Dane	<i>Econ.</i>	<i>Marblehead, Mass.</i>
Constance Danforth	<i>H. E. I.</i>	<i>West Newton, Mass.</i>
Frances Louise Davidson	<i>Soc.</i>	<i>Plymouth</i>
Francis Edwin Neilson DeCapot	<i>Educ.</i>	<i>Antrim</i>
John Foley Dee	<i>Pre-Med.</i>	<i>Keene</i>

DEGREES

NAME	COURSE	P. O. ADDRESS
David Allen DeMoulpied	<i>Educ.</i>	<i>Manchester</i>
Ruth Victoria DeVarney	<i>H. E. Tr.</i>	<i>Laconia</i>
Robert Francis Downs	<i>Gen. Bus.</i>	<i>New Brighton, N. Y.</i>
Henry Arthur Dunn	<i>Ent.</i>	<i>Shirley, Mass.</i>
Naomi Marguerite Ekdahl	<i>Pre-Med.</i>	<i>Durham</i>
Stanley Edson Ekstrom	<i>Gen. Bus.</i>	<i>West Concord</i>
Elizabeth Josephine Emerson	<i>Soc.</i>	<i>Fitzwilliam</i>
Elizabeth Barbara Farmer	<i>Educ.</i>	<i>Manchester</i>
John Eugene Felch	<i>Gen. Bus.</i>	<i>Winchester</i>
David Fellman	<i>Econ.</i>	<i>Manchester</i>
Logan Stanley Field	<i>Geol.</i>	<i>Watertown, Mass.</i>
Beulah Caroline Fletcher	<i>H. E.</i>	<i>St. Johnsbury, Vt.</i>
Stanley Whitman Freeman, Jr.	<i>Econ.</i>	<i>Exeter</i>
Leonard Rudolph Frost	<i>Geol.</i>	<i>Concord</i>
Priscilla Hodgdon Garrett	<i>H. E. Tr.</i>	<i>Portsmouth</i>
Phebe Ellen Graham	<i>H. E.</i>	<i>Lebanon</i>
Edna Jeannette Greer	<i>Econ.</i>	<i>North Stratford</i>
William Alvan Grimes	<i>Gen. Bus.</i>	<i>Dover</i>
Natalie Margaret Hadlock	<i>Soc.</i>	<i>Manchester</i>
Howard Joseph Hall	<i>Gen. Bus.</i>	<i>Lowell, Mass.</i>
Parker Lambert Hancock	<i>Gen. Bus.</i>	<i>Concord</i>
Catherine Helen Henry	<i>Educ.</i>	<i>Bethlehem</i>
William Gordon Hooper	<i>Educ.</i>	<i>Berlin</i>
Marjorie Baker Horton	<i>H. E. I.</i>	<i>Dorchester, Mass.</i>
Frederick Fisher Taylor Howell	<i>Econ.</i>	<i>Portsmouth</i>
Park Rowe Hoyt, Jr.	<i>Pre-Med.</i>	<i>Laconia</i>
Marion Fitch Jacobs	<i>Zoöl.</i>	<i>Lancaster</i>
Ruth Helen Johnson	<i>Math.</i>	<i>East Jaffrey</i>
Maurice Katz	<i>Econ.</i>	<i>Manchester</i>
Kenneth Edward Kearns	<i>Soc.</i>	<i>Wolfeboro</i>
Dorothy Clark Kelly	<i>Educ.</i>	<i>Concord</i>
Arthur Edson Kenison, Jr.	<i>Soc.</i>	<i>Ossipee</i>
William Chauncey King	<i>Gen. Bus.</i>	<i>North Walpole</i>
Richard Theodore Lang	<i>Zoöl.</i>	<i>Somersworth</i>
Elizabeth Inez Leighton	<i>Educ.</i>	<i>Stratford</i>
Stanley Charles Lewkowicz	<i>Pre-Med.</i>	<i>Nashua</i>
Ruth Libby	<i>H. E.</i>	<i>Plymouth, Mass.</i>
Lucien Almond Lisabeth	<i>Educ.</i>	<i>Manchester</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P. O. ADDRESS
Andrew Stephen McCaughey	<i>Educ.</i>	<i>Nashua</i>
George Henry McDonald	<i>Gen. Bus.</i>	<i>Keene</i>
William Joseph MacDonald	<i>Zoöl.</i>	<i>Intervale</i>
Helen Margaret McEgan	<i>Educ.</i>	<i>Laconia</i>
John Reginald McGraw	<i>Gen. Bus.</i>	<i>Dover</i>
Eleanor Therese McGreal	<i>Educ.</i>	<i>Somersworth</i>
Winston Frederick McKee	<i>Gen. Bus.</i>	<i>Franklin</i>
Robert William McNamara	<i>Econ.</i>	<i>West Lebanon</i>
Nelson Willis Martin	<i>Pre-Med.</i>	<i>Keene</i>
Frederick Joseph Martineau	<i>Educ.</i>	<i>Portsmouth</i>
Francis Lewis Morrissey	<i>Educ.</i>	<i>Manchester</i>
Jeremiah Richard Morrissey	<i>Educ.</i>	<i>Portsmouth</i>
Miriam Helen Myllymaki	<i>Educ.</i>	<i>West Concord</i>
Maurice Edward Nerbonne	<i>Econ.</i>	<i>Manchester</i>
Helen Mary O'Connell	<i>Educ.</i>	<i>Manchester</i>
Roger William O'Neil	<i>Soc.</i>	<i>Nashua</i>
George James Panagoulis	<i>Pre-Med.</i>	<i>Nashua</i>
*Rhoda Francena Pearson	<i>Econ.</i>	<i>Madison</i>
Annetta Doria Pendergast	<i>Zoöl.</i>	<i>Newmarket</i>
Donald Sabin Perettie	<i>Gen. Bus.</i>	<i>Penacook</i>
Gertrude Ethel Phelps	<i>Econ.</i>	<i>Durham</i>
*Willard Brooks Phelps	<i>Geol.</i>	<i>Nashua</i>
Raymond Nute Philbrick	<i>Gen. Bus.</i>	<i>Conway</i>
Howard Edward Phillips	<i>Gen. Bus.</i>	<i>Albany, N. Y.</i>
Marion Lucy Phillips	<i>H. E. I.</i>	<i>Candia</i>
Edith Frances Pike	<i>Phys. Educ.</i>	<i>Mill Village</i>
Marion Louise Pike	<i>Educ.</i>	<i>Concord</i>
James Henry Pollard, Jr.	<i>Educ.</i>	<i>Manchester</i>
Estelle Thomas Pray	<i>H. E. Tr.</i>	<i>Portsmouth</i>
Izola Murray Prohaska	<i>Soc.</i>	<i>New Castle</i>
Elizabeth May Prowell	<i>Educ.</i>	<i>Berlin</i>
Carl Hoben Purrington	<i>Geol.</i>	<i>Concord</i>
Doris Eleanor Putnam	<i>H. E. I.</i>	<i>Easthampton, Mass.</i>
Frances Mary Robie	<i>Educ.</i>	<i>East Andover</i>
Helen McNear Rockwood	<i>H. E. Tr.</i>	<i>East Kingston</i>
James Peter Romeo	<i>Math.</i>	<i>Milford</i>
Frank Joseph Rosi	<i>Pre-Med.</i>	<i>Colebrook</i>
Dorothy Russell	<i>Educ.</i>	<i>Jamaica Plain, Mass.</i>

DEGREES

NAME	COURSE	P. O. ADDRESS
Roland Judson Sawyer	<i>Econ.</i>	<i>Brunswick, Maine</i>
Evelyn May Searle	<i>Educ.</i>	<i>Salem</i>
Elvira Lucia Serafini	<i>H. E. I.</i>	<i>Hanover</i>
Jeremiah Aidan Sheehan	<i>Zoöl.</i>	<i>Manchester</i>
Harriet Rachel Sherburne	<i>Math.</i>	<i>Concord</i>
Claire Marie Short	<i>Soc.</i>	<i>Portsmouth</i>
Kenneth Shute	<i>Chem.</i>	<i>Whitefield</i>
Raymond Silas Sims	<i>Educ.</i>	<i>Manchester</i>
Sonia Michael Skoby	<i>Educ.</i>	<i>Claremont</i>
Jane Olga Slobodzian	<i>Zoöl.</i>	<i>New Haven, Conn.</i>
Harriet Smalley	<i>H. E. I.</i>	<i>Portsmouth</i>
Nathalie Clifford Smith	<i>Econ.</i>	<i>Topsfield, Mass.</i>
Warren Ferguson Smith	<i>Pre-Med.</i>	<i>Nashua</i>
George James Sousane	<i>Educ.</i>	<i>Exeter</i>
Laura Stackpole	<i>Gen. Bus.</i>	<i>Lynn, Mass.</i>
Mary Natalie Stevens	<i>H. E. I.</i>	<i>North Stratford</i>
Caroline Merriam Streeter	<i>Soc.</i>	<i>Exeter</i>
Alfreda Caroline Surowiec	<i>Educ.</i>	<i>Franklin</i>
Edith Caldwell Swett	<i>Educ.</i>	<i>Andover</i>
Joseph Benedict Targonski	<i>Math.</i>	<i>Worcester, Mass.</i>
Elvie Lillian Teeri	<i>Educ.</i>	<i>Durham</i>
Geraldine Mary Thayer	<i>Educ.</i>	<i>Epping</i>
Olive Josephine Thayer	<i>Zoöl.</i>	<i>Epping</i>
Richard Allerton Tower	<i>Econ.</i>	<i>Maplewood, N. J.</i>
Robert Moses Tripp	<i>Econ.</i>	<i>Short Falls</i>
Robert Warren True	<i>Geol.</i>	<i>West Lebanon</i>
Edward Leon Tucker	<i>Econ.</i>	<i>Concord</i>
Charles Fulvio Varisco	<i>Gen. Bus.</i>	<i>Redstone</i>
Burton Grant Wadsworth	<i>Gen. Bus.</i>	<i>Warner</i>
Alice Elizabeth Walker	<i>Educ.</i>	<i>Newmarket</i>
James Erving Wentworth	<i>Zoöl.</i>	<i>Dover</i>
Ernest Hugo Werner	<i>Soc.</i>	<i>Manchester</i>
Esther Elaine Whipple	<i>Educ.</i>	<i>Lebanon</i>
Elizabeth Cowan Whittemore	<i>H. E. I.</i>	<i>Londonderry</i>
Dexter Harrison Wilcomb	<i>Pre-Med.</i>	<i>Manchester</i>
Gloria Wilcox	<i>Soc.</i>	<i>No. Reading, Mass.</i>
Frederick Courtney Williams	<i>Educ.</i>	<i>Whitefield</i>
Charles Lorenzo York	<i>Pre-Med.</i>	<i>Plymouth</i>

UNIVERSITY OF NEW HAMPSHIRE

COLLEGE OF TECHNOLOGY (66)

NAME	COURSE	P. O. ADDRESS
Oswaldo Abbiati	<i>E. E.</i>	<i>Barre, Vt.</i>
Frederick Adrian Allen	<i>E. E.</i>	<i>Dover</i>
Paul Lincoln Anderson	<i>C. E.</i>	<i>Berlin</i>
Allan Russell Armstrong	<i>Arch.</i>	<i>Plymouth, Mass.</i>
George Morrill Barnett	<i>M. E.</i>	<i>Penacook</i>
*Duane Frank Carlisle	<i>E. E.</i>	<i>Northwood Center</i>
Philip John Carswell	<i>M. E.</i>	<i>Chesham</i>
Norman Stanley Cassell	<i>Chem.</i>	<i>Dover</i>
Trygve Christian Christiansen	<i>C. E.</i>	<i>Berlin</i>
William Herbert Coates	<i>E. E.</i>	<i>Pittsburg</i>
Amasa Gessner Condon	<i>Arch.</i>	<i>Berlin</i>
Ira William Dickey	<i>M. E.</i>	<i>Manchester</i>
Norbert Irenne Diotte	<i>E. E.</i>	<i>Newport</i>
Mitchell Paul Dirsra	<i>Arch.</i>	<i>Exeter</i>
Roger Morton Doe	<i>Chem.</i>	<i>Dover</i>
Harold Edwin Duston	<i>Chem.</i>	<i>Hampstead</i>
John Eastwick	<i>C. E.</i>	<i>South Tamworth</i>
Samuel Carlton Farrington	<i>Chem.</i>	<i>West Claremont</i>
Harold Bert Fosher	<i>C. E.</i>	<i>Bedford</i>
Kent Alden French	<i>M. E.</i>	<i>Exeter</i>
Roger Davis Gray	<i>Chem.</i>	<i>Dover</i>
Edward Walter Hitchcock	<i>E. E.</i>	<i>Walpole</i>
Robert William Hoitt	<i>M. E.</i>	<i>Hudson</i>
Edith Victoria Holt	<i>Arch.</i>	<i>Nashua</i>
Joseph Rudolph Jarest	<i>E. E.</i>	<i>Wilton</i>
George Downes Jefferson	<i>Chem.</i>	<i>East Rochester</i>
Gerald Earl Johnson	<i>C. E.</i>	<i>Northwood Nar.</i>
John Francis Kerwin	<i>C. E.</i>	<i>Manchester</i>
John Gaskill Kirkpatrick	<i>M. E.</i>	<i>Concord</i>
Richard Koehler	<i>Arch.</i>	<i>Manchester</i>
John Paul Kopecki	<i>E. E.</i>	<i>Exeter</i>
Joseph Felix Lampron	<i>Arch.</i>	<i>Nashua</i>
*William Stabler Law	<i>M. E.</i>	<i>Nashua</i>
Arthur Clarence Lewis	<i>C. E.</i>	<i>Manchester</i>
*Roy Charles Loeschner	<i>E. E.</i>	<i>Salem Depot</i>
Richard Charles Low	<i>C. E.</i>	<i>Derry</i>

DEGREES

NAME	COURSE	P. O. ADDRESS
Raeburn Macdonald	<i>C. E.</i>	<i>Berlin</i>
Herman Stewart Marston	<i>E. E.</i>	<i>Pepperell, Mass.</i>
Morey Charles Miles	<i>C. E.</i>	<i>Claremont</i>
Cornelius Trueman Morin	<i>C. E.</i>	<i>Derry</i>
Romeo Paul Morin	<i>M. E.</i>	<i>Manchester</i>
Trafford Mortimer Morong	<i>E. E.</i>	<i>Dover</i>
Richard Nathaniel Munsey	<i>E. E.</i>	<i>Hampton</i>
John Peter Munton	<i>M. E.</i>	<i>Nashua</i>
Theodore Alexander Nowak	<i>C. E.</i>	<i>Exeter</i>
Arthur Henry Palisoul	<i>M. E.</i>	<i>Portsmouth</i>
Richard Orrin Palmer	<i>Arch.</i>	<i>Center Ossipee</i>
*Willard Tyler Parker	<i>M. E.</i>	<i>Colebrook</i>
*Leland Mendell Partridge	<i>E. E.</i>	<i>Keene</i>
Charles Franklin Pearson	<i>Chem.</i>	<i>Portsmouth</i>
Arthur Bradford Pike	<i>Chem.</i>	<i>Melrose Hghlds., Mass.</i>
Trevor Alaric Pryce Price	<i>C. E.</i>	<i>Candia</i>
Eliot Priest	<i>E. E.</i>	<i>Nelson</i>
Jonathan Philander Ring	<i>E. E.</i>	<i>Wilton</i>
DeWitt Clarke Robinson	<i>Arch.</i>	<i>Winooski, Vt.</i>
Arthur Warren Skoog	<i>E. E.</i>	<i>Keene</i>
John Edward Smet	<i>E. E.</i>	<i>Manchester</i>
Henry Wheeler Stevens	<i>Arch.</i>	<i>Medfield, Mass.</i>
Edward Joseph Surowiec	<i>M. E.</i>	<i>Franklin</i>
Alvah Winfred Swain	<i>Arch.</i>	<i>Meredith</i>
Philip Charles Thomas	<i>E. E.</i>	<i>Claremont</i>
Keith Irvin Twitchell	<i>C. E.</i>	<i>Berlin</i>
James Bartlett Walker	<i>M. E.</i>	<i>Dover</i>
Laurance Edmund Webber	<i>M. E.</i>	<i>Berwick, Maine</i>
*John Frank Wentworth	<i>Chem.</i>	<i>Dover</i>
**Douglas Russell Woodward	<i>C. E.</i>	<i>Concord</i>

UNIVERSITY OF NEW HAMPSHIRE

BACHELOR OF ARTS

COLLEGE OF LIBERAL ARTS (63)

NAME	COURSE	P. O. ADDRESS
*Shirley Frances Barker	<i>English</i>	<i>Farmington</i>
Clyde King Blackwell	<i>English</i>	<i>Rochester</i>
Catharine Dunlap Blaisdell	<i>Philosophy</i>	<i>Lancaster</i>
Robert Francis Bruce	<i>History</i>	<i>Exeter</i>
Walter Alex'er Calderwood, Jr.	<i>Pol. Sci.</i>	<i>Nashua</i>
Delfo John Caminati	<i>Spanish</i>	<i>Portsmouth</i>
Chester Arthur Cotton	<i>English</i>	<i>Dover</i>
Irene Jane Couser	<i>English</i>	<i>Dover</i>
Evelyn Naomi Davis	<i>Psychology</i>	<i>Needham, Mass.</i>
Edward Colin Dawson	<i>English</i>	<i>Durham</i>
Benjamin Samuel Dorson	<i>Pol. Sci.</i>	<i>Keene</i>
Clesson Duke	<i>Pol. Sci.</i>	<i>Manchester</i>
William Fatylak	<i>Pol. Sci.</i>	<i>Manchester</i>
Carolyn May Files	<i>English</i>	<i>Meredith</i>
Harry Edward Flanders	<i>English</i>	<i>Danbury</i>
Christine Freese	<i>Latin</i>	<i>Bristol</i>
Priscilla Glazier	<i>English</i>	<i>Salem</i>
Thelma Evelyn Hare	<i>Psychology</i>	<i>Amherst</i>
Geraldine Winn Haywood	<i>English</i>	<i>New Castle</i>
Elizabeth Storrs Hazen	<i>English</i>	<i>Lebanon</i>
*Virginia Hamilton Hixon	<i>Philosophy</i>	<i>Lynn, Mass.</i>
Lillian Holt	<i>French</i>	<i>South Lyndeboro</i>
Helen Mainland Hope	<i>English</i>	<i>Henniker</i>
Dorothy Elizabeth Horne	<i>Latin</i>	<i>Dover</i>
Hilda Patricia Hourihane	<i>Spanish</i>	<i>Somersworth</i>
George Lawrence Jaques	<i>Pol. Sci.</i>	<i>Worcester, Mass.</i>
Ruth Virginia Johnson	<i>History</i>	<i>Portsmouth</i>
Shirley Dorothy Kamenske	<i>German</i>	<i>Nashua</i>
Sarah Taylor Knox	<i>Psychology</i>	<i>Manchester</i>
Brewster Herman Koehler	<i>Pol. Sci.</i>	<i>Manchester</i>
Helen Gertrude Ladd	<i>Latin</i>	<i>Concord</i>
Edgar Lebow	<i>Pre-Law</i>	<i>Exeter</i>
Theodora Carolyn Libbey	<i>English</i>	<i>Rochester</i>
Ruth Edith Logee	<i>Eng.</i>	<i>Manchester</i>
Elsie Margaret MacDonald	<i>Psychology</i>	<i>Peterboro</i>

DEGREES

NAME	COURSE	P. O. ADDRESS
Charles Douglas McIntyre	<i>History</i>	<i>Whitefield</i>
John Albert MacVicar	<i>History</i>	<i>Windham</i>
*Cecile Martin	<i>English</i>	<i>Lancaster</i>
Richard Abbot Martin	<i>Psychology</i>	<i>Richmond</i>
Lillianne Mathieu	<i>French</i>	<i>Manchester</i>
Wilfred Louie Morin	<i>History</i>	<i>Marlboro</i>
Marjorie Charlotte Osberg	<i>History</i>	<i>Manchester</i>
Helen Elizabeth Perkins	<i>French</i>	<i>Loudon</i>
Margery May Phillips	<i>Psychology</i>	<i>Durham</i>
Kathleen May Putney	<i>Latin</i>	<i>Durham</i>
*Terrence John Rafferty	<i>French</i>	<i>Portsmouth</i>
Margaret Irving Russell	<i>English</i>	<i>Portsmouth</i>
Ernest John Saigh	<i>English</i>	<i>Manchester</i>
Nathalie Mae Sargent	<i>History</i>	<i>Tilton</i>
Louise Josephine Shackford	<i>Psychology</i>	<i>Hudson</i>
Phyllis Louise Shorey	<i>Latin</i>	<i>Rochester</i>
Dorothy Sirhakis	<i>Spanish</i>	<i>Somersworth</i>
Helen Elizabeth Skofield	<i>History</i>	<i>New Boston</i>
Donald Huckins Smith	<i>Pre-Law</i>	<i>Lincoln</i>
Lee Stimmell	<i>Pol. Sci.</i>	<i>Pittsfield</i>
*Laura Agnes Stocker	<i>French</i>	<i>Sunapee</i>
Hollister Sturges, Jr.	<i>Pre-Law</i>	<i>Stone Ridge, N. Y.</i>
George Sweeney	<i>Pol. Sci.</i>	<i>Portsmouth</i>
Ernestine Louise Teague	<i>Psychology</i>	<i>Portsmouth</i>
Robert John Tighe	<i>Pre-Law</i>	<i>Canaan</i>
Sherman Ward Toft	<i>French</i>	<i>Exeter</i>
Ethel Tufts	<i>English</i>	<i>Manchester</i>
Virginia Wastcoat	<i>Pol. Sci.</i>	<i>Taunton, Mass.</i>

** Indicates "With High Honor" (average of 90 or above for college course).

* Indicates "With Honor" (average of 85 to 90 for college course).

UNIVERSITY OF NEW HAMPSHIRE
PROFESSIONAL DEGREES IN ENGINEERING

Everett Humphrey Alexander	<i>E. E.</i>	<i>Salem</i>
Robert Edgerly Mauricette	<i>M. E.</i>	<i>Dover</i>
Ernest Gerald Thorin	<i>M. E.</i>	<i>Dover</i>
Harry Laurence Wood	<i>E. E.</i>	<i>Providence, R. I.</i>
Robert Wilkins Hooper	<i>C. E.</i>	<i>Sanbornville</i>

TWO-YEAR CERTIFICATES

COLLEGE OF AGRICULTURE

Levi Henry Barker	<i>Stratham</i>
Winston Flanders Caldwell	<i>Dover</i>
John Thompson Fernald	<i>Nottingham</i>
David White Flagg	<i>Winchester</i>
Fred Thomas Hill	<i>East Concord</i>
Robert Cate Hill	<i>Belmont</i>
Walter Baldwin Knight, Jr.	<i>Dover</i>
Ernest Howard Odell	<i>Amherst</i>
Robert Edward Page	<i>Manchester</i>
Robert Ellwood Ricard	<i>Canaan</i>
Walter Donald Robinson	<i>Exeter</i>
Arnold Wesley Spencer	<i>Plymouth</i>
Clarence Edgar Stevens	<i>Durham</i>
Stanley Benjamin Tenney	<i>Antrim</i>
Ralph Lincoln Wheeler	<i>Wilton</i>

PRIZES AWARDED, 1934

- Bailey Prize*—JOHN FRANK WENTWORTH..... Dover
- Bartlett Prize*—GRANT LIVINGSTON DAVIS..... Hollis
- Katherine DeMeritt Memorial Prize*—JANE OLGA SLOBODZIAN,
New Haven, Conn.
- Diettrich Memorial Cup*—JANE OLGA SLOBODZIAN, New Haven, Conn.
- Erskine Mason Memorial Prize*—EDITH VICTORIA HOLT..... Nashua
- Hood All-Round Achievement Prize*—ARNOLD DENSMORE RHODES,
Lancaster
- Hood Dairy Cattle Judging Prizes:*
- First—CHARLES WILLIAM MONAHAN..... East Kingston
- Second—JOHN JAMES BAKIE..... Kingston
- Third—CLARENCE ALBERT BANFILL..... Colebrook
- American Legion Award*—DOUGLAS RUSSELL WOODWARD.... Concord
- Mask and Dagger Achievement Prize:*
- First—ELIZABETH EMMA CORRIVEAU..... Melrose, Mass.
- Second—DELFO JOHN CAMINATI..... Portsmouth
- Phi Mu Medal*—MARJORIE CHARLOTTE OSBERG..... Manchester
- Phi Sigma Prize*—ARNOLD DENSMORE RHODES..... Lancaster
- Class of 1899 Prize*—STANLEY WOOD COLBY..... West Lebanon
- Edward T. Fairchild Prize:*
- First—FREDERICK COURTNEY WILLIAMS..... Whitefield
- Second (divided)—IRENE JANE COUSER..... Dover
- DONALD LENHART FASSNACHT.... Reading, Pa.
- Psi Lambda Cup*—MILDRED MINNIE COCHRANE..... Henniker
- Alpha Chi Omega Prize*—THEODORA CAROLYN LIBBEY..... Rochester
- Alpha Xi Delta Cup*—MARY FRANCES CARSWELL..... Gorham, Me.
- Edward M. Stone Cup*—PHI ALPHA FRATERNITY
- Association of Women Students Award:*
- DOROTHY ARDELIA RICHARDSON..... Franklin
- Alpha Zeta Scholarship Cup*—EARL HAVEN TRYON..... Portland, Me.

