

Bulletin of the

Volume XXXVII

Number 3

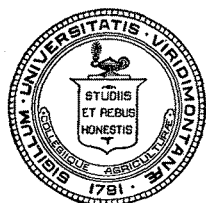
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
BURLINGTON VERMONT



CATALOGUE NUMBER
1939-1940

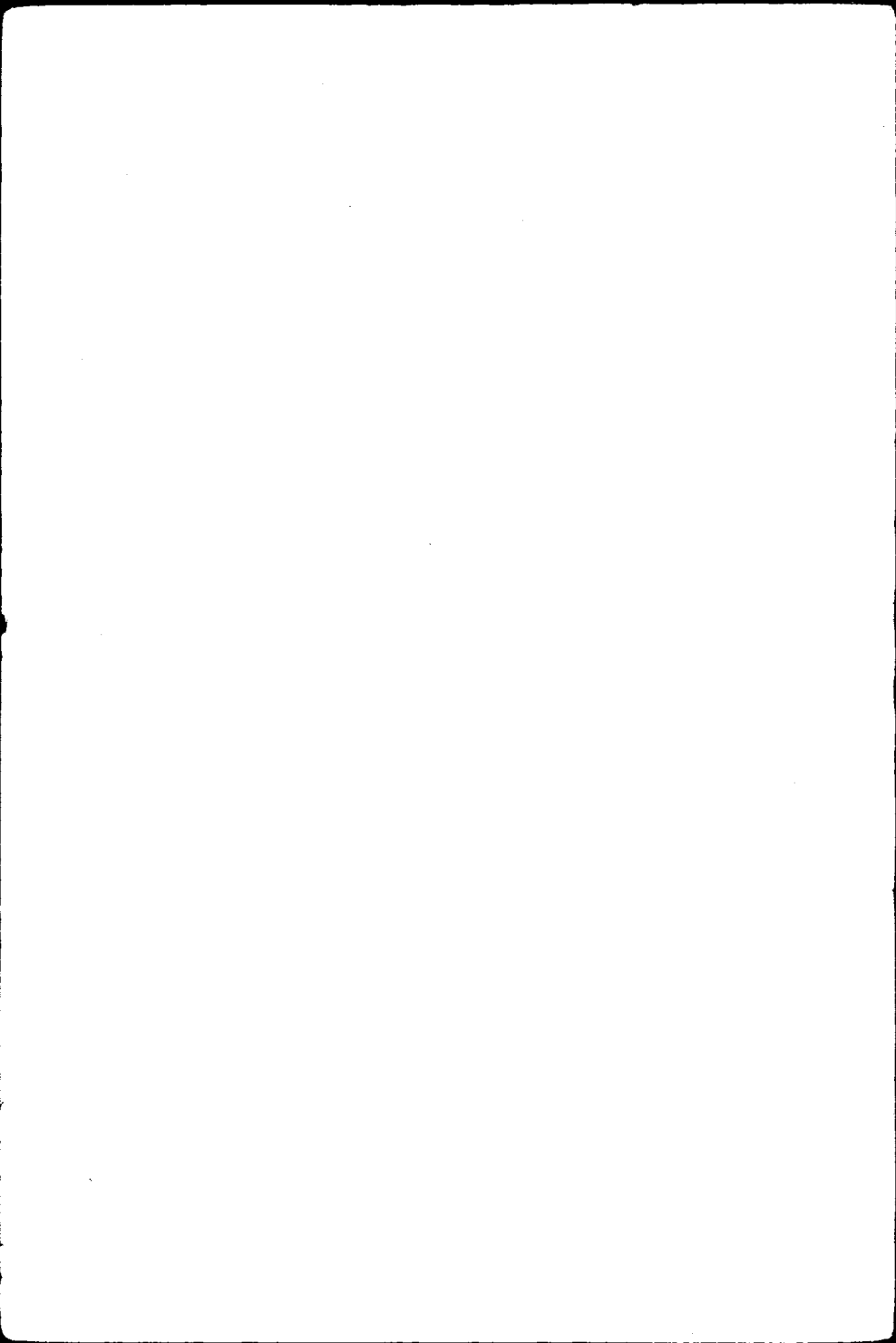
With Announcements for
1940-1941

❧ BULLETIN OF THE ❧
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
BURLINGTON - - - - - VERMONT
VOLUME XXXVII — MARCH, 1940 — NUMBER 3



THE CATALOGUE 1939-1940
ANNOUNCEMENTS 1940-1941

Published by the University of Vermont and State Agricultural College, Burlington, Vermont, four times a year; in January, February, March and October, and entered as second-class matter under Act of Congress of August 24, 1912