UNIVERSITY OF NEW HAMPSHIRE

Locke Prize—ELLA MARIE YOUNG.....Whitefield

Alpha Chi Sigma Chemistry Award—JESSE BRYAN FLANSBURG

Manchester

Phi Lambda Phi Award—ALVAH WINFRED SWAIN.....Meredith

Lawrence Hill Opdycke Prizes:

ROGER DAVIS GRAY.....Dover

KENDRICK STEPHEN FRENCH.....Center Barnstead

American Association of University Women Award:

MARGERY MAY PHILLIPS.....Durham

Osgood Scholarship Plaque—TAU KAPPA EPSILON

Intercollegiate Writing Contest:

(Institutions competing: Universities of Maine, New Hampshire
and Vermont)

Essays:

First Prize—Tie, JOHN HAYDEN STARIE.....Amherst

Third Prize—ISABEL NELLIE ALDEN.....Hampton

Short Stories:

Second Prize—HELEN GERTRUDE LADD.....Concord

Third Prize—THEODORA CAROLYN LIBBEY.....Rochester

Poetry:

First Prize—SHIRLEY FRANCES BARKER.....Farmington

Third Prize—JOHN HAYDEN STARIE.....Amherst

Davis Cattle Judging Prizes for Two-year Students:

First Prize—LEVI HENRY BARKER.....Stratham

Second Prize—STANLEY BENJAMIN TENNEY.....Antrim

Third Prize—DAVID WHITE FLAGG.....Winchester

Alumni Meritorious Service Award:

CHARLES H. HOOD, '80.....Boston, Mass.

GEORGE A. PERLEY, '08.....Philadelphia, Pa.

ALBERT H. BROWN, '11.....Strafford

ROHL C. WIGGIN, '17.....Boston, Mass.

Christopher J. O'Leary, '20.....Los Angeles, Calif.

*STUDENTS, 1934-1935

ABBREVIATIONS DESIGNATING COURSES

- Agr. Ch.*—Agricultural Chemistry
Arch.—Architecture
A. G.—Arts General
Agr.—General Agriculture
Agr. Tr.—Agriculture, Teacher Training
A. H.—Animal Husbandry
C. E.—Civil Engineering
Chem.—Chemistry
D. H.—Dairy Husbandry
Educ.—Professional Education
E. E.—Electrical Engineering
Engr.—Engineering
For.—Forestry
Gen. Bus.—General Business
H. E. Ex.—Home Economics, Extension Training
H. E. I.—Home Economics, Institutional
H. E. Tr.—Home Economics, Teacher Training
Hort.—Horticulture
M. E.—Mechanical Engineering
P. H.—Poultry Husbandry
Pre-Law—Pre-Law
Pre-Med.—Pre-Medical
Pub. H.—Public Health
Soc. Ser.—Social Service
Soc. St.—Social Studies

UNIVERSITY OF NEW HAMPSHIRE

GRADUATE STUDENTS

(Men, 24; Women, 11; Total, 35)

NAME	COURSE	P.O. ADDRESS
Bingham, Harold Clinton, B.S. New Hampshire, 1933	<i>Major Education</i>	<i>Nashua</i>
Bowen, Linwood Jules, B.S. University of Maine, 1932	<i>Major Botany</i>	<i>Dover</i>
Calnan, Catherine Dorothy, B.S. New Hampshire, 1933	<i>Major Zoölogy</i>	<i>Manchester</i>
Clough, Barbara May Colby School for Girls Sorbonne	<i>Major French</i>	<i>Lebanon</i>
Colbert, Margaret Mary, B.S. Boston University, 1934	<i>Major Education</i>	<i>Melrose, Mass.</i>
Dawson, Charles Reginald, B.S. New Hampshire, 1933	<i>Major Chemistry</i>	<i>Durham</i>
Dickey, Edna Frances, B.A. New Hampshire, 1933	<i>Major History</i>	<i>Salem Depot</i>
Doe, Roger Morton, B.S. New Hampshire, 1934	<i>Major Chemistry</i>	<i>Dover</i>
Duston, Harold Edwin, B.S. New Hampshire, 1934	<i>Major Chemistry</i>	<i>Hampstead</i>
Erickson, Edward Irvin, B.S. Bates, 1928	<i>Major Education</i>	<i>Alton</i>
Gray, Rogers Davis, B.S. New Hampshire, 1934	<i>Major Chemistry</i>	<i>Dover</i>
Hangen, Emerson Grabill, A.B. Albright, 1922	<i>Major Social Studies</i>	<i>Portsmouth Navy Yard</i>
Hart, Herman Howard, B.A. New Hampshire, 1933	<i>Major French</i>	<i>Manchester</i>
Jefferson, George Downes, B.S. New Hampshire, 1934	<i>Major Education</i>	<i>E. Rochester</i>
Jeffords, Eleanor Irene, A.B. Mount Holyoke, 1934	<i>Major Education</i>	<i>Hinsdale</i>
Johnson, William Dudley, B.S. New Hampshire, 1925	<i>Major Education</i>	<i>West Newbury, Mass.</i>
Joseph, George Henry, B.S. Penn. State, 1933	<i>Major Agr. & Bio. Chemistry</i>	<i>York New Salem, Pa.</i>

GRADUATE STUDENTS

NAME	COURSE	P.O. ADDRESS
Leavitt, Harold Irving, B.S. New Hampshire, 1921	<i>Major Education</i>	<i>Durham</i>
Leland, Hollis Littlefield, B.S. New Hampshire, 1921	<i>Major Chemistry</i>	<i>Bangor, Maine</i>
Levenson, Irvin Casper, A.B. Harvard University, 1934	<i>Major Social St.</i>	<i>Cambridge, Mass.</i>
McLaughlin, Edward Joseph, A.B. Holy Cross, 1930	<i>Major French</i>	<i>Manchester</i>
Markos, Basil George, B.S. New Hampshire, 1934	<i>Major Entomology</i>	<i>Dover</i>
Miller, Flora May, B.S. Conn. Agric. College, 1920	<i>Major Education</i>	<i>Segreganset, Mass.</i>
Noonan, Evan Carter, B.S. Middlebury, 1933	<i>Major Chemistry</i>	<i>Vergennes, Vt.</i>
Nulsen, Dorothy, B.A. New Hampshire, 1932	<i>Major Zoölogy</i>	<i>Durham</i>
Ramsden, William Gladstone, B.S. Colby, 1910	<i>Major Education</i>	<i>Newfields</i>
Seymour, Raymond Benedict, B.S. New Hampshire, 1933	<i>Major Chemistry</i>	<i>Dover</i>
Shute, Kenneth, B.S. New Hampshire, 1934	<i>Major Education</i>	<i>Lancaster</i>
Smith, Willard Hammond, A.B. Dartmouth, 1927	<i>Major Social St.</i>	<i>Exeter</i>
Streeter, Caroline Merriam, B.S. New Hampshire, 1934	<i>Major Zoölogy</i>	<i>Exeter</i>
Thayer, Olive Josephine, B.S. New Hampshire, 1934	<i>Major Zoölogy</i>	<i>Epping</i>
Tingley, Mary Alberta, B.S. New Hampshire, 1933	<i>Major Horticulture</i>	<i>Durham</i>
Washburn, Howard Reynolds, A.B. Trinity, 1925	<i>Major Social St.</i>	<i>W. Lebanon, Me.</i>
Wentworth, John Frank, B.S. New Hampshire, 1934	<i>Major Chemistry</i>	<i>Dover</i>
Winkley, Estelle Elizabeth, B.E. Plymouth Normal, 1933	<i>Major French</i>	<i>Rochester</i>

UNIVERSITY OF NEW HAMPSHIRE

SENIORS

(Men, 233; Women, 86; Total, 319)

NAME	COURSE	P.O. ADDRESS
Adams, Ramona	<i>H. E. I.</i>	<i>Seabrook</i>
Allard, Harrie Martin	<i>M. E.</i>	<i>Salem Depot</i>
Allen, Warren Venson	<i>A. G.</i>	<i>Durham</i>
Andberg, Eric Waldemar	<i>Arch.</i>	<i>Concord</i>
Angwin, Harold Everett	<i>A. G.</i>	<i>Concord</i>
Ansara, Cosmo Michael	<i>A. G.</i>	<i>Lebanon</i>
Archibald, Gordon Ernest	<i>A. G.</i>	<i>Claremont</i>
Badger, Neal Moore	<i>Gen. Bus.</i>	<i>Concord</i>
Bailey, Robert Alden	<i>A. G.</i>	<i>Enfield Centre</i>
Baker, John Henry	<i>Gen. Bus.</i>	<i>Concord</i>
Baker, William Freeman, Jr.	<i>Gen. Bus.</i>	<i>Durham</i>
Baldwin, Edith Theodate	<i>A. G.</i>	<i>Manchester</i>
Baldwin, Shirley Elizabeth	<i>A. G.</i>	<i>East Kingston</i>
Ballou, James Monroe	<i>Pre-Med.</i>	<i>Keene</i>
Bannon, James Henry, Jr.	<i>Pre-Med.</i>	<i>Laconia</i>
Barker, Hiram Leighton	<i>A. G.</i>	<i>Farmington</i>
Barker, Kenneth Townsend	<i>Chem.</i>	<i>Bridgewater</i>
Barnard, Clayton Hamlin	<i>M. E.</i>	<i>Keene</i>
Barton, George Albert	<i>E. E.</i>	<i>Dover</i>
Beal, Raymond Irvin	<i>A. G.</i>	<i>Portsmouth</i>
Beale, Franklin Ambrose	<i>A. H.</i>	<i>Enfield</i>
Bell, Henry Theodore	<i>Gen. Bus.</i>	<i>Concord</i>
Bennett, William Batchelder	<i>A. G.</i>	<i>Hillsboro</i>
Bickford, Jackson Rockwell	<i>Arch.</i>	<i>Gossville</i>
Blaisdell, Kenneth Lucas	<i>E. E.</i>	<i>Goffstown</i>
Blake, Genevieve	<i>A. G.</i>	<i>Bristol</i>
Blood, Edward Johnston	<i>For.</i>	<i>Hanover</i>
Bond, Dorothy Mildred	<i>A. G.</i>	<i>Manchester</i>
Bosselait, Albert Joseph	<i>Pre-Med.</i>	<i>Greenville</i>
Brassard, Roger Paul	<i>Pre-Med.</i>	<i>Laconia</i>
Bresnahan, Ruth Mae	<i>A. G.</i>	<i>Manchester</i>
Briggs, Richard Clark	<i>Gen. Bus.</i>	<i>Amesbury, Mass.</i>
Brooks, Howard David	<i>A. G.</i>	<i>Errol</i>
Brown, Clifton Albert	<i>Hort.</i>	<i>Boscawen</i>
Brown, Heinz Gerhard	<i>A. G.</i>	<i>Durham</i>

SENIORS

NAME	COURSE	P. O. ADDRESS
Brown, Richard Elmer	<i>M. E.</i>	<i>Wentworth</i>
Burch, James Godfrey	<i>Gen. Bus.</i>	<i>Durham</i>
Burgess, Lyman Clawson	<i>Pre-Med.</i>	<i>Acworth</i>
Burns, Martha Velmer	<i>A. G.</i>	<i>Manchester</i>
Carlin, John Watt, Jr.	<i>M. E.</i>	<i>Manchester</i>
Cashman, Joseph John	<i>A. G.</i>	<i>Nashua</i>
Castello, Luigi Joseph	<i>A. G.</i>	<i>Woodsville</i>
Caswell, Philip Prentiss	<i>A. G.</i>	<i>Dover</i>
Caswell, Phyllis Ernestine	<i>A. G.</i>	<i>Laconia</i>
Caughey, Robert Adams	<i>Chem.</i>	<i>Antrim</i>
Chandler, Earle Walter	<i>Gen. Bus.</i>	<i>Bartlett</i>
Chapman, Bertha Margaret	<i>A. G.</i>	<i>Groveton</i>
Chase, Helen Esther	<i>H. E. I.</i>	<i>Penacook</i>
Clark, Eldon Caverly	<i>E. E.</i>	<i>Northwood Ridge</i>
Clarke, Thomas Matthew	<i>A. G.</i>	<i>Lawrence, Mass.</i>
Clough, Harold Albert	<i>Gen. Bus.</i>	<i>West Alton</i>
Colburn, Hazel Adair	<i>H. E. Tr.</i>	<i>Dracut, Mass.</i>
Colby, Edward William	<i>Pre-Med.</i>	<i>Londonderry</i>
Cole, Wilbur Vose	<i>A. G.</i>	<i>Durham</i>
Conner, Joseph Pease, Jr.	<i>Gen. Bus.</i>	<i>Portsmouth</i>
Corrigan, Paul William	<i>A. G.</i>	<i>Concord</i>
Cottam, Leland Bertram	<i>A. G.</i>	<i>W. Roxbury, Mass.</i>
Couture, Philip Gignac	<i>Agr.</i>	<i>Laconia</i>
Crockette, Guy	<i>A. G.</i>	<i>Durham</i>
Crowell, Lewis Williams	<i>A. G.</i>	<i>Barrington, R. I.</i>
Cummings, Elliott Staples	<i>Gen. Bus.</i>	<i>Durham</i>
Currier, Harold Fletcher	<i>A. G.</i>	<i>Sunapee</i>
Dancause, Omer Joseph	<i>Gen. Bus.</i>	<i>Greenville</i>
Darling, Theodore Everitt	<i>Gen. Bus.</i>	<i>Woodsville</i>
Davis, Grant Livingston	<i>C. E.</i>	<i>Hollis</i>
Davol, Madeleine	<i>A. G.</i>	<i>Manchester</i>
Dearborn, Curtis Howard	<i>Hort.</i>	<i>New Boston</i>
Deene, Kenneth Leslie	<i>A. G.</i>	<i>Exeter</i>
Demers, Henry	<i>A. G.</i>	<i>Manchester</i>
Densmore, Grace Evelyn	<i>A. G.</i>	<i>Atkinson</i>
DeRonde, Ralph Edwin	<i>P. H.</i>	<i>Temple</i>
DeVittori, Ernando Joseph	<i>A. G.</i>	<i>Milford</i>
Dimond, Flora May	<i>A. G.</i>	<i>Concord</i>

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NAME	COURSE	P.O. ADDRESS
Dodge, Lucretia Faxon	<i>A. G.</i>	<i>New Boston</i>
Dolloff, George Howard	<i>C. E.</i>	<i>Stratham</i>
Doyle, Mildred Linfield	<i>A. G.</i>	<i>Concord</i>
Duke, Cleon	<i>A. G.</i>	<i>Manchester</i>
Dustin, Robert Gale	<i>For.</i>	<i>Keene</i>
Eiseman, Marvin Adrian	<i>A. G.</i>	<i>Bethlehem</i>
Eiseman, Nathaniel Joseph	<i>A. G.</i>	<i>Bethlehem</i>
Ekdahl, Naomi Marguerite	<i>Pre-Med.</i>	<i>Durham</i>
Ellsworth, Clifford Clement	<i>Agr.</i>	<i>Penacook</i>
Emerson, Glendon Neil	<i>Hort.</i>	<i>Hampstead</i>
Ernst, Grace Lorene	<i>A. G.</i>	<i>Manchester</i>
Erskine, Ralph Beaumont	<i>Arch.</i>	<i>Randolph, Me.</i>
Feindel, Margaret Elizabeth	<i>A. G.</i>	<i>Berlin</i>
Felix, Margaret Harriet	<i>A. G.</i>	<i>Durham</i>
Floros, Theodore Nicholas	<i>A. G.</i>	<i>Dover</i>
Foley, David Lawrence	<i>E. E.</i>	<i>Manchester</i>
Folsom, John Bickford	<i>For.</i>	<i>West Epping</i>
Ford, Abbie Minerva	<i>A. G.</i>	<i>Exeter</i>
Fosher, Harold Bert	<i>C. E.</i>	<i>Bedford</i>
Foss, Elinor Hill	<i>A. G.</i>	<i>Northwood Center</i>
Foss, Robert Winston	<i>Arch.</i>	<i>Rochester</i>
Fox, John Trow	<i>C. E.</i>	<i>Mont Vernon</i>
French, Benjamin Jones	<i>E. E.</i>	<i>Merrimack</i>
French, Kendrick Stephen	<i>Chem.</i>	<i>Center Barnstead</i>
French, Sara Frances	<i>A. G.</i>	<i>Penacook</i>
Funston, Robert Curtis	<i>A. G.</i>	<i>Schenectady, N. Y.</i>
Furman, William Chester, Jr.	<i>A. G.</i>	<i>Manchester</i>
Furnans, Albert Dame	<i>M. E.</i>	<i>New Bedford, Mass.</i>
Gaffney, Edward Joseph	<i>Chem.</i>	<i>Nashua</i>
Gale, Edwin Kimball	<i>A. G.</i>	<i>Concord</i>
Gale, Ruth Elizabeth	<i>H. E. I.</i>	<i>Tilton</i>
Gardner, Hamilton Mason	<i>Chem.</i>	<i>Swansea, Mass.</i>
Gibson, Sidney Louis	<i>M. E.</i>	<i>Portsmouth</i>
Giffin, John Fraser	<i>A. G.</i>	<i>Wilton</i>
Glover, Elton Robert	<i>C. E.</i>	<i>Milan</i>
Goffe, Lewis Center	<i>A. G.</i>	<i>Hudson</i>
Gray, Arthur Newman	<i>A. G.</i>	<i>Errol</i>
Grenier, Emile Philippe	<i>Gen. Bus.</i>	<i>Manchester</i>

SENIORS

NAME	COURSE	P.O. ADDRESS
Grenier, France Rolande	<i>A. G.</i>	<i>Manchester</i>
Griffin, Maurice Van	<i>E. E.</i>	<i>Tilton</i>
Grinnell, Mary Barbara	<i>A. G.</i>	<i>Derry</i>
Grocott, Charles Henry	<i>A. G.</i>	<i>Nashua</i>
Grover, Norman James	<i>E. E.</i>	<i>Concord</i>
Guibord, Loring Ralph	<i>A. G.</i>	<i>Melrose, Mass.</i>
Hamm, Harold William	<i>E. E.</i>	<i>Concord</i>
Hancock, William Frederick	<i>A. G.</i>	<i>Concord</i>
Hangas, Sigrid Helen	<i>H. E.</i>	<i>New Ipswich</i>
Hansen, Carl Antonius	<i>E. E.</i>	<i>Berlin</i>
Haphey, Robert	<i>A. G.</i>	<i>Andover, Mass.</i>
Harding, George Nelson	<i>C. E.</i>	<i>Claremont</i>
Harding, Stanley Lauriston	<i>A. G.</i>	<i>Farmington</i>
Harris, Willard Robert	<i>A. G.</i>	<i>Manchester</i>
Hawkins, Frederick William	<i>Arch.</i>	<i>Troy</i>
Healy, Edward William, Jr.	<i>A. G.</i>	<i>Manchester</i>
Henderson, Laton Mitchell	<i>D. H.</i>	<i>Merrimack</i>
Henderson, Winfield John	<i>E. E.</i>	<i>Nashua</i>
Herbert, Dorothea Ames	<i>H. E. Tr.</i>	<i>Kingston</i>
Hilliard, Grace Rebecca	<i>A. G.</i>	<i>Pittsburg</i>
Hodgdon, John Goebel	<i>A. G.</i>	<i>Berlin</i>
Hooper, Edward Simpson	<i>A. G.</i>	<i>Portsmouth</i>
Hosmer, Doris Mae	<i>H. E.</i>	<i>Tilton</i>
Hough, Alfred George	<i>A. G.</i>	<i>Lebanon</i>
Howell, Frederick Gilbert	<i>Chem.</i>	<i>Berlin</i>
Isherwood, William Lea	<i>C. E.</i>	<i>Berlin</i>
Johnson, Richard Carlton	<i>Arch.</i>	<i>Antrim</i>
Jorgenson, Arthur Malcolm	<i>Hort.</i>	<i>Winthrop, Mass.</i>
Kay, Arlene Winifred	<i>A. G.</i>	<i>Dover</i>
Kearns, Kenneth Edward	<i>A. G.</i>	<i>Wolfeboro</i>
Kerr, George Elwin	<i>Agr.</i>	<i>Dover</i>
Kidder, Maurice Arthur	<i>A. G.</i>	<i>Laconia</i>
Kidder, Rita Magdalen	<i>H. E. Tr.</i>	<i>Manchester</i>
Kinnie, Cora Arlene	<i>A. G.</i>	<i>Dover</i>
Kirk, Charles Leon	<i>M. E.</i>	<i>Keene</i>
Knox, Lewis Alfred	<i>E. E.</i>	<i>Farmington</i>
Ktistes, Peter John	<i>E. E.</i>	<i>Gloucester, Mass.</i>
Lapeza, Terry Frank	<i>E. E.</i>	<i>Nashua</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Levensaler, Whitman	<i>Pre-Med.</i>	<i>Concord</i>
Libby, Lucille Henrietta	<i>A. G.</i>	<i>North Conway</i>
Little, Carroll Phillip	<i>A. G.</i>	<i>Claremont</i>
Little, Guy Clarence	<i>Gen. Bus.</i>	<i>Concord</i>
Livingstone, Annette Jane	<i>A. G.</i>	<i>Meredith</i>
Logee, Ruth Edith	<i>A. G.</i>	<i>Manchester</i>
Lucinski, William	<i>C. E.</i>	<i>Nashua</i>
Lyford, John Ellis	<i>A. G.</i>	<i>Belmont</i>
Lyon, Albert Martin	<i>A. G.</i>	<i>Dover</i>
MacArthur, Donald Ridgway	<i>A. G.</i>	<i>Amherst</i>
McDermott, William Thomas	<i>A. G.</i>	<i>Concord, Mass.</i>
MacDonald, Mervin Cumming	<i>Gen. Bus.</i>	<i>Portsmouth</i>
McGuirk, Robert Joyce	<i>A. G.</i>	<i>Dover</i>
McKiniry, Kenneth Kimball	<i>A. G.</i>	<i>Kearsarge</i>
McLaughlin, William Francis	<i>Pre-Med.</i>	<i>Manchester</i>
McLeod, Dorothy Evelyn	<i>A. G.</i>	<i>Durham</i>
McLeod, John Joseph	<i>A. G.</i>	<i>Laconia</i>
McNally, Charles Edward	<i>Pre-Med.</i>	<i>Groveton</i>
Mace, Robert Edson	<i>E. E.</i>	<i>Hampton</i>
Manning, Stanley Lester	<i>A. G.</i>	<i>Concord</i>
March, Leonard Earl	<i>A. G.</i>	<i>Nashua</i>
Marsden, Thomas Alfred, Jr.	<i>Hort.</i>	<i>Clifftondale, Mass.</i>
Marshall, Ethel Elizabeth	<i>A. G.</i>	<i>Salem Depot</i>
Marshall, Frank William	<i>A. G.</i>	<i>Center Barnstead</i>
Martel, Marjorie Ellen	<i>H. E. Tr.</i>	<i>Hanover</i>
Martel, Pauline Cecile	<i>A. G.</i>	<i>Manchester</i>
Martin, Raymond Herbert	<i>Agr. Tr.</i>	<i>Raymond</i>
Mathews, Carroll Elwyn	<i>A. G.</i>	<i>Rochester</i>
Mecklem, Elizabeth Richards	<i>A. G.</i>	<i>Durham</i>
Mellett, Earle Clayton	<i>C. E.</i>	<i>North Woodstock</i>
Merritt, Ruth Bacon	<i>A. G.</i>	<i>Manchester</i>
Michael, Edward George	<i>Pre-Med.</i>	<i>Rochester</i>
Miller, Julian Sargent	<i>A. G.</i>	<i>Haverhill, Mass.</i>
Milligan, Robert Louis	<i>A. G.</i>	<i>Manchester</i>
Mitchell, Arthur Edwin	<i>Hort.</i>	<i>Freedom</i>
Mooar, Mary Louisa	<i>A. G.</i>	<i>Manchester</i>
Moody, Frederick Rockwell	<i>Hort.</i>	<i>Penacook</i>
Moody, Marion Rena	<i>H. E. Tr.</i>	<i>Dover</i>

SENIORS

NAME	COURSE	P.O. ADDRESS
Moriarty, Maurice James	<i>A. G.</i>	<i>Durham</i>
Morrell, Barbara Annette	<i>A. G.</i>	<i>Alton</i>
Morrison, Leonard Leslie	<i>Chem.</i>	<i>Hampton Falls</i>
Morrissey, Jeremiah Richard	<i>A. G.</i>	<i>Portsmouth</i>
Morse, Arthur Arnold	<i>Gen. Bus.</i>	<i>Exeter</i>
Morse, Claude Vernon	<i>M. E.</i>	<i>Keene</i>
Murray, Fred Earl	<i>A. G.</i>	<i>Sunapee</i>
Murray, George Daniel	<i>M. E.</i>	<i>Concord</i>
Naimie, Charles Francis	<i>For.</i>	<i>Exeter</i>
Nason, Donald Biederman	<i>E. E.</i>	<i>Dover</i>
Newman, George Donald	<i>A. G.</i>	<i>Keene</i>
Norton, Richard Lunt	<i>E. E.</i>	<i>Rollinsford</i>
Nossiff, Harold Joseph	<i>A. G.</i>	<i>Dover</i>
O'Brien, Evelyn Pease	<i>A. G.</i>	<i>Belmont, Mass.</i>
O'Connor, Mary Grace Patrice	<i>A. G.</i>	<i>Berlin</i>
O'Malley, William Joseph	<i>M. E.</i>	<i>Manchester</i>
Osgood, Roger Hale	<i>A. G.</i>	<i>Nashua</i>
Osgood, William Morris	<i>A. G.</i>	<i>Pittsfield</i>
Otto, Mae	<i>Gen. Bus.</i>	<i>Rochester</i>
Overton, Louise Fitz	<i>H. E.</i>	<i>Peconic, N. Y.</i>
Paine, Philbrook	<i>A. G.</i>	<i>Durham</i>
Parker, George Irving, Jr.	<i>Gen. Bus.</i>	<i>Pawtucket, R. I.</i>
Parker, Raymond Walter	<i>Pre-Law</i>	<i>Brighton, Mass.</i>
Paulson, Ruth Alvena	<i>A. G.</i>	<i>Farmington</i>
Pearson, Georgiana	<i>H. E. I.</i>	<i>Stratham</i>
Perkins, Chester Frank	<i>Gen. Bus.</i>	<i>Laconia</i>
Perkins, Silance Lorraine	<i>H. E. I.</i>	<i>So. Sudbury, Mass.</i>
Philbrick, Kenneth Raymond	<i>M. E.</i>	<i>Rye Beach</i>
Pierce, Richard Donald	<i>A. G.</i>	<i>Goffstown</i>
Pike, Maurice Chapman, Jr.	<i>Gen. Bus.</i>	<i>Portsmouth</i>
Pitcher, Gould Simmons	<i>Arch.</i>	<i>East Rochester</i>
Prendergast, Robert Thorpe	<i>A. G.</i>	<i>Claremont</i>
Prentiss, Charles Henry	<i>A. G.</i>	<i>Lebanon</i>
Prescott, Douglass Gordon	<i>Arch.</i>	<i>Meredith</i>
Putney, Alice Helen	<i>A. G.</i>	<i>Durham</i>
Raby, Paul Gordon	<i>E. E.</i>	<i>Nashua</i>
Raduazo, Henry Fred	<i>M. E.</i>	<i>Concord</i>
Raitt, Lorraine Estelle	<i>A. G.</i>	<i>Derry Village</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Rawcliffe, Raymond Shaw	<i>Gen. Bus.</i>	<i>Concord</i>
Reardon, Kenneth Jeremiah	<i>A. G.</i>	<i>Madbury</i>
Redden, Ellen Barbara	<i>A. G.</i>	<i>Dover</i>
Reed, John Whitman	<i>A. G.</i>	<i>Claremont</i>
Reney, Everett Ralph	<i>E. E.</i>	<i>Grantham</i>
Rhome, Margaret Katherine	<i>A. G.</i>	<i>Jefferson</i>
Richards, Charles Burton	<i>P. H.</i>	<i>Plymouth</i>
Richards, Milburn Loring	<i>Arch.</i>	<i>Millinocket, Me.</i>
Richardson, Dorothy Ardelia	<i>A. G.</i>	<i>Franklin</i>
Rock, Frank Adam	<i>D. H.</i>	<i>Walpole</i>
Rogers, Warren Harley	<i>D. H.</i>	<i>Walpole</i>
Rogler, Fred Adolf	<i>A. G.</i>	<i>Manchester</i>
Rollins, Ella Louise	<i>A. G.</i>	<i>Raymond</i>
Rosen, Milton Jack	<i>C. E.</i>	<i>Portsmouth</i>
Rowbotham, Arlene Ida	<i>A. G.</i>	<i>Somersworth</i>
Rowe, Laura Frances	<i>A. G.</i>	<i>Exeter</i>
Rugg, William Alexander, Jr.	<i>Gen. Bus.</i>	<i>Atkinson</i>
Russell, Edith	<i>A. G.</i>	<i>Hazardville, Conn.</i>
St. John, Joseph Andrew	<i>A. G.</i>	<i>Suncook</i>
Salden, Arthur Harris	<i>Pre-Med.</i>	<i>Portsmouth</i>
Saliba, Moses Adib	<i>A. G.</i>	<i>Plymouth</i>
Sargent, Frank Goodwin	<i>C. E.</i>	<i>Henniker</i>
Sawyer, Henry Ryder	<i>Gen. Bus.</i>	<i>South Danbury</i>
Sawyer, Winslow Allen	<i>M. E.</i>	<i>Antrim</i>
Scanlan, John Anthony	<i>A. G.</i>	<i>Boston, Mass.</i>
Scudder, Elizabeth Hungerford	<i>A. G.</i>	<i>Durham</i>
Seavey, Donald Barker	<i>C. E.</i>	<i>Milford</i>
Seavey, Samuel Fuller	<i>A. G.</i>	<i>Rochester</i>
Shanahan, Marguerite Frances	<i>A. G.</i>	<i>Somersworth</i>
Sheldon, Thetis Petty	<i>A. G.</i>	<i>Willsboro N. Y.</i>
Slobodzian, Jane Olga	<i>A. G.</i>	<i>New Haven, Conn.</i>
Smith, Caroline Gertrude	<i>A. G.</i>	<i>Dover</i>
Snierson, Bernard Irwin	<i>A. G.</i>	<i>Laconia</i>
Sousane, George James	<i>A. G.</i>	<i>Nashua</i>
Stahl, Geraldine	<i>A. G.</i>	<i>Berlin</i>
Starie, John Hayden	<i>A. G.</i>	<i>Amherst</i>
Steffy, James Edgar	<i>A. G.</i>	<i>Providence, R. I.</i>
Stephenson, Glenn Harding	<i>A. G.</i>	<i>Derry Village</i>

SENIORS

NAME	COURSE	P.O. ADDRESS
Sterling, Lucille Helen	<i>A. G.</i>	<i>Rye</i>
Stewart, Glen William	<i>A. G.</i>	<i>East Rochester</i>
Stone, Henry Lewis	<i>A. G.</i>	<i>Haverhill, Mass.</i>
Stylianós, Thomas	<i>A. G.</i>	<i>Nashua</i>
Sulloway, Alexander Mark	<i>A. G.</i>	<i>Berlin</i>
Sweetser, Robert Coolidge	<i>A. H.</i>	<i>Greenland</i>
Taylor, Charlotte Mary	<i>A. G.</i>	<i>Lakeport</i>
Taylor, Samuel Frederick	<i>A. G.</i>	<i>Durham</i>
Telge, Harold Wadi	<i>Pre-Med.</i>	<i>Manchester</i>
Thayer, Robert Wayne	<i>A. G.</i>	<i>Berlin</i>
Thibodeau, Eva Pamela	<i>A. G.</i>	<i>Newport</i>
Thompson, Eleanor Reba	<i>A. G.</i>	<i>Berlin</i>
Thompson, Elizabeth Mary	<i>A. G.</i>	<i>Whitefield</i>
Thompson, Eunice Lucille	<i>A. G.</i>	<i>Dover</i>
Tibbetts, Robert Franklin	<i>Chem.</i>	<i>Somersworth</i>
Tobey, Margaret	<i>H.E. Tr.</i>	<i>Hampton</i>
Tobin, Arthur Robert	<i>M. E.</i>	<i>Manchester</i>
Toll, Arthur Erich	<i>A. G.</i>	<i>Manchester</i>
Toussaint, Albert Roland	<i>A. G.</i>	<i>Berlin</i>
Tower, Bertram Bailey	<i>Gen. Bus.</i>	<i>Maplewood, N. J.</i>
Towle, Ruth Elizabeth	<i>A. G.</i>	<i>Wakefield, Mass.</i>
Trow, Henry Willis	<i>Gen. Bus.</i>	<i>Sunapee</i>
Truka, Elizabeth Patricia Mary	<i>A. G.</i>	<i>Berlin</i>
Tucker, Harold Atwood	<i>A. G.</i>	<i>West Lebanon</i>
Tucker, Leland David	<i>Arch.</i>	<i>Concord</i>
Tuttle, Edward Donald	<i>A. G.</i>	<i>Laconia</i>
Tuxbury, Robert Lincoln	<i>C. E.</i>	<i>Etna</i>
Vaders, William John	<i>A. G.</i>	<i>Manchester</i>
VanderHoeff, Joseph	<i>M. E.</i>	<i>Manchester</i>
Waananen, Arvi Olavi	<i>C. E.</i>	<i>Concord</i>
Walker, Frederick Collins	<i>A. G.</i>	<i>Riverside, R. I.</i>
Wallin, Josephine Marie	<i>A. G.</i>	<i>Gossville</i>
Walter, Edna McKeown	<i>A. G.</i>	<i>W. Springfield, Mass.</i>
Webster, Sumner Stevens	<i>A. G.</i>	<i>Nashua</i>
Weeks, John Osborne	<i>A. G.</i>	<i>West Campton</i>
West, Harry	<i>Hort.</i>	<i>Freedom</i>
Weston, Ruth Louise	<i>A. G.</i>	<i>Keene</i>
Wheeler, Kenneth Theodore	<i>For.</i>	<i>Milford</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
White, Kenneth Ernest	<i>E. E.</i>	<i>Berlin</i>
White, Roland Henry	<i>A. G.</i>	<i>Lancaster</i>
Whitehead, Bernice Irene	<i>A. G.</i>	<i>Methuen, Mass.</i>
Wiitala, Matti	<i>E. E.</i>	<i>Hubbardston, Mass.</i>
Wilde, Roland Barnard	<i>E. E.</i>	<i>No. Attleboro, Mass.</i>
Wilkins, Harold Hartshorn	<i>M. E.</i>	<i>Milford</i>
Wilson, George Thomas	<i>A. G.</i>	<i>Portsmouth</i>
Winter, Mary Sibley	<i>A. G.</i>	<i>Newport</i>
Witham, Edith Harriette	<i>H. E. I.</i>	<i>Portsmouth</i>
Witham, Howard Woodward	<i>E. E.</i>	<i>Keene</i>
Witham, Ruth Louise	<i>A. G.</i>	<i>Keene</i>
Wootton, Violet Bell	<i>H. E. Tr.</i>	<i>Wolfeboro</i>
Wright, Barbara Saunders	<i>A. G.</i>	<i>Portsmouth</i>
Wright, James Morrill	<i>A. G.</i>	<i>Rochester</i>
Wright, Lemuel Dary	<i>Chem.</i>	<i>Nashua</i>
Wright, Melvin Adams	<i>E. E.</i>	<i>Keene</i>
Wytrwal, Matthew Joseph	<i>M. E.</i>	<i>So. Barre, Mass.</i>
Young, Ella Marie	<i>A. G.</i>	<i>Whitefield</i>

JUNIORS

(Men, 321 ; Women, 77 ; Total, 398)

NAME	COURSE	P.O. ADDRESS
Abbott Frank Russell	<i>A. G.</i>	<i>Peterborough</i>
Abbott, Ralph Edmund	<i>A. G.</i>	<i>Wolfeboro</i>
Ahern, Francis Thomas	<i>A. G.</i>	<i>Manchester</i>
Alden, Isabel Nellie	<i>A. G.</i>	<i>Hampton</i>
Aliapoulos, Cosmas Anastasios	<i>A. G.</i>	<i>Manchester</i>
Anderson, Robert Rettia	<i>A. G.</i>	<i>Milton Mills</i>
Arkell, Eleanor Kathleen	<i>A. G.</i>	<i>Dover</i>
Atherton, Thomas Wheelock	<i>Gen. Bus.</i>	<i>West Lebanon</i>
Avery, Donald William	<i>Chem.</i>	<i>Plymouth</i>
Baer, Arnold Maurice	<i>A. G.</i>	<i>Dover</i>
Ballard, Horace Charles	<i>Agr.</i>	<i>Penacook</i>
Barnes, Ralph Gordon	<i>A. G.</i>	<i>Chichester</i>
Barrett, Robert Gaius	<i>Chem.</i>	<i>Berlin</i>
Barton, David Calvin	<i>For.</i>	<i>Amesbury, Mass.</i>

JUNIORS

NAME	COURSE	P.O. ADDRESS
Bassett, Gordon Henry	<i>Chem.</i>	<i>Marlboro</i>
Bateman, Mary	<i>A. G.</i>	<i>No. Stratford</i>
Beamis, Robert Patrick	<i>A. G.</i>	<i>Somersworth</i>
Belyea, Byard Charles	<i>Pre-Med.</i>	<i>Dover</i>
Bent, Clarence Farrar	<i>Agr.</i>	<i>Hudson</i>
Betley, John Daniel	<i>Arch.</i>	<i>Manchester</i>
Bickford, Albert Greenlief	<i>Gen. Bus.</i>	<i>Rochester</i>
Borwick, Bessie	<i>A. G.</i>	<i>Portsmouth</i>
Boston, Eleanora Doris	<i>A. G.</i>	<i>Dover</i>
Brazel, Arline Eleanor	<i>A. G.</i>	<i>Hartford, Conn.</i>
Bronstein, Benjamin Richard	<i>Pre-Med.</i>	<i>Manchester</i>
Brown, Barbara Rand	<i>A. G.</i>	<i>Deerfield</i>
Brown, Walter Elmer	<i>For.</i>	<i>Concord</i>
Bryan, Arthur William	<i>Chem.</i>	<i>Wilton</i>
Bumford, Forrest Henry	<i>E. E.</i>	<i>Dover</i>
Bunker, Mildred Jessie	<i>H. E.</i>	<i>Kingston</i>
Burnham, William Franklin, Jr.	<i>A. G.</i>	<i>Reading, Mass.</i>
Burns, Thomas Russell, Jr.	<i>A. G.</i>	<i>Manchester</i>
Campbell, Anthony Theodore	<i>A. G.</i>	<i>W. Tisbury, Mass.</i>
Campbell, Sheffield Smith	<i>Chem.</i>	<i>Enfield</i>
Cannell, Charles Frederick	<i>A. G.</i>	<i>Lebanon</i>
Carlisle, Winnifred Abbott	<i>H. E.</i>	<i>Concord</i>
Carnegie, Esther Fisher	<i>A. G.</i>	<i>Rochester</i>
Caros, Paul Nicholas	<i>Arch.</i>	<i>Nashua</i>
Carrico, Richard Thayer	<i>M. E.</i>	<i>Pt. Washington, N. Y.</i>
Chase, Jeremiah Allen	<i>C. E.</i>	<i>Seabrook</i>
Chase, Robert Parks	<i>A. G.</i>	<i>Dover</i>
Cheever, Lewis Alton	<i>A. G.</i>	<i>Charlestown</i>
Clark, Richard Irving	<i>Gen. Bus.</i>	<i>Rochester</i>
Cochran, Robert Lee	<i>M. E.</i>	<i>Andover</i>
Colby, Byron Earle	<i>A. H.</i>	<i>West Lebanon</i>
Comolli, Joseph Frederick	<i>E. E.</i>	<i>Concord</i>
Conner, Alfred, Jr.	<i>Gen. Bus.</i>	<i>Newfields</i>
Conroy, Joseph Vincent	<i>C. E.</i>	<i>Manchester</i>
Corbett, Elizabeth Rose	<i>A. G.</i>	<i>Concord</i>
Corcoran, William Vincent	<i>A. G.</i>	<i>Manchester</i>
Cotton, Marion Smith	<i>A. G.</i>	<i>Warren</i>
Cowden, Herbert Bayley	<i>Chem.</i>	<i>Amesbury, Mass.</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Coyne, John William	<i>A. G.</i>	<i>Manchester</i>
Craig, Clark, Albert	<i>P. H.</i>	<i>Antrim</i>
Craton, Evelyn Frances	<i>A. G.</i>	<i>Hillsboro</i>
Cronin, Edward Wright	<i>Chem.</i>	<i>Needham, Mass.</i>
Crosby, Gilbert Wallace	<i>A. G.</i>	<i>Alton</i>
Currier, Edward Henry	<i>A. G.</i>	<i>Pelham</i>
Currier, Herbert Stanley	<i>A. G.</i>	<i>Pelham</i>
Cutter, Arthur Hardy	<i>For.</i>	<i>Winchester, Mass.</i>
Davenport, Ruth	<i>A. G.</i>	<i>South Danbury</i>
Davis, Earl Josiah	<i>C. E.</i>	<i>Auburn</i>
Davison, Elizabeth Ella	<i>A. G.</i>	<i>Woodsville</i>
Dearborn, Edna Lougee	<i>A. G.</i>	<i>Laconia</i>
Dodge, Mary	<i>A. G.</i>	<i>Durham</i>
Dorsey, Joseph Shepherd	<i>E. E.</i>	<i>Laconia</i>
Dow, Robert Kimball	<i>A. G.</i>	<i>Claremont</i>
Drago, Vincena Mary	<i>A. G.</i>	<i>Milford</i>
Dubois, Laurent Oscar	<i>Chem.</i>	<i>Albany</i>
Dunbar, James Brown	<i>A. G.</i>	<i>Magnolia, Mass.</i>
Durgin, Chesley Folsom	<i>Gen. Bus.</i>	<i>Newmarket</i>
Eames, Carl Ernest	<i>For.</i>	<i>Errol</i>
Eldredge, Walter Neil	<i>M. E.</i>	<i>Portsmouth</i>
Elgland, Waino William	<i>Agr.</i>	<i>West Concord</i>
Elgosin, Emid Daniel	<i>Pre-Med.</i>	<i>Whitefield</i>
Ellingwood, Cecil Frederic	<i>C. E.</i>	<i>Newport</i>
Elliott, Blanche Evelyn	<i>Gen. Bus.</i>	<i>Rumney</i>
Elliott, Robert Henry	<i>Chem.</i>	<i>Concord</i>
Emery, Walter Arthur	<i>A. G.</i>	<i>Manchester</i>
Farrington, Montgomery	<i>A. G.</i>	<i>Marblehead, Mass.</i>
Fenwick, Marston Seavey	<i>A. G.</i>	<i>Portsmouth</i>
Fish, Robert Benjamin	<i>Agr.</i>	<i>Peterborough</i>
Flansburg, Jesse Bryan	<i>A. G.</i>	<i>Manchester</i>
Foss, Edward Wilbur	<i>Agr.</i>	<i>Laconia</i>
Foster, Robert Knowlton	<i>Gen. Bus.</i>	<i>Walpole</i>
Fournier, Antoine Arthur	<i>A. G.</i>	<i>Somersworth</i>
Fowler, Doris Mary	<i>A. G.</i>	<i>Dover</i>
Frazer, James Oscar	<i>M. E.</i>	<i>Monroe</i>
Fuller, Barbara	<i>A. G.</i>	<i>Atkinson</i>
Fulton, George Lyman	<i>A. G.</i>	<i>Manchester</i>

JUNIORS

NAME	COURSE	P.O. ADDRESS
Funk, Charles William	<i>M. E.</i>	<i>Alton</i>
George, Harry Allan	<i>M. E.</i>	<i>Newton Centre, Mass.</i>
Gifford, William Herbert	<i>Pre-Med.</i>	<i>Concord</i>
Gilman, Sewell Willobé	<i>Agr. Tr.</i>	<i>Walpole</i>
Goddard, George Orsfield	<i>E. E.</i>	<i>Ashland</i>
Goldsmith, Kennard Entwistle	<i>A. G.</i>	<i>Portsmouth</i>
Goodman, Robert Alfred	<i>A. G.</i>	<i>Lebanon</i>
Goodwin, Delmar Winkley	<i>A. G.</i>	<i>Concord</i>
Goodwin, Doris Ruberta	<i>A. G.</i>	<i>Piermont</i>
Gouck, Harry Kidd	<i>Agr.</i>	<i>Andover, Mass.</i>
Gould, Thomas Dorsey	<i>Chem.</i>	<i>Manchester</i>
Grasso, Salvatore	<i>C. E.</i>	<i>Milford</i>
Gray, Leonard Walter	<i>D. H.</i>	<i>Colebrook</i>
Greene, Patrick John	<i>A. G.</i>	<i>Windham</i>
Grimes, Dorothy Jeannette	<i>A. G.</i>	<i>Dover</i>
Gritz, Edwin Dvon	<i>A. G.</i>	<i>Adams, Mass.</i>
Gwynne, Arthur Willard	<i>A. G.</i>	<i>Sunapee</i>
Haley, Shubel Carpenter	<i>E. E.</i>	<i>Dover</i>
Hall, Frederick Spaulding	<i>A. G.</i>	<i>Concord</i>
Haller, Harold	<i>A. G.</i>	<i>Dover</i>
Hamlin, Robert Gould	<i>Gen. Bus.</i>	<i>Concord</i>
Hamlin, Roland Gott	<i>A. G.</i>	<i>Manchester</i>
Hanscom, Rose Elizabeth	<i>H. E.</i>	<i>Nashua</i>
Hanson, Russell Sanborn	<i>A. G.</i>	<i>Tilton</i>
Harding, Jasper Joseph	<i>Gen. Bus.</i>	<i>West Lebanon</i>
Hastings, William Arnold Rentoul	<i>Pre-Med.</i>	<i>LaGrange, Ill.</i>
Hatch, Robert Harris	<i>A. G.</i>	<i>Dover</i>
Haubrich, Richard Tutherly	<i>Chem.</i>	<i>Claremont</i>
Hazlett, Alice Janet	<i>A. G.</i>	<i>Durham</i>
Henderson, Helen	<i>A. G.</i>	<i>Durham</i>
Herlihy, Maurice Kendall	<i>Gen. Bus.</i>	<i>Wilton</i>
Hermes, Isabelle Kretzer	<i>H. E.</i>	<i>Mystic, Conn.</i>
Hills, Charlotte Josephine	<i>A. G.</i>	<i>Mill Hall, Pa.</i>
Hodgdon, Edwin Knight	<i>A. G.</i>	<i>Epping</i>
Holmes, Mary Wright	<i>H. E.</i>	<i>Stoneham, Mass.</i>
Holt, Harmon George	<i>Chem.</i>	<i>Dover</i>
Holt, Parker Edward	<i>M. E.</i>	<i>South Lyndeboro</i>
Hooper, Henry Lloyd	<i>Agr.</i>	<i>Rochester</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Horton, George Stillman, Jr.	<i>M. E.</i>	<i>Plaistow</i>
Hough, Frank Fisher	<i>A. G.</i>	<i>Lebanon</i>
Howe, Morey Greenwood	<i>A. G.</i>	<i>Manchester</i>
Hoyt, Fred Willis, 3rd	<i>Chem.</i>	<i>Weirs</i>
Hubbard, Edward Orton	<i>Pre-Med.</i>	<i>Peterborough</i>
Huddleston, Eleanor Louise	<i>A. G.</i>	<i>Durham</i>
Hunter, Duncan Upham	<i>A. G.</i>	<i>West Claremont</i>
Isaak, Nicholas	<i>Arch.</i>	<i>Manchester</i>
Jackson, Norris Lyman	<i>For.</i>	<i>Worcester, Mass.</i>
Jeannotte, Robert Francis	<i>A. G.</i>	<i>Nashua</i>
Johnson, Charles Cleaveland	<i>A. G.</i>	<i>Dover</i>
Johnson, Milton Grant	<i>Pre-Law</i>	<i>Warren, R. I.</i>
Jones, Delmer Faunce	<i>A. G.</i>	<i>Franconia</i>
Jones, Leslie Eugene	<i>Pre-Med.</i>	<i>Goffstown</i>
Jositas, Leo Edward	<i>Arch.</i>	<i>Nashua</i>
Joslin, Charles Sumner	<i>M. E.</i>	<i>No. Attleboro, Mass.</i>
Kawasaki, Haruko Irene	<i>A. G.</i>	<i>Portsmouth</i>
Keefe, Richard Harold	<i>Pre-Law</i>	<i>Dover</i>
Keith, George Moore	<i>Hort.</i>	<i>Dover</i>
Kennon, Mary Letitia	<i>A. G.</i>	<i>Meredith</i>
Kidder, William Foster	<i>Gen. Bus.</i>	<i>New London</i>
Kimball, Wallace Larkin	<i>M. E.</i>	<i>Derry</i>
Kimball, William Richard	<i>Gen. Bus.</i>	<i>Andover, Mass.</i>
King, Harry Canney	<i>Pre-Med.</i>	<i>Dover</i>
Knight, Lawrence Wendell, Jr.	<i>A. G.</i>	<i>Concord</i>
Knight, Walter Baldwin, Jr.	<i>D. H.</i>	<i>Dover</i>
Knott, Gertrude Dorothea	<i>A. G.</i>	<i>Portsmouth</i>
Kostick, Max	<i>A. G.</i>	<i>Farmington</i>
Lamy, Robert Ernest	<i>Gen. Bus.</i>	<i>Rochester</i>
Landry, Ronaldo Aristide	<i>A. G.</i>	<i>Laconia</i>
Learnard, Arthur Trowbridge	<i>For.</i>	<i>Chester</i>
LeBel, Valmore Raymond	<i>Chem.</i>	<i>Somersworth</i>
LeRoy, Maurice Eugene	<i>Gen. Bus.</i>	<i>Stratham</i>
Levis, Samuel James, Jr.	<i>A. G.</i>	<i>Westville</i>
Locke, William Judson	<i>C. E.</i>	<i>Kittery, Maine</i>
Lombard, Everett Fisher	<i>Pre-Med.</i>	<i>Short Falls</i>
Loring, Richard Ryder	<i>Gen. Bus.</i>	<i>E. Norwalk, Conn.</i>
Low, Allan Winthrop	<i>Chem.</i>	<i>Lexington, Mass.</i>