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Calendar

1940

JANUARY

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UNIVERSITY CALENDAR

1940

- Monday, January 29, 7.30 a.m. Class Work of the Second Semester begins.
- Friday, February 23, 12.20 p.m.
and Saturday, February 24 Kake Walk.
- Friday, March 15 and
Saturday, March 16 Educational Conference with Vermont Teachers.
- Saturday, March 30, 11.50 a.m., to
Tuesday, April 9, 7.30 a.m. Easter Recess.
- Wednesday, May 1 Founder's Day.
- Thursday, May 30 Memorial Day.
- Wednesday, May 22, to
Tuesday, June 4 Final Examinations in the Academic Colleges.
- Monday, May 27, to
Thursday, June 6 Final Examinations in the College of Medicine.
- Wednesday, June 5, to
Friday, June 7 Entrance Examinations.
- Friday, June 7, to
Monday, June 10 The Events of the Annual Commencement Week, the 149th year of the University.
- Monday, June 24, to
Saturday, June 29 State 4-H Club Week.
- Monday, July 8 to
Friday, August 16 The 1940 Summer Session.

The Academic Year, 1940-1941

- Friday, September 13, to
Monday, September 16 Entrance Examinations.
- Tuesday, September 17, 9.00 a.m. Freshman Registration and Enrollment.
- Wednesday, September 18 Opening University Convocation, President's Address, Registration and Enrollment of Former Students. Freshman Preliminary Conferences.
- Thursday, September 19 Preliminary Instruction for Freshmen.
- Friday, September 20, 7.30 a.m. Class Work of the First Semester begins.

Saturday, September 28.....	Registration for the year closes.
Thursday, October 3.....	Closing date for change of studies.
Monday, November 11.....	Armistice Day.
Wednesday, November 27, 11.50 a.m., to Monday, December 2, 7.30 a.m.....	Thanksgiving Recess.
Saturday, December 21, 11.50 a.m., to Monday, January 6, 7.30 a.m.....	Christmas Recess.

1941

Monday, January 20, to Saturday, February 1.....	Mid-Year Examinations in the Academic Colleges.
Thursday, January 23, to Saturday, February 1.....	Mid-Year Examinations in the College of Medicine.
Saturday, February 1.....	Payment of Fees; Enrollment for the Second Semester.
Monday, February 3, 7.30 a.m.....	Class Work of the Second Semester begins.
Friday, February 21, 12.20 p.m. and Saturday, February 22.....	Kake Walk.
Friday, March 14, and Saturday, March 15.....	Educational Conference with Vermont Teachers.
Saturday, March 29, 11.50 a.m., to Tuesday, April 8, 7.30 a.m.....	Easter Recess.
Thursday, May 1.....	Founder's Day.
Friday, May 30.....	Memorial Day.
Wednesday, May 28, to Tuesday, June 10.....	Final Examinations in the Academic Colleges.
Monday, June 2, to Thursday, June 12.....	Final Examinations in the College of Medicine.
Wednesday, June 11, to Friday, June 13.....	Entrance Examinations.
Friday, June 13, to Monday, June 16.....	The Events of the Annual Commencement Week, the 150th year of the University.

Administration

THE BOARD OF TRUSTEES

THE UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE

GUY WINFRED BAILEY, A.B., LL.D.

His Excellency

GEORGE DAVID AIKEN, LL.D.

President

Governor

Ex-Officio

ON THE PART OF THE UNIVERSITY OF VERMONT

Elected

1910 *EUGENE NOBLE FOSS, A.B., LL. D.

1910 NEWMAN KEYES CHAFFEE, A.B.
Rutland, Vt.

1913 †CLAYTON JOHN WRIGHT, C.E.

1935 GEORGE WILLIAM ALGER, A.B.
1165 Fifth Ave., New York, N. Y.

1936 CARROLL WARREN DOTEN, A.M.
58 Garfield St., Cambridge, Mass.

1937 HENRY BIGELOW OATLEY, B.S.
60 E. 42nd St., New York, N. Y.

1938 CASSIUS REUBEN PECK, A.B.
1059 Cumberland St., Portland, Ore.

1939 WILLARD ALVORD MITCHELL, A.B.
141 Broadway, New York, N. Y.

ON THE PART OF THE STATE AGRICULTURAL COLLEGE

1929 THOMAS CHARLES CHENEY, A.B.
Morrisville, Vt.

1933 GUY MILTON PAGE, A.B., LL.B.
32 N. Prospect St., Burlington, Vt.

1939 WILLIAM CHESTER WALKER, Ph.B.
Cabot, Vt.

1935-1941

* Resigned June 9, 1939; deceased September 14, 1939.

† Deceased, October 12, 1939.