JUNIORS

NAME	COURSE	P.O. ADDRESS
Lowther, Stephanie Dorothy	<i>A. G.</i>	<i>Manchester</i>
McCaffrey, Austin Joseph	<i>A. G.</i>	<i>Lincoln</i>
McCarthy, Daniel Francis	<i>Pre-Med.</i>	<i>Dover</i>
McCarthy, Mary Evelina	<i>A. G.</i>	<i>Manchester</i>
MacDonald, James Athanasius	<i>A. G.</i>	<i>Intervale</i>
McGivney, Ronald James	<i>A. G.</i>	<i>Berlin</i>
McIsaac, Donald Wallace	<i>A. G.</i>	<i>Concord</i>
MacKay, Earle Lester	<i>E. E.</i>	<i>Concord</i>
McLane, Clinton Averill, Jr.	<i>A. G.</i>	<i>Concord</i>
McLaughlin, Dorothy Margaret	<i>H. E.</i>	<i>Greenland</i>
McLaughlin, Natalie Agnes	<i>H. E.</i>	<i>Durham</i>
McLeod, James George	<i>A. G.</i>	<i>Laconia</i>
McNally, Robert James	<i>Chem.</i>	<i>Concord</i>
Maddock, John Thomas	<i>M. E.</i>	<i>Bradford, Mass.</i>
Magoon, Leon Ernest	<i>A. G.</i>	<i>Littleton</i>
Malone, Frank James	<i>A. G.</i>	<i>Tilton</i>
Mangurian, Genevieve Armen	<i>A. G.</i>	<i>Manchester</i>
Mannion, Richard Thomas	<i>A. G.</i>	<i>Concord</i>
Marlak, Charles	<i>A. G.</i>	<i>Durham</i>
Marshall, Warren Elmer	<i>Gen. Bus.</i>	<i>Manchester</i>
Marston, Charles Benning	<i>A. G.</i>	<i>Turners Falls, Mass.</i>
Mason, Catharine Margaretta	<i>A. G.</i>	<i>Newmarket</i>
Matthews, Thomas Vernon	<i>Pre-Med.</i>	<i>Concord</i>
Maynard, Ernest Roland	<i>Pre-Med.</i>	<i>Nashua</i>
Maynard, Nettie Alice	<i>H. E.</i>	<i>South Deerfield</i>
Melnick, Charles Harrington	<i>A. G.</i>	<i>Laconia</i>
Merriam, Philip Gardner	<i>A. G.</i>	<i>Stratford</i>
Miller, Joseph Lewis, Jr.	<i>A. G.</i>	<i>Portland, Me.</i>
Miller, Wilbur Hobart	<i>Chem.</i>	<i>Raymond</i>
Milliken, Janette Deborah	<i>A. G.</i>	<i>Freedom</i>
Mitchell, Eleanor Ruth	<i>H. E.</i>	<i>Exeter</i>
Moody, Edwin Francis	<i>A. G.</i>	<i>Lebanon</i>
Moore, Byron Harvey	<i>A. G.</i>	<i>Manchester</i>
Mower, Natalie Richardson	<i>A. G.</i>	<i>Lebanon</i>
Mullen, Francis Edward	<i>Pre-Med.</i>	<i>Newmarket</i>
Mulligan, Mary Alexine	<i>Soc. Studies</i>	<i>Dover</i>
Munson, Everett Reed	<i>Arch.</i>	<i>Concord</i>
Nangle, Thomas Paul	<i>Pre-Med.</i>	<i>Rochester</i>
Newskey, John Lewis	<i>Gen. Bus.</i>	<i>Dover</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Nixon, Robert Edward	<i>Gen. Bus.</i>	<i>Newfields</i>
Norton, Roy Carter, Jr.	<i>M. E.</i>	<i>Kittery Point, Me.</i>
Norton, William Alexander, Jr.	<i>Pre-Med.</i>	<i>Concord</i>
Nossiff, Vincent Peter	<i>Pre-Med.</i>	<i>Dover</i>
O'Neal, Roland Higginson	<i>E. E.</i>	<i>Hinsdale</i>
Ordway, Howard Eugene	<i>A. G.</i>	<i>Berlin</i>
Orgera, Louis Vincent	<i>A. G.</i>	<i>Stamford, Conn.</i>
Osgood, Elinor Storey	<i>A. G.</i>	<i>Newburyport, Mass.</i>
Osgood, Martha Phyllis	<i>A. G.</i>	<i>Pittsfield</i>
Page, Robertson	<i>A. G.</i>	<i>Concord</i>
Page, Samuel Rufus	<i>C. E.</i>	<i>Tilton</i>
Palmer, Jack Henry	<i>A. G.</i>	<i>Rochester</i>
Pariseau, Ronald Ray	<i>A. G.</i>	<i>Newport</i>
Parker, Alvin Howell	<i>A. G.</i>	<i>Attleboro, Mass.</i>
Parker, Herman Wendell	<i>Hort.</i>	<i>Exeter</i>
Parker, Richard Patterson	<i>C. E.</i>	<i>South Merrimack</i>
Parkinson, Clifford LeRoy	<i>Gen. Bus.</i>	<i>Salem</i>
Peart, Elaine Catherine	<i>A. G.</i>	<i>Derry</i>
Peart, Hilda Patricia	<i>A. G.</i>	<i>Derry</i>
Pederzani, Guy Anthony	<i>Gen. Bus.</i>	<i>Nashua</i>
Perkins, John Henry, Jr.	<i>Gen. Bus.</i>	<i>Pittsfield</i>
Perkins, Mary Emerson	<i>A. G.</i>	<i>Rye Beach</i>
Peterson, Mildred Florence	<i>A. G.</i>	<i>Portsmouth</i>
Phillips, Marjorie Stevens	<i>H. E.</i>	<i>Lynn, Mass.</i>
Phillips, Warren Abbott	<i>C. E.</i>	<i>East Candia</i>
Pike, Leslie Merton	<i>For.</i>	<i>Monroe</i>
Plummer, Clayton Robert	<i>Arch.</i>	<i>Lochmere</i>
Powers, Nancy	<i>H. E.</i>	<i>Medford, Mass.</i>
Pratt, Margaret	<i>A. G.</i>	<i>Antrim</i>
Prescott, Richard Dean	<i>Pre-Law</i>	<i>Kensington</i>
Prince, Clyde Duane	<i>C. E.</i>	<i>Andover</i>
Provost, Leo Paul	<i>Arch.</i>	<i>Manchester</i>
Putney, Rosalind Ellen	<i>A. G.</i>	<i>Hopkinton</i>
Rafferty, Helen Winifred	<i>A. G.</i>	<i>Manchester</i>
Ranchynoski, Leon Anthony	<i>A. G.</i>	<i>Nashua</i>
Raymond, Edith Madeline	<i>A. G.</i>	<i>Laconia</i>
Redfield, John Frederick	<i>E. E.</i>	<i>Dover</i>
Reed, Ralph Kelsey	<i>A. G.</i>	<i>Rutherford, N. J.</i>

JUNIORS

NAME	COURSE	P.O. ADDRESS
Richard, Robert Boyd	<i>Pre-Med.</i>	<i>Nashua</i>
Rinalducci, Edward Virginuis	<i>A. G.</i>	<i>Portsmouth</i>
Robbins, Ralph Whitney	<i>M. E.</i>	<i>Keene</i>
Roberts, Henry Edson	<i>D. H.</i>	<i>So. Royalton, Vt.</i>
Robinson, Arthur Weston, Jr.	<i>A. G.</i>	<i>Durham</i>
Robinson, James Miller	<i>Chem.</i>	<i>Antrim</i>
Rollins, Spencer Shannon	<i>A. G.</i>	<i>Laconia</i>
Rosander, Aino Alice	<i>A. G.</i>	<i>New Ipswich</i>
Rowe, Marian Evelyn	<i>A. G.</i>	<i>Exeter</i>
Rowell, Charles Irving	<i>Gen. Bus.</i>	<i>Newport</i>
Rudd, Ralph Corlies	<i>A. G.</i>	<i>Durham</i>
Sanborn, Flora	<i>H. E.</i>	<i>Brentwood</i>
Sanborn, William Henry	<i>M. E.</i>	<i>Seabrook</i>
Sargent, Ray Maxwell	<i>E. E.</i>	<i>Milford</i>
Saylor, Jeannette	<i>Soc. Ser.</i>	<i>Dover</i>
Schipper, William Fred	<i>C. E.</i>	<i>Portsmouth</i>
Schricker, Curtis Willard	<i>Chem.</i>	<i>Goffstown</i>
Seidel, Ruth Louise	<i>A. G.</i>	<i>North Salem</i>
Shannon, Clarence Philip	<i>A. G.</i>	<i>Lexington, Mass.</i>
Shapleigh, Ruth Elaine	<i>H. E.</i>	<i>Kittery, Me.</i>
Sharps, Claud William	<i>A. G.</i>	<i>Orford</i>
Shaw, Millicent Mae	<i>H. E.</i>	<i>Tilton</i>
Shea, Denis Anthony	<i>Chem.</i>	<i>Manchester</i>
Shenton, Enoch	<i>Pre-Law</i>	<i>Concord</i>
Shorey, Seth Urban	<i>Chem.</i>	<i>Lancaster</i>
Shuman, Lena	<i>A. G.</i>	<i>Dover</i>
Shuman, Richard	<i>Pre-Med.</i>	<i>Dover</i>
Silcox, Herbert Ernest	<i>Chem.</i>	<i>Durham</i>
Smiley, Paul Milton	<i>A. G.</i>	<i>Riverton, Conn.</i>
Smith, Caroline Eleanor	<i>A. G.</i>	<i>Durham</i>
Smith, Raymond	<i>Pre-Med.</i>	<i>Derry</i>
Spear, John Tolman	<i>P. H.</i>	<i>South Acworth</i>
Spear, Pauline Georgiana	<i>Pre-Med.</i>	<i>Derry</i>
Spellman, Katherine	<i>A. G.</i>	<i>Concord</i>
Stearns, Grace Mildred	<i>A. G.</i>	<i>Manchester</i>
Stevens, Lester Charles	<i>Agr.</i>	<i>Walpole</i>
Stevens, Martha Meriden	<i>H. E.</i>	<i>North Stratford</i>
Stevens, Robert Francis	<i>Hort.</i>	<i>Medfield, Mass.</i>
Stickney, Morgan Andrew	<i>M. E.</i>	<i>Plymouth</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Stone, Samuel Arthur	<i>A. G.</i>	<i>Claremont</i>
Sumner, George Harding	<i>A. G.</i>	<i>Portsmouth</i>
Swett, William Robert	<i>A. G.</i>	<i>Nashua</i>
Symonovit, Joseph William	<i>A. G.</i>	<i>Pelham</i>
Tarr, Charles Stockman	<i>C. E.</i>	<i>East Wolfeboro</i>
Tatem, James Birney, Jr.	<i>A. G.</i>	<i>Putnam, Conn.</i>
Taylor, Miriam Madelon	<i>H. E.</i>	<i>Hinsdale</i>
Tecce, Chester Horace	<i>Agr.</i>	<i>Durham</i>
Thompson, Alice Monica	<i>A. G.</i>	<i>Whitefield</i>
Thompson, Edgar Stanley	<i>Chem.</i>	<i>Laconia</i>
Thompson, Russell Earle	<i>Gen. Bus.</i>	<i>Dover</i>
Thompson, William Joseph	<i>A. G.</i>	<i>Hampton</i>
Tinker, Alvah Glidden	<i>C. E.</i>	<i>Nashua</i>
Tobin, Madelyn Frances	<i>A. G.</i>	<i>Manchester</i>
Toolin, Brendan Emmett	<i>A. G.</i>	<i>Durham</i>
Traver, Paul Carlton	<i>Agr. Tr.</i>	<i>Raymond</i>
Trowbridge, Philip Henry	<i>A. G.</i>	<i>Durham</i>
True, Robert Baxter	<i>Gen. Bus.</i>	<i>Fremont</i>
Tryon, Earl Haven	<i>For.</i>	<i>Portland, Me.</i>
Tucker, Ransom Edward	<i>Pre-Med.</i>	<i>Warren, Vt.</i>
Tuttle, Frances Evelyn	<i>H. E.</i>	<i>Peterborough</i>
Varney, Bruce	<i>P. H.</i>	<i>Stratham</i>
Villanova, Elizabeth Antoinette	<i>A. G.</i>	<i>Rochester</i>
Vitagliano, Guy Robert	<i>Chem.</i>	<i>Concord</i>
Wall, Elizabeth Ellen	<i>A. G.</i>	<i>Nashua</i>
Webster, David Kimball	<i>Pre-Med.</i>	<i>Concord</i>
Weeks, Walter Drury	<i>Hort.</i>	<i>Laconia</i>
Weir, William Franklin	<i>Gen. Bus.</i>	<i>Durham</i>
Welch, Albert Gallagher	<i>M. E.</i>	<i>Kennebunkport, Me.</i>
Welch, Carolyn Pemberton	<i>A. G.</i>	<i>Andover</i>
Welch, Norman Edward	<i>Gen. Bus.</i>	<i>Penacook</i>
Wheeler, Elmer Perley	<i>Chem.</i>	<i>Concord</i>
Wilcox, Albert Monroe	<i>A. G.</i>	<i>Effingham</i>
Wilder, Marshall Peterson	<i>A. G.</i>	<i>Peterborough</i>
Williams, Elisabeth Flora	<i>A. G.</i>	<i>Rochester</i>
Williams, George Clayton	<i>A. G.</i>	<i>Candia</i>
Wright, Dexter Charles	<i>M. E.</i>	<i>Nashua</i>
Wright, Philip Lincoln	<i>A. G.</i>	<i>Nashua</i>
Yaloff, David Nathan	<i>A. G.</i>	<i>Laconia</i>

SOPHOMORES

(Men, 270 ; Women, 115 ; Total, 385)

NAME	COURSE	P.O. ADDRESS
Adams, Virginia Lathrop	<i>A. G.</i>	<i>Swansey</i>
Allen, Jessica Duckworth	<i>A. G.</i>	<i>Springfield, Mass.</i>
Annett, Donald Archie	<i>A. G.</i>	<i>Rollinsford</i>
Annicchiarico, Mary Grace	<i>A. G.</i>	<i>Concord</i>
Anton, William Perley	<i>A. G.</i>	<i>Concord</i>
Arnfield, John Moody	<i>Gen. Bus.</i>	<i>Hampton Beach</i>
Arnold, Lloyd Carlton, Jr.	<i>M. E.</i>	<i>Manchester</i>
Atkins, Ruth Irene	<i>A. G.</i>	<i>Orford</i>
Babcock, Nancy Elizabeth	<i>A. G.</i>	<i>Durham</i>
Bailey, Philip Edwin	<i>Pre-Med.</i>	<i>Rochester</i>
Backer, Allen Alphonse	<i>A. G.</i>	<i>Nashua</i>
Barker, Edmund Lee	<i>C. E.</i>	<i>East Rindge</i>
Bartlett, Edmund Willis	<i>For.</i>	<i>Salisbury, Mass.</i>
Barton, Genella Elizabeth	<i>H. E.</i>	<i>Pittsfield</i>
Batchelder, Charles Harding, Jr.	<i>Arch.</i>	<i>Exeter</i>
Batchelder, Maynard Stone	<i>E. E.</i>	<i>Wilton</i>
Baxter, Thelma Leona	<i>H. E.</i>	<i>E. Cleveland, Ohio</i>
Beck, Marjorie Helen	<i>A. G.</i>	<i>Everett, Mass.</i>
Beebe, Radclyffe Edward	<i>Pre-Med.</i>	<i>Centre Strafford</i>
Belanger, Jeannette Marie	<i>A. G.</i>	<i>Manchester</i>
Belanger, Roger John	<i>Gen. Bus.</i>	<i>Manchester</i>
Belcher, Charles, Jr.	<i>Pre-Med.</i>	<i>East Andover</i>
Beliveau, Robert Lionel	<i>A. G.</i>	<i>Manchester</i>
Belson, Elliott Eli	<i>A. G.</i>	<i>Dover</i>
Benedick, Muriel Roberta	<i>A. G.</i>	<i>Manchester</i>
Bennett, Robert Towle	<i>A. G.</i>	<i>Northwood Ridge</i>
Bergeron, Leo Arthur	<i>Agr.</i>	<i>Nashua</i>
Bergeron, Norbert Lawrence	<i>Pre-Med.</i>	<i>Rochester</i>
Bergquist, Donald Adolph	<i>Gen. Bus.</i>	<i>Manchester</i>
Bishop, Kenneth Paul	<i>A. G.</i>	<i>Peterborough</i>
Bogaert, Joseph Raymond	<i>A. G.</i>	<i>Manchester</i>
Boulton, Frederic Henry	<i>C. E.</i>	<i>Goffstown</i>
Brady, Daniel James	<i>M. E.</i>	<i>Newmarket</i>
Bratt, Ernest Conrad Leonard, Jr.	<i>A. G.</i>	<i>Milton, Mass.</i>
Brooks, Lyman Clarence	<i>Gen. Bus.</i>	<i>Franconia</i>
Brown, Elinor Frances	<i>A. G.</i>	<i>Hampton Falls</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Brown, Frank Andrew	<i>For.</i>	<i>Hinsdale</i>
Brownell, Barbara	<i>H. E.</i>	<i>Dover</i>
Browning, Robert Weston	<i>M. E.</i>	<i>Manchester</i>
Buchan, Ronald Forbes	<i>Pre-Med.</i>	<i>Concord</i>
Buckley, Dorothy Mae	<i>A. G.</i>	<i>Plainfield</i>
Buckley, Timothy Joseph	<i>M. E.</i>	<i>Portsmouth</i>
Burns, Dorothy Frances	<i>A. G.</i>	<i>Whitefield</i>
Burns, Paul William	<i>A. G.</i>	<i>Manchester</i>
Campbell, Marguerite Shirley	<i>A. G.</i>	<i>Nashua</i>
Carlisle, Marjorie Crane	<i>H. E.</i>	<i>Concord</i>
Caron, Rachel Carmel	<i>A. G.</i>	<i>Nashua</i>
Carr, Byron Williams	<i>A. G.</i>	<i>Contoocook</i>
Carrier, Grafton Brainerd	<i>Gen. Bus.</i>	<i>Passaconaway</i>
Carrier, John Alden	<i>M. E.</i>	<i>Passaconaway</i>
Cassily, Marie Margaret	<i>A. G.</i>	<i>Dover</i>
Caverly, Lynette Shirley	<i>A. G.</i>	<i>Laconia</i>
Chandler, Constance Sceva	<i>A. G.</i>	<i>Barnstead</i>
Chase, Adele Bevelyn	<i>A. G.</i>	<i>Concord</i>
Chase, Curtis Walter	<i>Hort.</i>	<i>Rumney</i>
Chertok, Edwin Irving	<i>Gen. Bus.</i>	<i>Laconia</i>
Chodokoski, Edward Joseph	<i>C. E.</i>	<i>Berlin</i>
Churchill, Eugene Thomas	<i>A. G.</i>	<i>North Stratford</i>
Clark, Harold Jewett .	<i>E. E.</i>	<i>Nashua</i>
Clark, Roger Edwin	<i>Gen. Bus.</i>	<i>So. Hanson, Mass.</i>
Clement, Richard Walter	<i>E. E.</i>	<i>Nashua</i>
Clow, Evelyn May	<i>H. E.</i>	<i>Greenville</i>
Coffin, James Kenneth	<i>A. G.</i>	<i>Alton</i>
Collins, Leo Wendell	<i>Gen. Bus.</i>	<i>Millis, Mass.</i>
Colman, Dorothy Elizabeth	<i>A. G.</i>	<i>Rochester</i>
Colby, Vera Susie	<i>H. E.</i>	<i>Newton Junction</i>
Comerford, Edward Volney	<i>Agr.</i>	<i>Bedford</i>
Coney, Richard James	<i>Chem.</i>	<i>Bethlehem</i>
Cooperstein, Leon Isaac	<i>Gen. Bus.</i>	<i>Manchester</i>
Corson, Anne Elizabeth	<i>H. E.</i>	<i>Dover</i>
Costa, Charles Henry	<i>A. G.</i>	<i>Lawrence, Mass.</i>
Cote, Leonard Andrien	<i>Chem.</i>	<i>Deering</i>
Courage, Morris Leon	<i>Gen. Bus.</i>	<i>Milford</i>

SOPHOMORES

NAME	COURSE	P.O. ADDRESS
Craigin, Karl Francis	<i>For.</i>	<i>Dover</i>
Crandall, William Dyer	<i>Pre-Med.</i>	<i>Northwood Narrows</i>
Crawford, Edward William	<i>A. G.</i>	<i>Somersworth</i>
Crawford, Raymond Douglas	<i>A. G.</i>	<i>New London</i>
Cricenti, Nicholas Joseph	<i>C. E.</i>	<i>New London</i>
Currier, Don Osvold	<i>A. G.</i>	<i>Manchester</i>
Cutter, Albert Victor	<i>Pre-Med.</i>	<i>Pelham</i>
Dalrymple, Arthur Woodbury	<i>A. G.</i>	<i>Manchester</i>
Dancause, Lucien Alfred	<i>A. G.</i>	<i>Greenville</i>
Dane, Eleanore	<i>A. G.</i>	<i>Nashua</i>
Dane, John Preston, Jr.	<i>M. E.</i>	<i>Salem, Mass.</i>
Davis, Charles Ellsworth	<i>M. E.</i>	<i>New London</i>
Davis, Robert Charles	<i>A. G.</i>	<i>Hollis</i>
Davison, Robert Carl	<i>C. E.</i>	<i>Manchester</i>
Day, Arthur Kenneth	<i>A. G.</i>	<i>Laconia</i>
Dearborn, Doris Jeannette	<i>A. G.</i>	<i>Laconia</i>
Dickey, Barbara Ethel	<i>A. G.</i>	<i>Salem</i>
Dickie, Erlon Thomas	<i>Pre-Med.</i>	<i>East Rochester</i>
Dickie, Logan Roswell	<i>A. H.</i>	<i>New Boston</i>
Dinsmore, Beatrice	<i>A. G.</i>	<i>Candia</i>
Dodge, Ruth	<i>A. G.</i>	<i>Durham</i>
Doe, Amelia	<i>A. G.</i>	<i>Dover</i>
Dominick, Joseph John	<i>C. E.</i>	<i>Ashuelot</i>
Dondero, Mary Jacqueline	<i>A. G.</i>	<i>Portsmouth</i>
Downs, John Austin	<i>C. E.</i>	<i>New Brighton, N. Y.</i>
Drew, Prentiss James	<i>Gen. Bus.</i>	<i>Newton Highlds., Mass.</i>
Dunbar, Beverly Jean	<i>A. G.</i>	<i>Wilton</i>
Dupell, Paul Theodore	<i>Chem.</i>	<i>Reed's Ferry</i>
Dussault, William Ernest	<i>For.</i>	<i>Franklin</i>
Eastman, Richard Henry	<i>For.</i>	<i>Jefferson</i>
Eastman, William Henry	<i>C. E.</i>	<i>Springfield, Mass.</i>
Edson, George Harding	<i>A. G.</i>	<i>West Lebanon</i>
Edson, Philip Henry	<i>Pre-Law</i>	<i>West Lebanon</i>
Emerson, Rosamond Drew	<i>A. G.</i>	<i>Newmarket</i>
Emery, Winston Eugene	<i>C. E.</i>	<i>Percy</i>
Enman, Arthur LeRoy	<i>A. G.</i>	<i>Fremont</i>
Evans, George Newell	<i>Agr. Ch.</i>	<i>Rochester</i>

UNIVERSITY OF NEW HAMPSHIRE

NAME	COURSE	P.O. ADDRESS
Evans, Winston Dockham	<i>A. G.</i>	<i>Manchester</i>
Facey, William Brown	<i>Gen. Bus.</i>	<i>Manchester</i>
Farmer, William Parker	<i>M. E.</i>	<i>Manchester</i>
Feinberg, Doris	<i>Pre-Law</i>	<i>Dover</i>
Fernald, Frank Wadleigh	<i>E. E.</i>	<i>Nottingham</i>
Fernald, Mary Frances	<i>H. E.</i>	<i>Portsmouth</i>
Finn, John Joseph, Jr.	<i>Gen. Bus.</i>	<i>Newfields</i>
Fish, Ralph Milton	<i>Gen. Bus.</i>	<i>East Kingston</i>
Fisher, Barbara Hildreth	<i>A. G.</i>	<i>Antrim</i>
Flanders, Robert Algernon	<i>Gen. Bus.</i>	<i>North Haverhill</i>
Foster, Dorothy	<i>A. G.</i>	<i>Portsmouth</i>
Foster, Ruth	<i>A. G.</i>	<i>Concord</i>
Freese, Elisabeth	<i>A. G.</i>	<i>Bristol</i>
Fuller, Beatrice	<i>A. G.</i>	<i>Lancaster</i>
Furnans, Ernest William, Jr.	<i>Pre-Law</i>	<i>So. Dartmouth, Mass.</i>
Gale, Phyllis Marian	<i>A. G.</i>	<i>Tilton</i>
Galway, Richard Edward	<i>Gen. Bus.</i>	<i>Manchester</i>
Gates, Hessler Howell	<i>M. E.</i>	<i>Charlestown</i>
Geddis, Howard Alson	<i>C. E.</i>	<i>East Hebron</i>
Geno, Mary Lucretia	<i>H. E.</i>	<i>Concord</i>
Gilbert, Geraldine Goldsmith	<i>H. E.</i>	<i>North Stratford</i>
Gilson, Wallace Hale	<i>A. H.</i>	<i>Hanover</i>
Goertz, Georgia Mitchell	<i>Pre-Med.</i>	<i>Alton</i>
Goodman, Eleanor Norma	<i>A. G.</i>	<i>Portsmouth</i>
Goodwin, Curtis Leslie	<i>M. E.</i>	<i>Dover</i>
Gordon, Oscar LeRoy	<i>A. G.</i>	<i>Ashland</i>
Gordon, Samuel Lloyd	<i>For.</i>	<i>Goshen</i>
Grad, Willard Stanley	<i>A. G.</i>	<i>Meredith</i>
Granville, Gladys Hoagland	<i>A. G.</i>	<i>Madison</i>
Green, Meyer	<i>A. G.</i>	<i>Manchester</i>
Griney, Mary Gertrude	<i>H. E.</i>	<i>Rochester</i>
Grover, William Sherman	<i>Arch.</i>	<i>Dover</i>
Grupe, Wayne Stafford	<i>A. G.</i>	<i>Winchester</i>
Guillow, Chester Roy	<i>Chem.</i>	<i>Keene</i>
Guy, John Joseph	<i>Chem.</i>	<i>Lincoln</i>
Hale, Rachel Eula	<i>H. E.</i>	<i>East Rindge</i>
Halladay, Dorothy Elizabeth	<i>H. E.</i>	<i>Claremont</i>

SOPHOMORES

NAME	COURSE	P.O. ADDRESS
Hance, Mary Lou	<i>H. E.</i>	<i>East Orange, N. J.</i>
Handschumaker, Dora	<i>A. G.</i>	<i>Manchester</i>
Hanus, Barbara Agnes	<i>H. E.</i>	<i>Concord</i>
Hargraves, Robert Frederick	<i>C. E.</i>	<i>Concord</i>
Hawkins, Wendell Francis	<i>Chem.</i>	<i>Troy</i>
Hayes, Edward Henry	<i>A. G.</i>	<i>Dover</i>
Hayes, Gordon Merritt	<i>E. E.</i>	<i>Dover</i>
Hazen, Pauline Ellen	<i>H. E.</i>	<i>Bethlehem</i>
Hazzard, David Henry	<i>E. E.</i>	<i>Berlin</i>
Heard, Emily Thompson	<i>A. G.</i>	<i>Center Sandwich</i>
Heins, George Deitz	<i>E. E.</i>	<i>Willow Grove, Pa.</i>
Hemm, Carl Otto	<i>A. G.</i>	<i>Colebrook</i>
Henson, Dayton Mace	<i>Agr.</i>	<i>Winchester</i>
Hersey, Elizabeth Winthrop	<i>A. G.</i>	<i>Wolfboro</i>
Hickey, John Lucas	<i>Pre-Med.</i>	<i>Lancaster</i>
Hickey, Joseph William	<i>Chem.</i>	<i>East Rochester</i>
Hixon, Elizabeth Webster	<i>H. E.</i>	<i>Lynn, Mass.</i>
Hobbs, John Raymond	<i>For.</i>	<i>Somersworth</i>
Holbrook, Marion Elizabeth	<i>A. G.</i>	<i>West Warwick, R. I.</i>
Holt, Willard Kingsbury	<i>E. E.</i>	<i>Milford</i>
Hooper, Carol	<i>H. E.</i>	<i>Sanbornville</i>
Hopps, VanBuren Fredrick	<i>A. G.</i>	<i>Groveton</i>
Hosmer, Berkeley	<i>A. G.</i>	<i>Tamworth</i>
Hosmer, Gaylord Darling	<i>Pre-Med.</i>	<i>Tilton</i>
Houghton, Walter	<i>A. G.</i>	<i>New Boston</i>
Hoxie, Wilbar Marden	<i>Arch.</i>	<i>Plaistow</i>
Huble, Barbara Edith	<i>A. G.</i>	<i>Exeter</i>
Huntington, Everett Curtis	<i>A. G.</i>	<i>Gorham</i>
Hurd, William Bromley, Jr.	<i>A. G.</i>	<i>Raymond</i>
Huse, James Austin	<i>Chem.</i>	<i>Durham</i>
Hyrk, Alma Lydia	<i>A. G.</i>	<i>East Jaffrey</i>
Jacques, Leo Charles	<i>Pre-Med.</i>	<i>Somersworth</i>
Janvrin, Dorothy Leavitt	<i>A. G.</i>	<i>Seabrook</i>
Johnson, Edgar Norman	<i>Pre-Med.</i>	<i>Milford</i>
Johnson, Floris Lucille	<i>A. G.</i>	<i>Alstead</i>
Johnson, Frederick Herbert	<i>Chem.</i>	<i>Dover</i>
Johnson, Philip Edward	<i>C. E.</i>	<i>Milan</i>

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Johnson, Robert Edward	A. G.	Portsmouth
Johnson, Ruth Sherman	A. G.	Plaistow
Johnson, Vance McWain	A. G.	Concord
Jokinen, Weikko	A. G.	Newport
Jordan, Barbara Colby	A. G.	Plainfield
Karazia, Charles Alfred	Gen. Bus.	Pt. Washington, N. Y.
Karkavelas, Paul George	A. G.	Dover
Kay, Ruth Elizabeth	H. E.	Dover
Kelley, Ruth Bettina	A. G.	New Hampton
Kendall, Harry Alburn	A. G.	West Thornton
Kennedy, Frances Hopkins	H. E.	Danielson, Conn.
Kimball, Howard Ray	A. G.	North Haverhill
Kimball, Maurice Charles	A. G.	Concord
Kirby, Joseph Bernard, Jr.	Pre-Med.	Goffstown
Kramer, Howard Gray	For.	Ossipee
Lambert, Robert Roger	A. G.	Manchester
Lampesis, Peter Theodore	Pre-Med.	Dover
Lang, Annie Frances	A. G.	Durham
Lang, Benjamin Roger	Gen. Bus.	Onset, Mass.
Laramie, Kenneth Norman	Gen. Bus.	Canaan
Leavitt, James Knowles	E. E.	North Hampton
Lekesky, Benjamin Anthony	C. E.	Worcester, Mass.
Lennon, Mary Elizabeth Gillett	A. G.	Dover
Levine, Noah Moses	Pre-Med.	Chelsea, Mass.
Lewis, Alvin Howard	A. G.	Portsmouth
Lilly, Avalon Robert	A. G.	Manchester
Link, Howard Charles	C. E.	Southington, Conn.
Littlefield, George Martin, Jr.	Chem.	Hampstead
Locke, Howard Revere, Jr.	A. G.	Amherst
Lockwood, Paul Francis	A. G.	Dover
Long, Avarad Chipman	For.	Hampton
MacAulay, John Joseph	Pre-Med.	Concord
McCormack, Stewart Vernon	Pre-Med.	Milford
McDonough, Augustin Thomas	Gen. Bus.	Manchester
McEvoy, Weston Ernest	A. G.	Henniker
McIninch, Geraldine	A. G.	Manchester
McKean, Glen Wilson	A. G.	Haverhill
McLaughlin, Eileen Rita	A. G.	Laconia

SOPHOMORES

NAME	COURSE	P.O. ADDRESS
McLean, Alexander Fiske	<i>Chem.</i>	<i>Larchmont, N. Y.</i>
MacQueen, George	<i>E. E.</i>	<i>Penacook</i>
Madison, Eugene Wilson	<i>C. E.</i>	<i>New Ipswich</i>
Mahony, Mary Eileen	<i>A. G.</i>	<i>Manchester</i>
Mahony, John Patrick	<i>Pre-Med.</i>	<i>Manchester</i>
Mallis, Constantine	<i>A. G.</i>	<i>Berlin</i>
Manchester, Karl Robert	<i>A. G.</i>	<i>Providence, R. I.</i>
Manchester, Winslow	<i>A. G.</i>	<i>Manchester</i>
Mangold, John William	<i>E. E.</i>	<i>Watertown, Mass.</i>
Marcy, Gloria Brigden	<i>A. G.</i>	<i>Hillsboro</i>
Martin, Ida Mary	<i>A. G.</i>	<i>Hudson</i>
Matthews, William Roland	<i>A. G.</i>	<i>Troy</i>
Mattice, Edson Russell	<i>Gen. Bus.</i>	<i>Penacook</i>
Mead, Mary Ella	<i>A. G.</i>	<i>Bartlett</i>
Meeker, George Henry	<i>Gen. Bus.</i>	<i>Durham</i>
Merrill, H. Douglas	<i>C. E.</i>	<i>Concord</i>
Merrill, Herbert Thompson	<i>A. G.</i>	<i>Hanover</i>
Messer, Richard Edwin	<i>A. G.</i>	<i>New London</i>
Miller, Belle	<i>A. G.</i>	<i>Charlestown</i>
Mirey, Walter Leon, Jr.	<i>A. G.</i>	<i>Ashburnham, Mass.</i>
Mitchener, Allan Edward	<i>A. G.</i>	<i>Fremont</i>
Monroe, Norma	<i>A. G.</i>	<i>Taunton, Mass.</i>
Moore, Leonard Smith	<i>M. E.</i>	<i>Milford</i>
Morrill, Harry Eugene	<i>Chem.</i>	<i>Winnipisaukee</i>
Morrill, Laurence Blake	<i>For.</i>	<i>Concord</i>
Morrison, Jeremy	<i>A. G.</i>	<i>Derry</i>
Moscardini, Arthur Aldo	<i>M. E.</i>	<i>Tilton</i>
Moulton, Lewis Harvey	<i>For.</i>	<i>Moultonboro</i>
Mountain, Harold Shirley	<i>For.</i>	<i>Berlin</i>
Munger, Helen Elizabeth	<i>A. G.</i>	<i>Franklin</i>
Musgrove, Frank Richard	<i>Gen. Bus.</i>	<i>Hanover</i>
Munton, Alexander Vincent	<i>Chem.</i>	<i>Nashua</i>
Nathanson, Joseph	<i>A. G.</i>	<i>Millis, Mass.</i>
Nawoj, Thaddeus	<i>Chem.</i>	<i>Tilton</i>
Norris, Kenneth Ricker	<i>A. G.</i>	<i>Melrose, Mass.</i>
Nottenburg, Alfred	<i>A. G.</i>	<i>Manchester</i>
Nye, George Prescott	<i>Chem.</i>	<i>Atkinson</i>

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O'Brien, Frank Edwin	<i>A. G.</i>	<i>Concord</i>
O'Neil, Paul Thomas	<i>E. E.</i>	<i>Amesbury, Mass.</i>
Osborne, Clifford Melvin	<i>C. E.</i>	<i>Gossville</i>
Paige, Margaret	<i>A. G.</i>	<i>North Weare</i>
Parker, Holmes	<i>Gen. Bus.</i>	<i>Littleton</i>
Parsons, Carl Ellsworth, Jr.	<i>Chem.</i>	<i>Weymouth, Mass.</i>
Pearsons, Janice Mae	<i>Pre-Med.</i>	<i>Hill</i>
Pease, Chester Chapin, Jr.	<i>C. E.</i>	<i>Greenville</i>
Peavey, Estelle Gilman	<i>A. G.</i>	<i>Exeter</i>
Petrie, William Charles	<i>Pre-Law</i>	<i>Woodsville</i>
Peysler, Charles Samuel	<i>Gen. Bus.</i>	<i>Portsmouth</i>
Phinney, John Arthur	<i>Chem.</i>	<i>Hollywood, Calif.</i>
Pickett, Madlon F.	<i>A. G.</i>	<i>Newport</i>
Pickford, Walter John	<i>E. E.</i>	<i>Berlin</i>
Pierce, Donald Vittum	<i>For.</i>	<i>Tamworth</i>
Plumer, William Bowdoin	<i>A. G.</i>	<i>Bristol</i>
Plummer, Roger William, Jr.	<i>Agr. Tr.</i>	<i>Hopkinton</i>
Pratt, Richard Gile	<i>Arch.</i>	<i>Manchester</i>
Prince, Frances	<i>H. E.</i>	<i>New Boston</i>
Prince, Ruth	<i>H. E.</i>	<i>Andover</i>
Quadros, James Gerard	<i>Gen. Bus.</i>	<i>Gloucester, Mass.</i>
Quinn, Margaret Ann	<i>A. G.</i>	<i>Manchester</i>
Redman, William Stewart	<i>Pre-Law</i>	<i>Manchester</i>
Reid, Dorothy Mae	<i>H. E.</i>	<i>Bethlehem</i>
Remick, Roland Arthur	<i>A. G.</i>	<i>Bristol</i>
Richards, Olive Jeannette	<i>A. G.</i>	<i>Exeter</i>
Ring, Frances Elizabeth	<i>H. E.</i>	<i>Wilton</i>
Robbins, William Parks	<i>A. G.</i>	<i>Portsmouth</i>
Roberts, Hall Scott	<i>Pre-Law</i>	<i>Dover</i>
Roberts, Olive Carolyn	<i>H. E.</i>	<i>So. Royalton, Vt.</i>
Roberts, Ormond Armstrong	<i>Agr.</i>	<i>Dover</i>
Robinson, Chester Stanley	<i>M. E.</i>	<i>Suncook</i>
Robinson, William Frederick	<i>Gen. Bus.</i>	<i>Durham</i>
Rogean, Arnold Hugh	<i>Hort.</i>	<i>Tilton</i>
Rogers, Edward Macaulay	<i>A. G.</i>	<i>Everett, Mass.</i>
Rogers, Zygmond Joseph	<i>Arch.</i>	<i>Amesbury, Mass.</i>
Rollins, Edmund John	<i>A. G.</i>	<i>Winnegance, Me.</i>

SOPHOMORES

NAME	COURSE	P.O. ADDRESS
Romanovski, Genevieve Leokade	<i>A. G.</i>	<i>Hudson</i>
Rose, William Richard	<i>A. G.</i>	<i>Portsmouth</i>
Rosen, Bernard Davis	<i>Chem.</i>	<i>Portsmouth</i>
Rosi, Albert Joseph	<i>Pre-Med.</i>	<i>Colebrook</i>
Ross, Charles Elden	<i>P. H.</i>	<i>Berlin</i>
Ross, James Otis	<i>For.</i>	<i>E. Barrington</i>
Rowe, Emma Pearl	<i>A. G.</i>	<i>Exeter</i>
Rozamus, Michael Joseph	<i>Gen. Bus.</i>	<i>Manchester</i>
Sanborn, Donald Rundlett	<i>C. E.</i>	<i>Epping</i>
Sanborn, Priscilla Louise	<i>A. G.</i>	<i>Manchester</i>
Sanborn, Winifred	<i>Pre-Med.</i>	<i>Contoocook</i>
Sanders, John Frank	<i>A. G.</i>	<i>Lakeport</i>
Sands, Barbara Winder	<i>A. G.</i>	<i>Newmarket</i>
Saunders, John Joseph	<i>Gen. Bus.</i>	<i>Somerville, Mass.</i>
Scannell, Leo Robert	<i>A. G.</i>	<i>Manchester</i>
Seamans, Roger Albert	<i>M. E.</i>	<i>Newport</i>
Segole, Andrew Alexander	<i>A. G.</i>	<i>West Lebanon</i>
Shanahan, Ann Dorothea	<i>A. G.</i>	<i>Somersworth</i>
Shaw, Donald Adrian	<i>A. G.</i>	<i>Sandwich</i>
Shaw, Wyman Brown	<i>Pre-Med.</i>	<i>Dover</i>
Simpson, Allan Haines	<i>M. E.</i>	<i>Lakeport</i>
Sleeper, Millicent Ethel	<i>A. G.</i>	<i>Sunapee.</i>
Smart, Robert Allan	<i>M. E.</i>	<i>Portsmouth</i>
Smith, Clyde Reverdy	<i>C. E.</i>	<i>New London</i>
Smith, Howard Weedon	<i>A. G.</i>	<i>Greenville</i>
Smith, Paul Ainsworth	<i>A. G.</i>	<i>Concord</i>
Staniszewski, Walter Paul	<i>A. G.</i>	<i>Middletown, Conn.</i>
Stead, George Owen	<i>Pre-Med.</i>	<i>New London, Conn.</i>
Stevens, Clarence Edgar	<i>Agr.</i>	<i>Durham</i>
Stevens, Jean Woodrow	<i>H. E.</i>	<i>Derry</i>
Stevens, Robert Alwin	<i>Agr.</i>	<i>Raymond</i>
Stevens, Wayne Osburn	<i>A. G.</i>	<i>Auburn, Me.</i>
Stewart, Donald Waring	<i>Hort.</i>	<i>Larchmont, N. Y.</i>
Stone, Josephine Bachelder	<i>H. E.</i>	<i>Claremont</i>
Sudsbury, Ruth Eleanor	<i>H. E.</i>	<i>Hudson</i>
Sullivan, Jeremiah Francis	<i>A. G.</i>	<i>Portsmouth</i>
Sullivan, Robert Edward	<i>For.</i>	<i>Concord</i>

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Swidzinski, Edmund	<i>C. E.</i>	<i>Quincy, Mass.</i>
Taylor, Roland Arthur	<i>Hort.</i>	<i>Bennington</i>
Taylor, William Earl	<i>A. G.</i>	<i>Melrose, Mass.</i>
Teeri, Arthur Eino	<i>Pre-Med.</i>	<i>Durham</i>
Thayer, Martha Louise	<i>A. G.</i>	<i>Woodsville</i>
Theberge, Mary Ellen	<i>H. E.</i>	<i>Salmon Falls</i>
Thompson, Frank Dillon	<i>Pre-Med.</i>	<i>Pittsfield</i>
Thompson, William James	<i>Pre-Med.</i>	<i>Manchester</i>
Tinker, Rebecca Irene	<i>H. E.</i>	<i>Nashua</i>
Tomkinson, Stanley Everest	<i>M. E.</i>	<i>Lebanon</i>
Tower, Ruth	<i>A. G.</i>	<i>Lexington, Mass.</i>
Towers, Richard Rutfred	<i>C. E.</i>	<i>Berlin</i>
Trickey, Gertrude May	<i>A. G.</i>	<i>Alton Bay</i>
Trubenbach, Alfred Chas. Eugene	<i>A. G.</i>	<i>New York City</i>
Tufts, Lewis Everette	<i>Chem.</i>	<i>Manchester</i>
Twyon, Donald Edward	<i>A. G.</i>	<i>Claremont</i>
Vangos, Demetrius Christos	<i>P. H.</i>	<i>Hudson</i>
Varney, Fred Maurice	<i>Gen. Bus.</i>	<i>Dover</i>
Verville, Homer Anthony	<i>A. G.</i>	<i>Concord</i>
Vier, Dwayne Trowbridge	<i>Chem.</i>	<i>Dover</i>
Wageman, Frank Antonio	<i>Pre-Med.</i>	<i>Manchester</i>
Waldo, Stanley Chedel	<i>M. E.</i>	<i>Laconia</i>
Walker, Genevieve Raycraft	<i>Pre-Med.</i>	<i>Tilton</i>
Wallace, Oliver Pagan	<i>For.</i>	<i>Claremont</i>
Warren, Priscilla	<i>A. G.</i>	<i>Portsmouth</i>
Weatherby, Albert Martin, Jr.	<i>M. E.</i>	<i>Newburyport, Mass.</i>
Weaver, Edwina Merrie	<i>A. G.</i>	<i>Concord</i>
Webb, Walter Morton	<i>A. G.</i>	<i>Newmarket</i>
Webster, Peter Walker	<i>E. E.</i>	<i>Concord</i>
Weeks, Robert Edgar	<i>Chem.</i>	<i>Hinsdale</i>
Wellman, Muriel Justine	<i>A. G.</i>	<i>Durham</i>
Wells, Willard Colgate	<i>Pre-Law</i>	<i>Portsmouth</i>
Wentworth, Carleton McIntire	<i>Gen. Bus.</i>	<i>Nashua</i>
Westfall, Lillian Jane	<i>A. G.</i>	<i>Bristol</i>
Wheeler, Dorothy Eloise	<i>A. G.</i>	<i>Portsmouth</i>
White, Ruth Mildred	<i>H. E.</i>	<i>Concord</i>
Whitehouse, Darwin Bion	<i>Gen. Bus.</i>	<i>Goffstown</i>