1917	EDWIN WINSHIP LAWRENCE, A.B.	} 1937-1943
	Rutland, Vt.	
1919	HENRY MOSES McFARLAND, A.B.	
	Hyde Park, Vt.	
1937	LEWIS SMITHERS DuBOIS	
	Barnard, Vt.	
1914	WARREN ROBINSON AUSTIN, Ph.B., LL.D.	} 1939-1945
	43 Williams St., Burlington, Vt.	
1927	ROY LEONARD PATRICK, Ph.B.	
	275 S. Willard St., Burlington, Vt.	
1937	DONALD ARTHUR HEMENWAY, B.S.	
	Montpelier, Vt.	

Officers of the Board

GUY WINFRED BAILEY, A.B., LL.D.

President and Secretary

College of Medicine Building, The University of Vermont, Burlington

Committees of the Board

Executive

GUY WINFRED BAILEY
NEWMAN KEYES CHAFFEE
WARREN ROBINSON AUSTIN

GUY M. PAGE
ROY L. PATRICK
DONALD A. HEMENWAY

Finance

NEWMAN KEYES CHAFFEE
ROY LEONARD PATRICK

THE COMPTROLLER OF THE
UNIVERSITY

Auditing

WARREN ROBINSON AUSTIN

HENRY MOSES McFARLAND

Loan Funds

GUY WINFRED BAILEY

GUY M. PAGE

Honorary Degrees

WARREN ROBINSON AUSTIN

EDWIN WINSHIP LAWRENCE

GEORGE W. ALGER

Contracts and Conveyances

ROY LEONARD PATRICK

NEWMAN KEYES CHAFFEE

GUY MILTON PAGE

The Vermont Agricultural Experiment Station

The Board of Control

GUY WINFRED BAILEY
NEWMAN KEYES CHAFFEE

*CLAYTON JOHN WRIGHT
WARREN ROBINSON AUSTIN

OFFICE HOURS

The Administrative Offices

THE PRESIDENT OF THE UNIVERSITY, THE COMPTROLLER OF THE UNIVERSITY, THE REGISTRAR OF THE UNIVERSITY, AND THE CASHIER have offices in the College of Medicine Building, Rooms 1 to 6. These offices are open on business days from 9.00 to 12.00 and from 2.00 to 5.00; Saturday 9.00 to 12.00.

The Deans' Offices

These offices are open from 9.00 to 12.00 and from 2.00 to 5.00; Saturday, 9.00 to 12.00.

THE DEAN OF THE COLLEGE OF ARTS AND SCIENCES, Old College.

THE DEAN OF THE COLLEGE OF ENGINEERING, Engineering Annex.

THE DEAN OF THE COLLEGE OF AGRICULTURE, Morrill Hall.

THE DEAN OF WOMEN, Old College.

THE DEAN OF THE COLLEGE OF MEDICINE, Medical Building, Room 6.

The Military Department

THE COMMANDANT, the Armory, Gymnasium Building—7.30 to 12.00 and from 2.00 to 4.15; Saturday, 7.30 to 12.00.

The Alumni Council

SECRETARY OF THE COUNCIL, 3rd floor Medical Building—8.30 to 12.00 and 1.30 to 5.00; Saturday, 8.30 to 12.00.

* Deceased, October 12, 1939.

OFFICERS OF INSTRUCTION

Deans and Professors

(Arranged in order of seniority in the several academic grades)

GUY WINFRED BAILEY, A.B., LL.D. President of the University	203 S. Willard St.
JOSEPH LAWRENCE HILLS, B.S., Sc.D. Dean of the College of Agriculture	59 N. Prospect St.
ELIJAH SWIFT, Ph.D. Dean of the College of Arts and Sciences and Williams Professor of Mathematics	415 S. Willard St.
GEORGE FREDERICK ECKHARD, B.S., C.E. Dean of the College of Engineering and Professor of Structural Engineering	178 Summit St.
HARDY ALFRED KEMP, B.S., M.D. Dean of the College of Medicine and Professor of Bacteriology and Preventive Medicine	448 S. Prospect St.
FREDERICK TUPPER, Ph.D., L.H.D., Litt.D. Professor of the English Language and Literature	179 N. Prospect St.
JOHN BROOKS WHEELER, A.B., Sc.D., M.D. Professor Emeritus of Surgery	210 Pearl St.
*ELBRIDGE CHURCHILL JACOBS, A.M. Professor of Geology and Mineralogy and Curator of the Geological and Mineralogical Collections. In charge of the Seismograph Station	
ARTHUR BECKWITH MYRICK, Ph.D. Professor of Romance Languages and Literatures	146 Summit St.
BERTHA MARY TERRILL, A.M. Professor of Home Economics	205 S. Prospect St.
ASA RUSSELL GIFFORD, A.M. Professor of Intellectual and Moral Philosophy	119 N. Prospect St.
MARSHALL BAXTER CUMMINGS, Ph.D. Professor of Horticulture and Secretary of the Faculty of the College of Agriculture	230 Loomis St.
BENJAMIN FRANKLIN LUTMAN, Ph.D. Professor of Plant Pathology	111 N. Prospect St.
GEORGE PLUMER BURNS, Ph.D. Assistant Dean of the College of Agriculture and Professor of Botany	453 S. Willard St.
CLARENCE HENRY BEECHER, M.D. Professor of Medicine	151 Robinson Pkwy.
THOMAS STEPHEN BROWN, M.D. Thayer Professor of Neuro-Anatomy; Superintendent of the Mary Fletcher Hospital	419 S. Prospect St.
FRED KINNEY JACKSON, A.B., M.D. Professor of Physiology in the College of Medicine	75 S. Prospect St.