FRESHMEN

NAME	COURSE	P.O. ADDRESS
Wilbur, Herbert Eugene	<i>M. E.</i>	<i>Durham</i>
Wilcox, Louis Hersey	<i>For.</i>	<i>Center Ossipee</i>
Williams, Mary Kathleen	<i>H. E.</i>	<i>Manchester</i>
Wilson, William Glenford	<i>A. G.</i>	<i>South Barnstead</i>
Winn, Alden Lewis	<i>E. E.</i>	<i>Portsmouth</i>
Wise, Charles William	<i>Pre-Med.</i>	<i>Goffstown</i>
Wiseman, Israel	<i>Pre-Med.</i>	<i>Dover</i>
Witter, Vincent Michael	<i>A. G.</i>	<i>Berlin</i>
Woodbury, Jane Wealthy	<i>A. G.</i>	<i>Salem Center</i>
Woodward, Philip Leonard	<i>Gen. Bus.</i>	<i>Walpole</i>
Wootton, Margaret Bell	<i>A. G.</i>	<i>Wolfeboro</i>
Wright, Edward Nelson	<i>E. E.</i>	<i>Portsmouth</i>
Wright, Franklin Tvept	<i>Pre-Law</i>	<i>Charlestown</i>
Wyman, Edgar Pitkin	<i>For.</i>	<i>Somerville, Mass.</i>
Zane, Edna Elizabeth-Ann	<i>Pre-Med.</i>	<i>Exeter</i>

FRESHMEN

(Men, 304; Women, 119; Total, 423)

NAME	COURSE	P.O. ADDRESS
Abramson, Samuel Gordon	<i>Pre-Law</i>	<i>Berlin</i>
Agle, Maxine Eltrude	<i>A. G.</i>	<i>Belmont</i>
Ahearne, William Joseph	<i>A. G.</i>	<i>Lynn, Mass.</i>
Ahern, Robert Patrick	<i>D. H.</i>	<i>Charlestown</i>
Albee, Eleanor	<i>A. G.</i>	<i>Littleton</i>
Aldrich, Martha Helen	<i>H. E.</i>	<i>Lisbon</i>
Anderson, William Ayrton	<i>C. E.</i>	<i>Sunapee</i>
Armstrong, Florence Catherine	<i>H. E.</i>	<i>Penacook</i>
Astle, Edwin George, Jr.	<i>A. G.</i>	<i>Whitefield</i>
Atherton, Sumner Edward	<i>Gen. Bus.</i>	<i>West Lebanon</i>
Atwood, Harry Hibbard, Jr.	<i>Agr. Ch.</i>	<i>Pelham</i>
Baker, Ruth Helen	<i>A. G.</i>	<i>East Kingston</i>
Balloch, James Pardon	<i>M. E.</i>	<i>Manchester</i>
Barnes, Gertrude	<i>A. G.</i>	<i>Billerica, Mass.</i>
Barney, Fred Mason Butler	<i>Pre-Med.</i>	<i>Rutland, Vt.</i>
Bartlett, Edson Orlando	<i>C. E.</i>	<i>South Tamworth</i>
Bartlett, George Henry	<i>A. G.</i>	<i>Grasmere</i>

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Batchelder, James Henry	<i>Chem.</i>	<i>North Woodstock</i>
Battin, Richard, 3rd	<i>Pre-Med.</i>	<i>Whitestone, N. Y.</i>
Bazzocchi, Anthony	<i>Gen. Bus.</i>	<i>Portsmouth</i>
Bennett, Adellman Sylvester	<i>Gen. Bus.</i>	<i>Gilmanton Iron Works</i>
Bennett, Wendell Farrar	<i>Pre-Med.</i>	<i>Kingston</i>
Berg, Leo Irving	<i>A. G.</i>	<i>Chelsea, Mass.</i>
Berry, John Isaac	<i>Gen. Bus.</i>	<i>Rochester</i>
Berry, Joseph Ford	<i>For.</i>	<i>Wayne, Me.</i>
Bertagna, Caesar Joseph	<i>E. E.</i>	<i>Wilmot</i>
Bialon, Mildred Antoinette	<i>A. G.</i>	<i>Manchester</i>
Biathrow, Arlene Winona	<i>A. G.</i>	<i>Hanover</i>
Blunt, Walton William, Jr.	<i>Gen. Bus.</i>	<i>Atkinson</i>
Boerker, Huldah Irene	<i>A. G.</i>	<i>Kingston, N. Y.</i>
Boggis, Virginia May	<i>A. G.</i>	<i>Concord</i>
Boisclair, Alfred George	<i>Pre-Med.</i>	<i>Franklin</i>
Bond, Richard Guy	<i>C. E.</i>	<i>Bartlett</i>
Boothroyd, Charlotte Ellen	<i>A. G.</i>	<i>Woodsville</i>
Boucher, Arnold Eugene	<i>E. E.</i>	<i>Nashua</i>
Bowles, Barbara	<i>A. G.</i>	<i>Franconia</i>
Braconier, Harry Erland	<i>Pre-Med.</i>	<i>Brockton, Mass.</i>
Branch, Oliver Winslow, Jr.	<i>A. G.</i>	<i>Manchester</i>
Breck, Warren Grover	<i>Chem.</i>	<i>Wentworth</i>
Brochu, Arthur Victor	<i>Gen. Bus.</i>	<i>Concord</i>
Brock, Olive Louise	<i>A. G.</i>	<i>Haverhill, Mass.</i>
Brooks, Myldred Malvinia	<i>A. G.</i>	<i>Portsmouth</i>
Brown, Ellen Elizabeth	<i>A. G.</i>	<i>Center Strafford</i>
Brown, Janet Bates	<i>A. G.</i>	<i>Manchester</i>
Brown, Laurence Charles	<i>Pre-Med.</i>	<i>Hollis</i>
Brown, Ruth Duchesne	<i>A. G.</i>	<i>Manchester</i>
Bulfinch, Kent Robert	<i>M. E.</i>	<i>Suncook</i>
Bullock, Comfort	<i>H. E.</i>	<i>Concord</i>
Bunker, Kenneth Merrill	<i>A. G.</i>	<i>Durham</i>
Burnett, John Robert	<i>A. G.</i>	<i>Concord</i>
Butterfield, Waldo Keith	<i>Agr. Ch.</i>	<i>Raymond</i>
Caldwell, Winston Flanders	<i>M. E.</i>	<i>Dover</i>
Caron, Charles Ansel	<i>Pre-Med.</i>	<i>Kennebunkport, Me.</i>
Carrico, Edward Channing	<i>Gen. Bus.</i>	<i>Pt. Washington, N. Y.</i>

FRESHMEN

NAME	COURSE	P.O. ADDRESS
Carrier, Paul Simpson, Jr.	<i>A. G.</i>	<i>Albany</i>
Carroll, Kathryn Rita	<i>A. G.</i>	<i>Nashua</i>
Carter, Raymond Howard	<i>E. E.</i>	<i>Lebanon</i>
Cassidy, Charles Henry	<i>A. G.</i>	<i>Portsmouth</i>
Caswell, Gordon Alpheus	<i>A. G.</i>	<i>Berwick, Me.</i>
Ceriello, James Michael	<i>A. G.</i>	<i>Concord</i>
Chamberlin, Phineas Arthur	<i>A. G.</i>	<i>North Haverhill</i>
Chandler, Alfred George	<i>Pre-Med.</i>	<i>Candia</i>
Chase, Jane Louisa	<i>H. E.</i>	<i>Berlin</i>
Chellis, Ruth Watkins	<i>A. G.</i>	<i>Meriden</i>
Cheney, John	<i>Chem.</i>	<i>Manchester</i>
Civello, Charles Whitney	<i>Pre-Law</i>	<i>Yonkers, N. Y.</i>
Clark, Carl Philip	<i>E. E.</i>	<i>West Lebanon</i>
Clark, Richard Frederick	<i>E. E.</i>	<i>Nashua</i>
Clement, Robert Otis	<i>A. G.</i>	<i>Nashua</i>
Cling, Mordecai	<i>Pre-Med.</i>	<i>Concord</i>
Clough, Lawrence Albert	<i>Chem.</i>	<i>Pike</i>
Colokathis, Paul Peter	<i>Pre-Law</i>	<i>Dover</i>
Congdon, Myrtle Irene	<i>A. G.</i>	<i>Lancaster</i>
Conrad, James Dignum	<i>For.</i>	<i>Saugus, Mass.</i>
Conroy, Philip John	<i>Pre-Med.</i>	<i>Center Strafford</i>
Cooper, Esther Blanche	<i>H. E.</i>	<i>Lincoln</i>
Cotton, Charles Allen	<i>For.</i>	<i>Conway</i>
Covieo, Everett Anthony	<i>A. G.</i>	<i>Colebrook</i>
Cudhea, Lois Eleanor	<i>H. E.</i>	<i>Nashua</i>
Cullen, John William	<i>Gen. Bus.</i>	<i>Portsmouth</i>
Cullis, Robert Edward	<i>Gen. Bus.</i>	<i>Epping</i>
Cummings, Robert Thorndyke	<i>A. G.</i>	<i>Exeter</i>
Currier, Robert Francis	<i>Chem.</i>	<i>Manchester</i>
Dalbec, Stanley Clough	<i>Chem.</i>	<i>Contoocook</i>
Damon, John Keenan	<i>Gen. Bus.</i>	<i>W. Concord, Mass.</i>
Dana, Francis Hazen	<i>M. E.</i>	<i>Sunapee</i>
Davenport, Alice Whipple	<i>A. G.</i>	<i>South Danbury</i>
Davis, Cecil Parker	<i>C. E.</i>	<i>East Rindge</i>
Davis, Fred Maxfield	<i>D. H.</i>	<i>Franconia</i>
Davis, Marjorie Gould	<i>A. G.</i>	<i>Concord</i>
Davis, Paul Frederick	<i>A. G.</i>	<i>Tilton</i>

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NAME	COURSE	P.O. ADDRESS
Davison, Ralph Adolph	<i>Gen. Bus.</i>	<i>Manchester</i>
Dawson, Mabel June	<i>A. G.</i>	<i>Portsmouth</i>
Dean, Clara Harriette	<i>A. G.</i>	<i>Grafton</i>
Deschenes, Paul Louis	<i>Chem.</i>	<i>Somersworth</i>
DeSchuiteneer, Humphrey Edward	<i>Gen. Bus.</i>	<i>Manchester</i>
DesRosiers, Ralph Marc, Jr.	<i>Chem.</i>	<i>Derry</i>
DiPrizio, Costantino	<i>Pre-Med.</i>	<i>Middleton</i>
Dodson, George Bertram, Jr.	<i>Chem.</i>	<i>Swansea, Mass.</i>
Doe, Anna Veronica	<i>A. G.</i>	<i>Dover</i>
Donle, Walter Kincaid	<i>C. E.</i>	<i>Newport</i>
Donnelly, Royston Walworth	<i>Gen. Bus.</i>	<i>St. Albans, N. Y.</i>
Dooley, Walter Newman	<i>A. G.</i>	<i>Hudson</i>
Dubiel, Joseph Michael	<i>Chem.</i>	<i>Manchester</i>
DuBois, Robert Arthur	<i>M. E.</i>	<i>Manchester</i>
Dubriske, Roger Stanley	<i>M. E.</i>	<i>Ashuelot</i>
Durette, Richard Ernest	<i>E. E.</i>	<i>Salmon Falls</i>
Durgin, John Worthen, Jr.	<i>C. E.</i>	<i>Portsmouth</i>
DuRie, John David	<i>Gen. Bus.</i>	<i>Rahway, N. J.</i>
Dyke, John Rand	<i>Pre-Med.</i>	<i>Atkinson</i>
Ebbesen, Ellane Luther	<i>A. G.</i>	<i>New York, N. Y.</i>
Edgerly, Barbara Eileen	<i>A. G.</i>	<i>Lincoln</i>
Evans, Nelson Foss	<i>Chem.</i>	<i>Rochester</i>
Evans, William Thomas	<i>A. G.</i>	<i>Newmarket</i>
Farr, Richard	<i>C. E.</i>	<i>Lebanon</i>
Fellows, Robert Stillman	<i>Gen. Bus.</i>	<i>Manchester</i>
Fernald, Christine Frances	<i>A. G.</i>	<i>Nottingham</i>
Ferrin, Harold William	<i>A. G.</i>	<i>Manchester</i>
Flanders, W. Clark	<i>Gen. Bus.</i>	<i>Manchester</i>
Flanders, June	<i>A. G.</i>	<i>Concord</i>
Flanzbaum, Lester	<i>A. G.</i>	<i>Winthrop, Mass.</i>
Forsait, Bernard Lloyd	<i>A. G.</i>	<i>Warner</i>
Foss, Phyllis Cora	<i>A. G.</i>	<i>Center Barnstead</i>
Freedman, Jacob	<i>A. G.</i>	<i>Manchester</i>
Frost, Helene Lucille	<i>A. G.</i>	<i>Penacook</i>
Furman, Albert	<i>A. G.</i>	<i>Manchester</i>
Gardner, Alfred Emmons	<i>Pre-Med.</i>	<i>Plymouth</i>
Gerrish, Randolph Winthrop	<i>Chem.</i>	<i>Rochester</i>

FRESHMEN

NAME	COURSE	P.O. ADDRESS
Giarla, Thomas Charles	<i>M. E.</i>	<i>Concord</i>
Gilman, Marshall Guy	<i>Pre-Med.</i>	<i>Franklin</i>
Gisburne, John Robert	<i>A. G.</i>	<i>E. Milton, Mass.</i>
Glaser, Pearl Barbara	<i>A. G.</i>	<i>Winthrop, Mass.</i>
Glynn, Robert Sydney	<i>Pre-Med.</i>	<i>Belleville, N. J.</i>
Godbois, Henry Joseph	<i>A. G.</i>	<i>Dover</i>
Goldstein, Sybil	<i>Pre-Med.</i>	<i>Nashua</i>
Goodman, Grace Claire	<i>A. G.</i>	<i>Lebanon</i>
Goodwin, John Floyd	<i>C. E.</i>	<i>Piermont</i>
Goodwin, William Henry	<i>Arch.</i>	<i>Canterbury</i>
Goud, Prescott Lee	<i>E. E.</i>	<i>Holderness</i>
Gowen, Lincoln Elroy	<i>M. E.</i>	<i>Concord</i>
Gozonsky, Abraham	<i>A. G.</i>	<i>Laconia</i>
Grady, John Christopher	<i>A. G.</i>	<i>Dover</i>
Graham, Jessie Mary	<i>A. G.</i>	<i>Lebanon</i>
Greene, Arnold Austin	<i>A. G.</i>	<i>Milton, Mass.</i>
Greenlaw, Henry Albert	<i>A. G.</i>	<i>Bethlehem</i>
Greenough, Ruth Louise	<i>A. G.</i>	<i>Hooksett</i>
Griffin, Dorothy Adele	<i>Gen. Bus.</i>	<i>Fremont</i>
Griffiths, Leslie Osborn	<i>A. G.</i>	<i>Berwick, Me.</i>
Gruber, Richard Dexter	<i>Pre-Med.</i>	<i>Malden, Mass.</i>
Gurley, Robert Clarence	<i>A. G.</i>	<i>Concord</i>
Haarala, Edith Edna	<i>A. G.</i>	<i>Lebanon</i>
Haley, Dorothy Olevia	<i>A. G.</i>	<i>South Lee</i>
Ham, Frances Marion	<i>Pre-Med.</i>	<i>Durham</i>
Hankins, Dorothy Louise	<i>A. G.</i>	<i>Durham</i>
Hanscom, Elinore Catherine	<i>A. G.</i>	<i>Dover</i>
Hanson, Arthur Francis	<i>Gen. Bus.</i>	<i>East Kingston</i>
Harkaway, Aaron Abraham	<i>Pre-Law</i>	<i>Nashua</i>
Harmon, Donald Ward	<i>M. E.</i>	<i>Durham</i>
Harriman, Byron Lynn	<i>A. G.</i>	<i>Warner</i>
Hart, Robert Thompson	<i>Chem.</i>	<i>Bristol</i>
Harte, John Eddy	<i>Chem.</i>	<i>Manchester</i>
Hatch, Louise Estelle	<i>H. E.</i>	<i>Smithtown</i>
Hayes, Gertrude Agnes	<i>A. G.</i>	<i>Dover</i>
Hazen, David Marshall	<i>Gen. Bus.</i>	<i>Whitefield</i>
Heald, Burton Keith	<i>C. E.</i>	<i>Nashua</i>

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Heath, Calvin Aldrich	<i>Pre-Law</i>	<i>North Woodstock</i>
Henderson, Gordon Kenneth	<i>M. E.</i>	<i>Dover</i>
Henson, Raymond Harry	<i>Agr. Tr.</i>	<i>Winchester</i>
Herlihy, Thomas Joseph	<i>M. E.</i>	<i>Wilton</i>
Hersey, William Wendell	<i>A. G.</i>	<i>Portsmouth</i>
Hewitt, Madeleine Gertrude	<i>A. G.</i>	<i>Portsmouth</i>
Higgins, Norman Clement	<i>For.</i>	<i>Exeter</i>
Hill, Francis Bremner	<i>E. E.</i>	<i>Deerfield</i>
Hillier, Donald Thomas	<i>A. G.</i>	<i>Lancaster</i>
Holmes, George Allen	<i>Agr. Tr.</i>	<i>Charlestown</i>
Hooker, George Richard	<i>Pre-Med.</i>	<i>Lincoln</i>
Howard, Charlotte Danforth	<i>Pre-Med.</i>	<i>Concord</i>
Howard, Eleanor Frances	<i>A. G.</i>	<i>Dover</i>
Hudson, Lois Clark	<i>A. G.</i>	<i>Laconia</i>
Hujzak, Karol Louis	<i>M. E.</i>	<i>Reed's Ferry</i>
Huse, Raymond Addison	<i>E. E.</i>	<i>Meriden</i>
Ingham, George Law	<i>E. E.</i>	<i>Nashua</i>
Irving, John Campbell	<i>A. G.</i>	<i>Manchester</i>
Janetos, Nicholas Simon	<i>Pre-Med.</i>	<i>Dover</i>
Jenness, Robert	<i>A. H.</i>	<i>Dover</i>
Jewett, Ruth Hamlin	<i>Pre-Med.</i>	<i>Gorham</i>
Johnson, Doris Mae	<i>A. G.</i>	<i>Concord</i>
Johnson, Fred Hoyer	<i>M. E.</i>	<i>Port Richmond, N. Y.</i>
Jones, Joseph Alphonso	<i>C. E.</i>	<i>Dover</i>
Jones, Norman D.	<i>A. G.</i>	<i>Newmarket</i>
Jones, Robert Hayward	<i>M. E.</i>	<i>Hanover</i>
Jordan, Dorothy Anna	<i>A. G.</i>	<i>Concord</i>
Karanikas, Alexander	<i>A. G.</i>	<i>Goffstown</i>
Kastner, Alton	<i>A. G.</i>	<i>New York, N. Y.</i>
Kay, Joe Chung	<i>C. E.</i>	<i>Manchester</i>
Kazienko, Louis Walter	<i>A. G.</i>	<i>Manchester</i>
Kazmirchuk, Annie	<i>H. E.</i>	<i>Lincoln</i>
Keenan, George Robert	<i>E. E.</i>	<i>Berlin</i>
Keenan, Priscilla Anne	<i>A. G.</i>	<i>Lancaster</i>
Keir, Richard Henry	<i>A. G.</i>	<i>Whitefield</i>
Kelleher, James Howard	<i>Pre-Med.</i>	<i>Durham</i>
Kenneson, Donald Guy	<i>A. G.</i>	<i>Rumney</i>

FRESHMEN

NAME	COURSE	P.O. ADDRESS
Kershaw, Robert Morse, 3rd	<i>Chem.</i>	<i>So. Portland, Me.</i>
Kidder, Robert Wilson	<i>A. G.</i>	<i>Laconia</i>
Kierstead, James Clair	<i>C. E.</i>	<i>Lebanon</i>
Kimball, Ralph Herbert	<i>A. G.</i>	<i>Manchester</i>
Kizala, Bolik	<i>Agr. Tr.</i>	<i>Nashua</i>
Koczela, Metty John	<i>M. E.</i>	<i>Manchester</i>
Lacoss, Niles Alfred	<i>M. E.</i>	<i>Etna</i>
Landry, Amedee Simeon	<i>Chem.</i>	<i>Somersworth</i>
Lane, Harold LeGro	<i>For.</i>	<i>Conway</i>
Langley, Bernard Howard	<i>C. E.</i>	<i>Gilmanton</i>
LaPlante, Robert Athol	<i>Gen. Bus.</i>	<i>Concord</i>
Larkin, Harriet	<i>A. G.</i>	<i>Hillsboro</i>
Laskarzewski, Boleslaus Frank	<i>Agr. Ch.</i>	<i>Meriden, Conn.</i>
Lederman, Eli	<i>Pre-Med.</i>	<i>Brockton, Mass.</i>
LeMay, Raymond Joseph	<i>A. G.</i>	<i>Manchester</i>
Lentine, Andrew Frank	<i>Pre-Med.</i>	<i>Milford</i>
Lenzi, Gordon Frank	<i>M. E.</i>	<i>Rochester</i>
Leocha, Adolph John	<i>A. G.</i>	<i>Claremont</i>
Libby, Frances Marie	<i>A. G.</i>	<i>Portsmouth</i>
Lincoln, Edward Hinkley	<i>Pre-Law</i>	<i>Meriden</i>
Linscott, Jane Catherine	<i>A. G.</i>	<i>Exeter</i>
Little, Edward William Herbert	<i>Pre-Med.</i>	<i>East Derry</i>
Littlefield, Harry Young	<i>E. E.</i>	<i>Amesbury, Mass.</i>
Lougee, Justine	<i>A. G.</i>	<i>Pittsfield</i>
Lovett, Kenneth Lester	<i>Chem.</i>	<i>Durham</i>
Lufkin, Clarence Rawson	<i>E. E.</i>	<i>Conway</i>
Lynbourg, William Beckett	<i>A. G.</i>	<i>Manchester</i>
Lyons, Regis Angela	<i>A. G.</i>	<i>Manchester</i>
MacAulay, Paul Vincent	<i>Pre-Law</i>	<i>Concord</i>
McComb, Raymond Morris	<i>Pre-Med.</i>	<i>East Kingston</i>
McCormack, Hazel Isabelle	<i>A. G.</i>	<i>Milford</i>
MacDonald, Ann Paula	<i>A. G.</i>	<i>Newmarket</i>
McKeigue, John Edward	<i>Pre-Med.</i>	<i>Haverhill, Mass.</i>
McKinlay, Beulah Ruth	<i>A. G.</i>	<i>North Haverhill</i>
McLaughlin, Frederick Arthur	<i>Chem.</i>	<i>Dover</i>
McMahon, James Davis	<i>C. E.</i>	<i>Franklin</i>
McNamara, Elizabeth Mary	<i>Pre-Med.</i>	<i>Manchester</i>

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MacNaughton, Constance Gertrude	<i>Gen. Bus.</i>	<i>Nashua</i>
McQuaid, Elias Alfred	<i>A. G.</i>	<i>Candia</i>
Mann, Paul Israel	<i>Gen. Bus.</i>	<i>Greenland</i>
Marden, Viola Agnes	<i>A. G.</i>	<i>Dover</i>
Marshall, Sumner Eugene	<i>P. H.</i>	<i>Penacook</i>
Martel, Thelma Elizabeth	<i>A. G.</i>	<i>Durham</i>
Martin, Charles Burt	<i>M. E.</i>	<i>Danbury</i>
Martin, Russell Frederick	<i>Gen. Bus.</i>	<i>Gloucester, Mass.</i>
Martin, Stuart Edward	<i>A. G.</i>	<i>No. Stratford</i>
Martin, Wendell James	<i>Gen. Bus.</i>	<i>W. Stewartstown</i>
Mason, George Knight	<i>M. E.</i>	<i>Atkinson</i>
Masse, Wilda Adele	<i>Pre-Med.</i>	<i>Epping</i>
Matson, Matthew Irving	<i>A. G.</i>	<i>Dover</i>
Matson, Ellen Maria	<i>H. E.</i>	<i>New Ipswich</i>
Maxson, Robert Orville	<i>C. E.</i>	<i>Canterbury</i>
Meagher, Annette Ruth	<i>A. G.</i>	<i>Portsmouth</i>
Mendelson, Donald Jason	<i>Gen. Bus.</i>	<i>Nashua</i>
Merrill, Harriet Elizabeth	<i>A. G.</i>	<i>North Haverhill</i>
Mitchell, Ralph Pike, Jr.	<i>Agr.</i>	<i>Freedom</i>
Monahan, Leo Thomas	<i>M. E.</i>	<i>Twin Mountain</i>
Montrone, Alfred Joseph	<i>Gen. Bus.</i>	<i>Keene</i>
Moore, Herbert Watson	<i>A. G.</i>	<i>Nashua</i>
Moore, James Robert	<i>Pre-Law</i>	<i>Portsmouth</i>
Moore, Ralph Loud	<i>A. G.</i>	<i>Ossipee</i>
Moran, Helen Ann	<i>Pre-Med.</i>	<i>Nashua</i>
Moreland, Dorothy Mary	<i>A. G.</i>	<i>Medford, Mass.</i>
Morin, Richard Albin	<i>A. G.</i>	<i>Concord</i>
Morrill, Barbara Lillian	<i>A. G.</i>	<i>Dover</i>
Morse, Clara Elizabeth	<i>Pre-Med.</i>	<i>Gorham</i>
Morse, David Putnam	<i>A. G.</i>	<i>Pearl River, N. Y.</i>
Morse, Norma Vivian	<i>A. G.</i>	<i>Keene</i>
Moulton, Verna Emma	<i>H. E.</i>	<i>E. Plainfield</i>
Munroe, Grace Winifred	<i>A. G.</i>	<i>Manchester</i>
Murphy, James Erwin	<i>Gen. Bus.</i>	<i>Gorham</i>
Murphy, Peter Joseph	<i>A. G.</i>	<i>Dover</i>
Mylymaki, William Richard	<i>Chem.</i>	<i>West Concord</i>
Nellson, Robert Archibald	<i>A. G.</i>	<i>Waltham, Mass.</i>

FRESHMEN

NAME	COURSE	P.O. ADDRESS
Newell, Dana Winchester	<i>Chem.</i>	<i>Bow</i>
Newell, Russell Warren	<i>Pre-Med.</i>	<i>Bow</i>
Ney, Martin Gregory	<i>A. G.</i>	<i>Centre Strafford</i>
Norris, Esther Kathleen	<i>A. G.</i>	<i>Woodsville</i>
Noury, George Albert	<i>A. G.</i>	<i>Claremont</i>
Nutter, Elinor	<i>A. G.</i>	<i>Springdale, Conn.</i>
O'Brien, John Joseph	<i>Gen. Bus.</i>	<i>Portsmouth</i>
O'Brien, Paul Joseph	<i>E. E.</i>	<i>Nashua</i>
O'Hare, Martin Henry	<i>Gen. Bus.</i>	<i>Nashua</i>
O'Neil, Hubert Stratton	<i>M. E.</i>	<i>East Jaffrey</i>
Otis, Stanton Clarke	<i>C. E.</i>	<i>Concord</i>
Page, Charlene Annette	<i>A. G.</i>	<i>Milton Mills</i>
Page, Lillian Josephine	<i>H. E.</i>	<i>New Ipswich</i>
Page, Thelma Dwight	<i>A. G.</i>	<i>Worcester, Mass.</i>
Pariseau, Harold Henry	<i>A. G.</i>	<i>Newport</i>
Park, Lewis Ashby	<i>C. E.</i>	<i>Manchester</i>
Parker, Conrad Beedy	<i>For.</i>	<i>Manchester</i>
Parker, Mayland Linwood	<i>Chem.</i>	<i>Keene</i>
Parlin, Marguerite Emily	<i>A. G.</i>	<i>Hampstead</i>
Pastor, Jackson	<i>Gen. Bus.</i>	<i>Nashua</i>
Patten, George Daniel	<i>E. E.</i>	<i>Franklin</i>
Pearsons, Rachel	<i>Gen. Bus.</i>	<i>Hill</i>
Pedrick, Dexter Kilborn	<i>A. G.</i>	<i>Laconia</i>
Perkins, Alice Mary	<i>H. E.</i>	<i>Kennebunkport, Me.</i>
Perkins, Priscilla	<i>A. G.</i>	<i>Concord</i>
Perkins, William Lincoln	<i>Pre-Med.</i>	<i>Gorham</i>
Peterson, Carl William	<i>Chem.</i>	<i>Belmont, Mass.</i>
Photos, Christine Theodora	<i>H. E.</i>	<i>Dover</i>
Pickering, Ralph Richard	<i>A. G.</i>	<i>Portsmouth</i>
Pickett, Wiley Jason	<i>Chem.</i>	<i>Concord</i>
Pillsbury, Leonard Hobart	<i>A. G.</i>	<i>Derry</i>
Plaisted, Donald Ernest	<i>For.</i>	<i>Meredith</i>
Plummer, Charles Henry	<i>E. E.</i>	<i>Somersworth</i>
Poftak, Mathew Henry	<i>Chem.</i>	<i>Manchester</i>
Pokigo, Boleslaw Henry	<i>C. E.</i>	<i>Manchester</i>
Powell, Samuel Wesley	<i>A. G.</i>	<i>Portsmouth</i>
Powell, Theresa Elizabeth	<i>A. G.</i>	<i>Milford</i>

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Pridham, Mary Jacquelyn	<i>A. G.</i>	<i>Portsmouth</i>
Priest, Homer Farnum, Jr.	<i>Chem.</i>	<i>Nelson</i>
Prince, Donald Stanley	<i>Agr.</i>	<i>Franklin</i>
Pryor, Charles Edward	<i>Chem.</i>	<i>Dover</i>
Putnam, Dexter Nevins	<i>Agr.</i>	<i>Wilton</i>
Quinn, George Eliot Birtwell	<i>Pre-Med.</i>	<i>Concord</i>
Raices, Lawrence Robert	<i>E. E.</i>	<i>Antrim</i>
Rand, George Wesley	<i>Pre-Med.</i>	<i>Plymouth</i>
Rand, Robert Henry	<i>Pre-Med.</i>	<i>Plymouth</i>
Rangazas, Eva Elphinicky	<i>A. G.</i>	<i>Nashua</i>
Rassias, Christine Vivian	<i>A. G.</i>	<i>Manchester</i>
Reed, Margaret Helen	<i>A. G.</i>	<i>Hanover</i>
Rhodes, Eleanor	<i>A. G.</i>	<i>Lancaster</i>
Rice, Carl Sherwood	<i>M. E.</i>	<i>Manchester</i>
Rich, Jane Frances	<i>A. G.</i>	<i>Lynn, Mass.</i>
Richardson, Charles Elwin	<i>E. E.</i>	<i>Lynn, Mass.</i>
Richardson, Neil Leroy	<i>M. E.</i>	<i>Littleton</i>
Richelson, Julius	<i>Chem.</i>	<i>Ashland</i>
Ricker, George Winthrop	<i>M. E.</i>	<i>Berwick, Me.</i>
Robinson, Ruth Helena	<i>A. G.</i>	<i>Dover</i>
Rodgers, Mabel Ellen	<i>A. G.</i>	<i>Temple</i>
Rolfe, Benjamin Curtis	<i>Arch.</i>	<i>Penacook</i>
Rose, Marvis Pauline	<i>A. G.</i>	<i>Portsmouth</i>
Rosinski, Francis Joseph	<i>A. G.</i>	<i>Claremont</i>
Rossi, Oscar Louis	<i>M. E.</i>	<i>Waterbury, Conn.</i>
Rowe, Bette Ingrid	<i>A. G.</i>	<i>Dover</i>
Russell, Malcolm Story	<i>Gen. Bus.</i>	<i>Manchester</i>
Ryder, Margaret Frances	<i>A. G.</i>	<i>Marlboro</i>
Saipe, Lester	<i>M. E.</i>	<i>Manchester</i>
Sampaticos, Peter Michael	<i>Agr.</i>	<i>Methuen, Mass.</i>
Sargent, Neil Edward	<i>Pre-Med.</i>	<i>Plymouth</i>
Schiavoni, Frank James	<i>A. G.</i>	<i>Manchester</i>
Scott, Bernard Earle	<i>A. H.</i>	<i>Hollis</i>
Scudder, James Henry	<i>Agr.</i>	<i>Durham</i>
Sculos, John Straty	<i>Gen. Bus.</i>	<i>Portsmouth</i>
Senter, Alfred Mitchell	<i>Gen. Bus.</i>	<i>Brunswick, Me.</i>
Sewall, Margaret Jane	<i>A. G.</i>	<i>Newfields</i>

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NAME	COURSE	P.O. ADDRESS
Shapiro, Lester	<i>Gen. Bus.</i>	<i>Laconia</i>
Shea, John Richard	<i>Gen. Bus.</i>	<i>Manchester</i>
Shea, Leonard Ignatius	<i>Pre-Med.</i>	<i>Portsmouth</i>
Shepherd, Francis Harold	<i>Gen. Bus.</i>	<i>Tilton</i>
Sherburne, Mary Ellen	<i>A. G.</i>	<i>Newmarket</i>
Sherwood, Harry Sheldon	<i>A. G.</i>	<i>Plymouth</i>
Shevenell, Roland Edward	<i>A. G.</i>	<i>Dover</i>
Sikalias, John	<i>D. H.</i>	<i>Dover</i>
Silverberg, Isadore Nathan	<i>Gen. Bus.</i>	<i>Manchester</i>
Simonds, Lester Elliott	<i>Gen. Bus.</i>	<i>Manchester</i>
Skoglund, Winthrop Charles	<i>P. H.</i>	<i>Lynn, Mass.</i>
Sleeper, Raymond Sterrett	<i>Chem.</i>	<i>Laconia</i>
Smith, Geraldine Estelle	<i>A. G.</i>	<i>Manchester</i>
Smith, Harold Louis	<i>Chem.</i>	<i>Chester</i>
Smith, Nathan	<i>Pre-Med.</i>	<i>Lebanon</i>
Smith, Richard Carlton	<i>E. E.</i>	<i>Strafford</i>
Smith, Ruth Lillian	<i>A. G.</i>	<i>East Barrington</i>
Smith, William Lloyd	<i>Pre-Med.</i>	<i>Amherst</i>
Snell, Arthur Edward	<i>A. G.</i>	<i>Lisbon</i>
Snow, Joseph Ingram	<i>A. G.</i>	<i>Saugus, Mass.</i>
Snowman, Arthur Vanstane	<i>Chem.</i>	<i>Lebanon</i>
Solomon, Philip	<i>Pre-Med.</i>	<i>Franklin</i>
Spaulding, William Rowe, Jr.	<i>A. G.</i>	<i>Wollaston, Mass.</i>
Stanley, William Clough	<i>Gen. Bus.</i>	<i>New London</i>
Stein, Alex Charles	<i>A. G.</i>	<i>Nashua</i>
Stenzel, George	<i>For.</i>	<i>Durham</i>
Stevens, Alan	<i>C. E.</i>	<i>Medfield, Mass.</i>
Stevens, Alice Louise	<i>A. G.</i>	<i>Nashua</i>
Stevens, Carroll Davis	<i>A. G.</i>	<i>Newmarket</i>
Story, John Everett	<i>Pre-Med.</i>	<i>Dover</i>
Strickland, Wallace Albert	<i>C. E.</i>	<i>Lincoln</i>
Strout, Carroll Lewis	<i>Chem.</i>	<i>Unity</i>
Stuart, Andrew Worley	<i>C. E.</i>	<i>Gorham</i>
Swallow, Lawrence Barr	<i>A. G.</i>	<i>Manchester</i>
Swan, Mary Eliza	<i>A. G.</i>	<i>Rochester</i>
Swasey, Robert Mitchell	<i>A. G.</i>	<i>Exeter</i>
Tenney, Hope Minerva	<i>A. G.</i>	<i>Gorham</i>

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NAME	COURSE	P.O. ADDRESS
Terris, George Everett	<i>Gen. Bus.</i>	<i>Nashua</i>
Thompson, Lucille Marie	<i>H. E.</i>	<i>Lee</i>
Thurston, Edmund Elkins	<i>Pre-Med.</i>	<i>Exeter</i>
Thyng, Charles Herbert	<i>C. E.</i>	<i>Barnstead</i>
Tilton, Marjorie Augusta	<i>A. G.</i>	<i>Woodsville</i>
Tolles, Robert Walter	<i>E. E.</i>	<i>Terryville, Conn.</i>
Trabucco, Alfred	<i>A. G.</i>	<i>New Hampton</i>
Tranfaglia, Louis Anthony	<i>Pre-Med.</i>	<i>Concord</i>
Treadwell, Mary	<i>A. G.</i>	<i>Ridgewood, N. J.</i>
Tremblay, Roland Gilbert	<i>Pre-Med.</i>	<i>Somersworth</i>
True, Lucile Agnes	<i>A. G.</i>	<i>Fremont</i>
Turci, John Delmo	<i>M. E.</i>	<i>Portsmouth</i>
Tyson, Victor Eyre, Jr.	<i>Chem.</i>	<i>Manchester</i>
Uicker, George Bernard	<i>E. E.</i>	<i>Derry</i>
Urquhart, Russell	<i>A. G.</i>	<i>North Quincy, Mass.</i>
VanDyke, Barbara Alice	<i>H. E.</i>	<i>Kennebunk, Me.</i>
Vannah, Betsey	<i>Gen. Bus.</i>	<i>Berlin</i>
Verville, Martin James	<i>A. G.</i>	<i>Concord</i>
Walton, Robert	<i>A. G.</i>	<i>Durham</i>
Waters, Warren Edwin	<i>M. E.</i>	<i>Pittsfield</i>
Weathers, Harry Daniel, Jr.	<i>A. G.</i>	<i>Concord</i>
Wentworth, Elizabeth Hall	<i>A. G.</i>	<i>Somersworth</i>
Wentzell, Homer Philbrick	<i>Gen. Bus.</i>	<i>Rye</i>
Wescott, Benjamin Walter	<i>D. H.</i>	<i>Contoocook</i>
West, Dorothy Marion	<i>A. G.</i>	<i>Lebanon</i>
Wharff, Edward Hamblett	<i>E. E.</i>	<i>Greenville</i>
Whipple, Mary Elizabeth	<i>Gen. Bus.</i>	<i>Lexington, Mass.</i>
Whitcher, Lawrence George	<i>Chem.</i>	<i>Berlin</i>
Whitcomb, Percy Robert	<i>Pre-Law</i>	<i>Littleton</i>
Whitley, Dorothy May	<i>H. E.</i>	<i>Dover</i>
Whyte, Richard Van	<i>A. G.</i>	<i>Portland, Me.</i>
Willens, Sumner Harold	<i>Pre-Med.</i>	<i>Nashua</i>
Wood, Harry Fred, Jr.	<i>For.</i>	<i>Plymouth</i>
Wright, Harold James	<i>Pre-Law</i>	<i>Littleton</i>
Zais, Melvin	<i>A. G.</i>	<i>Fall River, Mass.</i>
Zautra, Joseph Anthony	<i>A. G.</i>	<i>Nashua</i>

TWO-YEAR AGRICULTURAL STUDENTS

SPECIAL STUDENTS

(Men, 15; Women, 10; Total, 25)

NAME	COURSE	P.O. ADDRESS
Almgren, Neal	<i>A. G.</i>	<i>Rochester</i>
Billewicz, Faustyna Ann	<i>A. G.</i>	<i>Nashua</i>
Boulay, Ernest Alfred	<i>A. G.</i>	<i>Concord</i>
Bryant, Harlan Moore	<i>Tech.</i>	<i>Milton</i>
Cassell, Norman Stanley	<i>A. G.</i>	<i>Dover</i>
Child, Roger Bowman	<i>A. G.</i>	<i>Charlestown</i>
Coates, William Herbert	<i>A. G.</i>	<i>Pittsburg</i>
Colby, Helen	<i>A. G.</i>	<i>Hampton</i>
Colby, Halstead Norman	<i>Agric.</i>	<i>Concord</i>
Colovos, Virginia Daeris	<i>A. G.</i>	<i>Durham</i>
Cross, Harold Walter	<i>Agric.</i>	<i>Colebrook</i>
Dillingham, Alice Minerva	<i>A. G.</i>	<i>Somersworth</i>
Ekstrom, Roland George	<i>Agric.</i>	<i>Nashua</i>
Gould, Alice Mary	<i>A. G.</i>	<i>Manchester</i>
Grover, Muriel Rutledge	<i>A. G.</i>	<i>Dover</i>
Hale, Melvyn Dexter	<i>Agric.</i>	<i>Wolfeboro</i>
Howes, Edith Steele	<i>A. G.</i>	<i>Durham</i>
Hunkins, Charlotte Louise	<i>A. G.</i>	<i>Auburn</i>
Lally, Francis Henry	<i>Agric.</i>	<i>Wakefield, Mass.</i>
Lizio, Ralph Americo	<i>A. G.</i>	<i>Portsmouth</i>
Lovely, Joseph Leroy	<i>A. G.</i>	<i>Exeter</i>
MacDonald, William Joseph	<i>A. G.</i>	<i>Intervale</i>
Morse, Arthur Anthony, Jr.	<i>A. G.</i>	<i>Dover</i>
Roe, Henrietta R.	<i>A. G.</i>	<i>Dover</i>
Washburn, Alice Elizabeth	<i>A. G.</i>	<i>West Lebanon, Me.</i>

TWO-YEAR AGRICULTURAL STUDENTS

FIRST YEAR

(Men, 22)

NAME	P.O. ADDRESS
Balatsos, Spiros Arthur	<i>Reed's Ferry</i>
Batchelder, Raymond Freemont	<i>Wilton</i>
Brady, Charles Hugh	<i>Newmarket</i>
Brown, Charles Franklin	<i>Northwood</i>
Brown, Douglas Robert	<i>Littleton</i>

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NAME	P.O. ADDRESS
Bruce, Irvin Quimby	<i>Claremont</i>
Bruce, Joseph Strong	<i>Exeter</i>
Farr, Robert Stevens	<i>Lebanon</i>
Gilpatrick, George Edward	<i>Concord</i>
Grant, Douglas Newcomb	<i>Buckland, Conn.</i>
Holt, Merrill Lovejoy	<i>Temple</i>
LaBombard, Arthur Joseph	<i>Lebanon</i>
Laviolette, Edward Lawrence	<i>Stratham</i>
McRae, Alexander James	<i>Dover</i>
Marshall, J. Shumway	<i>Colebrook</i>
Moulton, Richard Edwin	<i>Moultonboro</i>
Parsons, Walter Noyes	<i>Colebrook</i>
Sanborn, Richard George	<i>East Concord</i>
Sawyer, Roger Bradley	<i>Atkinson Depot</i>
Somero, Andrew Leander	<i>New Ipswich</i>
Staples, Robert Calvin	<i>Dover</i>
Wentworth, John Robertson	<i>Exeter</i>

SECOND YEAR (Men, 16)

NAME	P.O. ADDRESS
Berry, Robert Sherwood	<i>Stratham</i>
Boothby, Milton Wellington	<i>Conway</i>
Clark, Earle Drake	<i>Northwood</i>
Cotton, Milo Edward	<i>Dover</i>
Farwell, William Henry	<i>Milford</i>
Fuller, Lawrence Blakeney	<i>Lancaster</i>
Hannaford, Paul Philip	<i>Peterborough</i>
Kidder, Richard Stacey	<i>New London</i>
McAllister, Robert Willis	<i>Center Barnstead</i>
Rhoades, Bayard Clark	<i>Alstead</i>
Ricker, Charles Edward	<i>Somersworth</i>
Sanborn, Roger Colby	<i>Contoocook</i>
Stoddard, Frederick Amasa	<i>Colebrook</i>
Thurston, Howard Jerome	<i>Winchester</i>
Townsend, Norman Storrs	<i>Lebanon</i>
Weigel, Ernest William	<i>Durham</i>

ENROLLMENT—SUMMER SESSION—1934

(Men, 152; Women, 169; Total, 321)

Aaron, Alison	<i>Maine</i>	<i>Biddeford, Me.</i>
Adams, Esther	<i>B. U.</i>	<i>Farmington</i>
Adams, Ramona		<i>Seabrook</i>
Allen, Myrtle A.		<i>Dover</i>
Andberg, Eric W.		<i>West Concord</i>
Andberg, William G.	<i>N. H. '34</i>	<i>West Concord</i>
Anderton, Ethel L.	<i>Wellesley '11</i>	<i>York Beach, Me.</i>
	<i>Yale '22 M.A.</i>	
	<i>Yale '25 Ph.D.</i>	
Arlanson, Harry	<i>Tufts '31</i>	<i>Lynn, Mass.</i>
Ayer, Theodore H.	<i>N. H. '29</i>	<i>Milton Mills</i>
Bailey, Annie E.	<i>Wellesley '13</i>	<i>Katonah, N. Y.</i>
Bales, Edith L.	<i>Radcliffe '03</i>	<i>Milford</i>
Bales, Harold C.	<i>Dartmouth '09</i>	<i>Milford</i>
	<i>Mass. '17 M.S.</i>	
Ballou, James M.		<i>Keene</i>
Bannon, James H.		<i>Glendale</i>
Barker, Kenneth T.		<i>Bridgewater</i>
Barry, Margaret E.	<i>Maxfield St. Norm. '31</i>	<i>White Haven, Pa.</i>
Bartlett, Mildred		<i>Bradford, Mass.</i>
Batchelder, Walter E.	<i>N. H. '34</i>	<i>Durham</i>
Baxter, Iva G.	<i>Radcliffe '34</i>	<i>Pine Orchard, Me.</i>
Beal, Raymond I.		<i>Portsmouth</i>
Beckman, Elsie E.	<i>Plymouth Normal '31</i>	<i>East Kingston</i>
Bianchi, Frank P.		<i>Lebanon</i>
Billington, Chester E.	<i>Middlebury '35</i>	<i>Franconia</i>
Blackington, Frank H.	<i>Bates '21</i>	<i>Keene</i>
Blagden, Phyllis		<i>Norfolk, Mass.</i>
Blair, Ellenor R.	<i>Plymouth Normal '29</i>	<i>Rochester</i>
Bogardus, Harriet R.		<i>Canaan</i>
Bosselait, Albert J.		<i>Greenville</i>
Boutwell, Thelma W.	<i>Keene Normal '21</i>	<i>Concord</i>
Brackett, Madalene	<i>Maine '25</i>	<i>Newton Junction</i>
Breene, Dorothy M.		<i>Concord</i>

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NAME	COLL. AND DEGREE	ADDRESS
Brewster, Donald W.	<i>N. H. '33</i>	<i>West Lebanon</i>
Brown, Anna B. (Mrs.)	<i>Maine '08</i>	<i>Wentworth</i>
Brown, Margaret F.	<i>N. H. '28</i>	<i>Exeter</i>
Brown, Philip W.	<i>Keene Normal '33</i>	<i>Pittsfield</i>
Brown, Richard E.		<i>Wentworth</i>
Brown, Ruth M.	<i>N. H. '30</i>	<i>Deerfield</i>
Buckley, Timothy J.		<i>Portsmouth</i>
Bruce, Miriam M.	<i>Vassar '30</i>	<i>Brooklyn, N. Y.</i>
Burns, William A.		<i>Pittsfield, Mass.</i>
Carignan, Roland		<i>Dover</i>
Carriel, Charlotte (Mrs.)	<i>Mt. Holyoke '21</i>	<i>Concord</i>
Carrier, John A.		<i>Albany</i>
Casey, Charlotte		<i>Easthampton, Mass.</i>
Cassell, Clare A.		<i>Boston, Mass.</i>
Caswell, Philip P.		<i>Dover</i>
Caswell, Phyllis		<i>Laconia</i>
Cave, Shirley	<i>Bates '32</i>	<i>Whitefield</i>
Chace, Dorothy	<i>Brown '21</i>	<i>Northwood Narrows</i>
Chalmers, Harold		<i>Rochester</i>
Clafin, Sylvia L.	<i>Westfield Norm.</i>	<i>Southbridge, Mass.</i>
Clarke, Cynthia L.	<i>New Paltz Norm.</i>	<i>Ossining, N. Y.</i>
Clark, Guy H.	<i>Keene Normal '31</i>	<i>Manchester</i>
Clough, Barbara M.		<i>Lebanon</i>
Clough, Henry P.	<i>Dartmouth '25</i>	<i>Mendon, Mass.</i>
Codaire, Charlotte E.	<i>Keene Normal '28</i>	<i>Manchester</i>
Colby, Edward W.		<i>Londonderry</i>
Cole, Wilbur V.		<i>Durham</i>
Collins, Louise E.	<i>Plymouth Normal '33</i>	<i>Laconia</i>
Corson, Anne E.		<i>Dover</i>
Corson, Cynthia T.	<i>N. H. '33</i>	<i>Dover</i>
Cottam, Leland B.		<i>West Roxbury, Mass.</i>
Cournoyer, Margaret L.	<i>N. H. '29</i>	<i>East Jaffrey</i>
Crandall, William D.		<i>Northwood Narrows</i>
Crockett, Guy		<i>Durham</i>
Crompton, Earle W.	<i>Conn. '22</i>	<i>Macdonald College,</i>
	<i>Iowa State, M.S.</i>	<i>Prov. Quebec</i>
Crowther, Stephen T.	<i>N. H. '30</i>	<i>North Woodstock</i>

SUMMER SESSION, 1934

NAME	COLL. AND DEGREE	ADDRESS
Cuddy, John E. 3rd	<i>Bowdoin '33</i>	<i>Hampton Beach</i>
Currier, Harold F.		<i>Sunapee</i>
Curtis, Ruth J.	<i>Bates '27</i>	<i>Groveton</i>
Cutter, Albert V.		<i>Pelham</i>
Davis, Della R.		<i>Keene</i>
Davis, Isabel A.	<i>Keene Normal '32</i>	<i>Amherst</i>
Davis, Susan		<i>Summit, N. J.</i>
Davison, Elizabeth E.		<i>Woodsville</i>
Davison, Ralph		<i>Manchester</i>
Davol, Madeleine		<i>Manchester</i>
Dawson, Charles R.	<i>N. H. '33</i>	<i>Durham</i>
Diman, Mildred	<i>Brown '09</i>	<i>Exeter</i>
Dodge, Ida F.	<i>R. I. '31</i>	<i>Franklin</i>
Dodge, James H.	<i>Dartmouth '17</i>	<i>Concord</i>
	<i>M. I. T. '21</i>	
Doe, Ruth E.	<i>Ohio Wesleyan '28</i>	<i>Stratford, Conn.</i>
Dolan, Loretta G.		<i>Nashua</i>
Dorsey, Eleanor E.		<i>Ludlow, Vt.</i>
Douglas, Howard W.	<i>N. H. '31</i>	<i>Brattleboro, Vt.</i>
Dow, Marion	<i>Keene Normal '23</i>	<i>Pittsfield</i>
Downing, Jere R.	<i>Duke '35</i>	<i>Kennebunk, Me.</i>
Dresser, Holland L.	<i>N. H. '30</i>	<i>Andover</i>
DuBuron, Ethel B.	<i>Emerson '15</i>	<i>Boston, Mass.</i>
Ebner, Albert B.	<i>Brown '28</i>	<i>Thomaston, Conn.</i>
Edmunds, Guy O.		<i>Dover</i>
Edwards, Joseph R.		<i>Derry</i>
Egan, Kathleen E.	<i>Plymouth Normal '26</i>	<i>Claremont</i>
Ekdahl, Adolph G.	<i>Ohio State '25 Ph.D.</i>	<i>Durham</i>
Ekdahl, N. Marguerite		<i>Durham</i>
Ellis, Frances J.		<i>New London</i>
Feindel, Margaret E.	<i>Keene Normal '33</i>	<i>Berlin</i>
Fenerty, Harold F.	<i>Keene Normal '30</i>	<i>Peterboro</i>
Fenwick, Marston S.		<i>Portsmouth</i>
Flagg, Charlotte E.	<i>Plymouth Normal '33</i>	<i>Plymouth</i>
Flocken, Mary H.	<i>Wm. Smith '21</i>	<i>Katonah, N. Y.</i>

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NAME	COLL. AND DEGREE	ADDRESS
Flocken, Robert H.	<i>Wesleyan '12</i>	<i>Katonah, N. Y.</i>
Floros, Theodore N.		<i>Portsmouth</i>
Foley, Catherine B.	<i>B. U. '28</i>	<i>Belmont, Mass.</i>
Forbes, Doris S.	<i>Plymouth Normal '32</i>	<i>Colebrook</i>
Fulton, M. Elaine	<i>Framingham St. '30</i>	<i>Gardner, Mass.</i>
Gale, Marjorie H.	<i>N. H. '27</i>	<i>Dover</i>
Gallagher, Mary V.		<i>Nashua</i>
Garvin, Mary	<i>Pratt Inst. '11</i>	<i>Sanbornville</i>
Gifford, William H.		<i>Concord</i>
Goddard, Willard B.	<i>Kent State '29</i>	<i>Canton, Ohio</i>
Godfrey, Eloise R.	<i>Rutgers '34</i>	<i>Landing, N. J.</i>
Goertz, Georgia M.		<i>Alton</i>
Goodwin, Doris R.		<i>Piermont</i>
Goodwin, Helen I.	<i>Bates '29</i>	<i>Bristol</i>
Gordon, Samuel L.		<i>Mill Village</i>
Grant, Robert H.	<i>Bowdoin '33</i>	<i>Kittery, Maine</i>
Graves, Blanche M.		<i>Gorham</i>
Gray, Arthur N.	<i>Keene Normal '29</i>	<i>Rye Center</i>
Gray, Wayne S.	<i>Plymouth Normal '29</i>	<i>Colebrook</i>
Greer, Edna J.	<i>Plymouth Normal '25</i>	<i>No. Stratford</i>
Griffin, Evelyn M.	<i>Salem St. '28</i>	<i>Gloucester, Mass.</i>
Grow, Marguerite E.	<i>Keene Normal '27</i>	<i>Bradford, Vt.</i>
Guptill, Hazel L.	<i>Bates '31</i>	<i>Berwick, Maine</i>
Guptill, Jennie E.		<i>Portsmouth</i>
Hall, Fred W.	<i>N. H. '18</i>	<i>Hudson</i>
Hangen, Emerson	<i>Albright '22</i>	<i>Portsmouth</i>
Hanley, Gertrude L.	<i>Fitchburg T. '30</i>	<i>Belmont, Mass.</i>
Harmon, Linwood E.	<i>Gorham Normal '29</i>	<i>Durham</i>
Harriman, Carl E.	<i>N. H. '31</i>	<i>Hopkinton</i>
Hartwell, Lillian E.	<i>Leslie Normal '28</i>	<i>Nashua</i>
Haseltine, Edward J.		<i>Durham</i>
Hatch, Osman P.	<i>Plymouth Normal '31</i>	<i>Lebanon</i>
Haubrick, Wilson R.		<i>Claremont</i>
Haywood, Geraldine W.	<i>N. H. '34</i>	<i>Newcastle</i>
Henderson, Helen		<i>Durham</i>
Hill, Robert L.		<i>Plaistow</i>
Hilliard, Ruby G.	<i>Plymouth Normal '30</i>	<i>Plymouth</i>

SUMMER SESSION, 1934

NAME	COLL. AND DEGREE	ADDRESS
Hinds, Doris G.		Attleboro, Mass.
Hodgdon, John G.		Berlin
Holmes, Iber B.	Keene Normal '26	Raymond
Horton, George S., Jr.		Plaistow
Hosmer, Berkeley		Tamworth
Hounsell, Elizabeth J.	Plymouth Normal '23	Salmon Falls
Hoxie, Wilbar M.		Plaistow
Hoyt, Elizabeth C.	N. H. '29	Woodsville
Hoyt, Park R., Jr.	N. H. '34	Laconia
Hoyt, Raymond A.	N. H. '28	Woodsville
Hunter, Duncan U.		West Claremont
Jacques, Hubert L.		Somersworth
Jenness, Madelene P.	N. H. '19	Dover
Jenness, Margaret	Earlham '27	Dover
Johnson, Edith W.	Pratt Inst. '14	Morris Plains, N. J.
Johnson, Edna L.	Keene Normal '32	Hillsboro
Johnson, Esther L.	Portsmouth Tr. Sch., '32	Portsmouth
Johnson, Eva E.		Whitehall, N. Y.
Johnson, William D.	N. H. '25	W. Newbury, Mass.
Jordan, Dana S.	Bates '09	Littleton
Jordan, Emily		Wakefield, Mass.
Keenan, Selma	Plymouth Normal '30	Berlin
Klingman, Kathryn E.	Bucknell '29	Watsontown, Pa.
Ktistes, Peter		Gloucester, Mass.
Kuhlmann, Martha J.	N. Y. Univ. '31	Brooklyn, N. Y.
Langlois, Theresa E.		Pittsfield, Mass.
Lanouette, Gabrielle P.	Keene Normal '28	Milford
Lawrence, Charles T.		Manchester
Learmonth, Arthur B.	N. H. '33	Lawrence, Mass.
Leavitt, Harold I.	N. H. '21	Durham
LeBourveau, Charles	Colgate	White River Jct.
Ledden, John B.		Fitchburg, Mass.
Lees, George W.	B. U. '32	Lowell, Mass.
Lester, Bernice H.	N. H. '31	Pelham
Lewis, Alvin H.		Portsmouth
Lizio, Julian H.		Portsmouth

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NAME	COLL. AND DEGREE	ADDRESS
Lobdell, Lucius V.	<i>Colby '31</i>	<i>Meriden</i>
Lorden, Earl E.	<i>N. H. '21</i>	<i>Gerrish</i>
McCarthy, Mary E.		<i>Manchester</i>
McCourt, James W.		<i>New London, Conn.</i>
McCormack, John J.		<i>Fitchburg, Mass.</i>
McCue, Eunice H.	<i>Bates '29</i>	<i>Berwick, Maine</i>
McCutcheon, Helen M.		<i>Nashua</i>
McDonald, Amy C.	<i>Radcliffe '33</i>	<i>Winthrop, Mass.</i>
McDonald, Ann P.		<i>Newmarket</i>
McDougall, Ethel C.	<i>Colby '30</i>	<i>Berlin</i>
McEwan, Dora E.		<i>Dover</i>
McGirr, Genevieve C.	<i>Keene Normal '33</i>	<i>Concord</i>
McGrath, Harold E.	<i>Wesleyan '20</i>	<i>West Haven, Conn.</i>
McGrath, Mary E.		<i>Wilton</i>
MacIvor, Anna		<i>Lowell, Mass.</i>
McLaughlin, William F.		<i>Manchester</i>
MacNabb, Helen B.	<i>Bridgewater St. '04</i>	<i>Exeter</i>
MacPhee, Gladys E.	<i>Simmons '16</i>	<i>Bristol</i>
MacVicar, John A.		<i>Windham</i>
Mainini, Irene C.		<i>Milford, Mass.</i>
Manson, Barbara L.	<i>Smith '29</i>	<i>Rye</i>
Markos, Basil G.		<i>Dover</i>
Martel, Charles E.		<i>Manchester</i>
Mathews, Carroll E.		<i>Rochester</i>
Mattoon, Gertrude B.	<i>N. H. '30</i>	<i>Littleton</i>
Maynard, Helen G.	<i>N. H. '30</i>	<i>Concord</i>
Metcalf, Daniel M.	<i>N. H. '25</i>	<i>Derry Village</i>
Michael, Edward G.		<i>Rochester</i>
Miller, Flora M.	<i>Conn. '20</i>	<i>Segreganset, Mass.</i>
Moffett, Ann	<i>Plymouth Normal '29</i>	<i>Berlin</i>
Moffett, Virginia	<i>Plymouth Normal '24</i>	<i>Berlin</i>
Moody, Catherine M.		<i>Lyme</i>
Moore, Ernestine S.	<i>Maine '34</i>	<i>Morrill, Maine</i>
Morin, Mary J.		<i>Rochester</i>
Morrill, Edith S.	<i>Simmons '16</i>	<i>Manchester</i>
Morris, Robert H.	<i>Brown '30</i>	<i>Monson, Mass.</i>
Morrison, Leonard L.		<i>Hampton Falls</i>

SUMMER SESSION, 1934

NAME	COLL. AND DEGREE	ADDRESS
Morton, Rozilla B.		Portland, Maine
Newman, Theresa R.	Hunter '26	New York City
Nilson, Sevia C.	Columbia	Danbury, Conn.
Ninde, Daniel M.		Durham
Osgood, Agnes E.	Colby '26	Loudon
Osgood, Jonathan A.	N. H. '32	Raymond
Paine, Wilma M.	N. H. '24	Wolfeboro
Panagoulis, George J.		Nashua
Park, Virginia A.	Keene Normal '32	Pittsfield
Parker, Ralph H.	N. H. '17	Exeter
Patterson, Evelyn	Keene Normal	Proctor, Vermont
Patty, Margaret E.	Columbia	Minneapolis, Minn.
Pendergast, Annette D.		Exeter
Phelps, Marion D.	No. Adams Normal '14	Pittsfield
Phillips, Daisy		Rochester
Pierson, Corydon B.	Duke	Portland, Maine
Pierson, Harold L.	Syracuse '34	Meredith
Piper, Bertha L.	Keene Normal '32	Amherst
Plamondon, Bertha C.		Lebanon
Plante, Mabel F.	Keene Normal	Grasmere
Prescott, Edith H.	Radcliffe '33	Kensington
Prescott, Helen F.		So. Strafford, Vt.
Presby, Harold F.	N. H. '31	Manchester
Pritchard, Charles G.	N. H. '28	Manchester
Pritchard, Florence G.		Fall River, Mass.
Prowell, Elizabeth M.		Berlin
Rand, Gertrude H.	Earlham '35	Wilson, Conn.
Record, Hattie F.	N. H. '29	East Jaffrey
Record, Lewis S.	Brown '02	East Jaffrey
Redden, Margaret M.		Dover
Reynolds, Jotham G.		Waterbury, Conn.
Richard, Heloise E.	N. H. '30	Dover
Richard, Marc E.	N. H. '32	Dover
Ricker, Carolyn H.	Wheaton '27	Somersworth
Rizzi, Paul C.	Keene Normal '32	Milford
Robbins, Grover C.	Carnegie '21	Derry
	Pittsburg '34	

UNIVERSITY OF NEW HAMPSHIRE

NAME	COLL. AND DEGREE	ADDRESS
Robinson, Chester S.		<i>Suncook</i>
Roe, Henrietta R.	<i>N. H. '33</i>	<i>Dover</i>
Rollins, Arthur S.	<i>Dartmouth '10</i>	<i>Rochester</i>
Rourke, Eugene E.	<i>N. H. '29</i>	<i>Exeter</i>
Rowe, Willard I.	<i>Harvard '10</i>	<i>Exeter</i>
Sanders, John F.		<i>Lakeport</i>
Sargent, Alma A.	<i>Radcliffe '27</i>	<i>Concord</i>
Sawyer, Russell D.		<i>Concord</i>
Schwing, Edna M.		<i>Bridgeport, Conn.</i>
Seaward, Helen P.	<i>Keene Normal '26</i>	<i>Manchester</i>
Shackford, Louise J.		<i>Hudson</i>
Shea, Harold F.		<i>Lynn, Mass.</i>
Sheehan, Jeremiah A.		<i>Manchester</i>
Sheldon, Thetis P.		<i>Concord</i>
Sherman, Boris P.		<i>Brooklyn, N. Y.</i>
Shuttleworth, Ira V.	<i>Springfield '26</i>	<i>Pearl River, N. Y.</i>
Simpson, Lucille	<i>Skidmore</i>	<i>E. Orange, N. J.</i>
Skillings, Carleton D.	<i>N. H. '26</i>	<i>Sharon, Mass.</i>
Slobodzian, Jane O.		<i>New Haven, Conn.</i>
Smith, Eugene	<i>N. H. '32</i>	<i>New Hampton</i>
Smith, Harold M.	<i>Bay Path Inst.</i>	<i>Lakeville, Conn.</i>
Smith, John C.		<i>Lynn, Mass.</i>
Smith, Laurence J.	<i>Emerson '17</i>	<i>Franklin, Pa.</i>
Snell, Fred W.	<i>N. H. '32</i>	<i>Lisbon</i>
Stackpole, Laura V.		<i>Exeter</i>
Staples, Frema L.		<i>North Berwick, Me.</i>
Stetson, Grace B.	<i>Gorham Nor. '30</i>	<i>Brunswick, Me.</i>
Stickney, Noyes C.	<i>Brown '23</i>	<i>Keene</i>
Stolworthy, Marion J.	<i>Framingham Norm. '24</i>	<i>Durham</i>
Stone, Edith L.	<i>N. H. '30</i>	<i>Dover</i>
Stylianos, Thomas		<i>Nashua</i>
Sullivan, Catherine F.		<i>Manchester</i>
Summerville, George H.	<i>N. H. '26</i>	<i>Manchester</i>
Sundown, Roland B.	<i>Dartmouth '32</i>	<i>Canaan</i>
Surowiec, Alfreda C.		<i>Franklin</i>
Sweeney, George A.		<i>Portsmouth</i>
Sweet, Monroe H.		<i>Brattleboro, Vt.</i>
Swett, Edith C.	<i>Keene Normal '29</i>	<i>Andover</i>

SUMMER SESSION, 1934

NAME	COLL. AND DEGREE	ADDRESS
Tarr, Charles S.		East Wolfboro
Taylor, Roland A.		Bennington
Telge, Harold W.		Manchester
Terrill, Roy L.		Keene
Thomas, Elizabeth M.	Emerson	Aurora, Ill.
Thompson, Frank D.		Bradford, Mass.
Thurrell, Myron B.		Torrington, Conn.
Tonkin, Jeanette S.		Portsmouth
Toussaint, Albert R.		Berlin
Trafton, Bernette S.	Nasson Inst. '19	St. Johnsbury, Vt.
Trafton, George M.	Maine '21	St. Johnsbury, Vt.
Truell, Harold A.	N. H. '30	Amherst
Valentine, Belle G.		Concord
Wallace, Eleanor E.	N.E. Con. Music '29	Littleton
Walsh, Thomas J.		Edwardsville, Pa.
Washburn, Ella L.		Nashua
Watson, Murray H.		Lisbon
Watson, Ruth E.	N. H. '26	Dover
Weston, Ruth L.		Keene
Wheeler, Elmer P.		Concord
Wheelock, Howard E.	N. H. '32	Keene
White, Dorothy E.	Plymouth Normal '33	Newport
Whiting, Olive H.	Marshall	Charlestown, W. Va.
Williams, Dorothy	N. H. '33	Dover
Williams, Joseph B.	N. H. '26	Barre, Vt.
Winn, Cecelia L.	Keene Normal '28	Nashua
Winslow, Everett M.		Dover
Witham, Edith H.		Portsmouth
Woodman, Charles H., Jr.	Middlebury '35	Ridgewood, N. J.
Woodman, Richard S.	St. John's	Tenafly, N. J.
Worster, Juliette C.	Gorham Norm. '23	Hartford, Conn.
Wright, Ernestine B.	Bates '19	Newton Junction
Wright, Franklin T.		Charlestown
Wright, Philip L.		Nashua
Wright, Stanley W.	N. H. '30	Goffstown
Young, Olive L. (Mrs.)		Manchester



COMPARATIVE REGISTRATION

	Regular Curricula	Summer School and Short Curricula*	Men (Less dupli- cates)	Women (Less dupli- cates)	Total (Less dupli- cates)
1893-94.....	64	...	54	10	64
1894-95.....	93	15	78	30	108
1895-96.....	83	29	80	32	112
1896-97.....	88	17	79	26	105
1897-98.....	82	50	90	42	132
1898-99.....	82	10	79	13	92
1899-1900.....	86	33	103	16	119
1900-01.....	93	32	115	10	125
1901-02.....	102	29	125	6	131
1902-03.....	103	18	117	4	121
1903-04.....	110	24	126	8	134
1904-05.....	123	36	151	8	159
1905-06.....	154	41	183	12	195
1906-07.....	172	38	196	14	210
1907-08.....	183	20	188	15	203
1908-09.....	198	33	218	13	231
1909-10.....	193	55	312	16	328
1910-11.....	207	73	249	17	280
1911-12.....	231	84	285	22	315
1912-13.....	259	95	306	30	354
1913-14.....	300	103	322	63	403
1914-15.....	387	131	405	87	518
1915-16.....	461	192	505	113	653
1916-17.....	574	92	514	152	666
1917-18.....	530	32	399	163	562
1918-19†.....	593	14	439	168	607
1919-20.....	774	44	631	187	818
1920-21.....	845	46	682	209	891
1921-22.....	907	66	759	214	973
1922-23.....	1,036	161	922	275	1,197
1923-24.....	1,154	175	993	336	1,329
1924-25.....	1,202	229	1,029	402	1,431
1925-26.....	1,348	267	1,143	471	1,614
1926-27.....	1,491	317	1,217	567	1,784
1927-28.....	1,658	306	1,277	626	1,903
1928-29.....	1,553	365	1,294	624	1,918
1929-30.....	1,586	367	1,285	668	1,953
1930-31.....	1,646	382	1,297	664	1,961
1931-32.....	1,712	437	1,354	669	2,023
1932-33.....	1,673	463	1,429	610	2,039
1933-34.....	1,616	341	1,295	586	1,881

* Includes Summer School, Two-Year Agriculture, Poultry Extension and Dairy Short Curricula.

† During 1918-19 there were 1,467 additional men registered for special military work under the S. A. T. C. organization.

SUMMARY OF REGISTRATION, 1933-1934

COLLEGE	AGRICULTURE										LIBERAL ARTS							TECHNOLOGY						GRADUATE		GRAND TOTAL				
	General	Teacher Training	Poultry Husbandry	Animal Husbandry	Dairy Husbandry	Forestry	Horticulture	Agricultural Chemistry	Total	General	General Business	Pre-Law	Pre-Medical	Physical Education	Education	Home Economics	Total	Architecture	Chemical Engineering	Civil Engineering	Electrical Engineering	Mechanical Engr.	General	Total	Men	Women	Total	Men	Women	Total
REGULAR CURRICULA (CLASS)	Senior—Men.....	9	3	7	2	9	3	1	34	58	29	5	13	27	22	24	108	10	13	15	20	20	78	244	244	109	244	109	244	109
	Senior—Women.....	.....	.....	.....	.....	.....	.....	.....	.....	58	1	1	1	2	24	108	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Total.....	9	3	7	2	9	3	1	34	116	30	5	14	29	22	24	240	11	13	15	20	20	79	244	244	109	244	109	244	109	
Junior—Men.....	1	1	1	4	5	7	.....	19	67	24	1	16	23	23	15	131	11	13	13	22	16	75	225	225	85	225	85	225	85	
	Junior—Women.....	.....	.....	.....	.....	.....	.....	.....	61	1	1	1	6	15	85	85	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	1	1	1	4	5	7	.....	19	128	25	1	17	29	15	216	216	11	13	13	22	16	75	225	225	85	225	85	225	85	
Sophomore—Men.....	15	2	4	3	14	2	.....	40	85	33	3	34	25	.....	180	180	9	25	18	15	21	89	309	309	106	309	106	309	106	
	Sophomore—Women.....	.....	.....	.....	.....	.....	.....	.....	64	1	1	3	7	9	20	104	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	15	2	4	3	14	2	.....	40	149	33	4	37	34	20	284	284	10	26	18	15	21	91	309	309	106	309	106	309	106	
Freshman—Men.....	14	2	1	17	2	1	.....	37	102	27	8	25	4	.....	166	166	6	23	30	25	17	5	106	309	309	133	309	133	309	133
	Freshman—Women.....	.....	.....	.....	.....	.....	.....	.....	88	1	1	10	1	3	27	130	1	2	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	14	2	1	17	2	1	.....	37	190	27	9	35	7	27	296	296	7	25	30	25	17	5	109	309	309	133	309	133	309	133
Special—Men.....	4	.....	.....	.....	.....	.....	.....	4	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	20	20	.....	20	.....	20	.....	20
	Special—Women.....	15
Total.....	4	.....	.....	.....	.....	.....	.....	4	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	20	20	.....	20	.....	20	.....	20

UNIVERSITY OF NEW HAMPSHIRE ALUMNI ASSOCIATION

The Alumni Association welcomes to its active membership all two-year and four-year graduates, and all former students are invited to become associate members. An Alumni Office is maintained to serve the alumni, and an Alumni Fund permits alumni to voluntarily contribute to some specific University project.

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<i>2nd Vice-President</i>	Miss Ethel L. Cowles, '25, Groton, N. Y.
<i>Alumni Secretary</i>	Harry O. Page, '27, Durham, N. H.

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Sec.-Treas. Miss Lillian Hudon, '26, Durham, N. H.

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Secretary Miss Anna Van Stelten, '31, Colby School for Girls, New London, N. H.
Treasurer Paul J. Reed, '31, 378 Walnut St., Manchester, N. H.

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UNIVERSITY OF N. H. ALUMNI ASSOCIATION

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Vice-Pres. Eldred L. Sanborn, '16, 1649 N. Normandie Ave.,
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Sec.-Treas. Mrs. Russell C. Foster, 115 Meridian Ave., Alham-
bra, Calif.

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Secretary Joseph Horn, '25, 35 Oak St., Laconia, N. H.

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- President* Harold S. Brown, '16, 125 Benjamin St., Cranford,
N. J.
Vice-Pres.- Richard M. Longley, '26, 103 Shepard Ave., E. Orange,
Sec. N. J.
Treasurer Miss Bernice A. Robb, '19, 35 Tompkins St., West
Orange, N. J.

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