* Absent on leave December 20, 1939 to June 15, 1940.

DAVID MARVIN, M.D. Professor Emeritus of Pharmacology	Essex Junction
HENRY FARNHAM PERKINS, Ph.D. Professor of Zoology; Director of the Robert Hull Fleming Museum	205 S. Prospect St.
*GEORGE GORHAM GROAT, Ph.D. Professor of Economics	475 Main St.
EVAN THOMAS, B.S. Professor Emeritus of Mathematics and Mechanics in the College of Engineering	40 Robinson Pkwy.
GEORGE HOWARD BURROWS, Ph.D. Pomeroy Professor of Chemistry	393 S. Prospect St.
CHARLES FLAGG WHITNEY, M.S., M.D. Professor of Physiological Chemistry and Toxicology in the College of Medicine	19 Kingsland Ter.
HOWARD BOWMAN ELLENBERGER, Ph.D. Professor of Animal and Dairy Husbandry	55 Robinson Pkwy.
FRED DONALD CARPENTER, Ph.D. Professor of the German Language and Literature	28 Kingsland Ter.
CHARLES FRANCIS DALTON, M.D. Professor of Hygiene and Preventive Medicine	439 S. Willard St.
CHARLES KIMBALL JOHNSON, M.D. Professor of Pediatrics	26 Robinson Pkwy.
‡EDMUND CURTIS MOWER, A.M., LL.B. Professor Emeritus of Political Science	204 S. Willard St.
BENNETT COOPER DOUGLASS, Ph.D. Professor of Education and Director of the Summer Session	122 Summit St.
ERNEST HIRAM BUTTLES, A.B., M.D. Professor of Pathology; Secretary of the Faculty of the College of Medicine	457 S. Willard St.
ARTHUR DEXTER BUTTERFIELD, M.S., A.M., D.Eng. Professor of Mathematics and Geodesy	25 Colchester Ave.
LYMAN ALLEN, A.B., M.S., M.D. Professor of Surgery	278 Main St.
†HOWARD GORDON BENNETT, A.M. Professor of Music	
JAMES CHARLES O'NEIL, B.S., M.D. Professor of Psychiatry	Waterbury
LESTER MARSH PRINDLE, Ph.D. Professor of Classical Languages and Literatures	380 Maple St.
MASON HERBERT CAMPBELL, Ph.D. Professor of Dairy Production	282 S. Prospect St.
JAMES ATKINS BULLARD, Ph.D. Professor of Mechanics and Mathematics; Secretary of the Faculty of the College of Engineering	110 Summit St.
PAUL DEMUND EVANS, Ph.D. Professor of History	261 S. Prospect St.

* Absent on leave, first semester 1939-1940.

† Absent on leave, 1939-1940.

‡ Deceased April 25, 1940.

GEORGE MILLAR SABIN, B.S., M.D. Professor of Clinical Surgery	217 S. Union St.
PAUL ROBERT MILLER, M.S. Professor of Agronomy	45 Robinson Pkwy.
LOUIS BLACKMER PUFFER, C.E. Professor of Civil Engineering	176 Loomis St.
RALPH MAYNARD HOLMES, Ph.D. Professor of Physics	140 Ledge Rd.
EDD RUTHVEN McKEE, M.S., E.E. Professor of Electrical Engineering	42 Henderson Ter.
MERRILL ELLICOTT SPALDING, B.S. Colonel, Infantry, U. S. Army Professor of Military Science and Tactics	216 S. Willard St.
WILMER CLAYTON DREIBELBIES, M.D. Lieut.-Col., Medical Corps, U. S. Army Professor of Medico-Military Science	Jericho
HOVEY JORDAN, Ph.B., M.S., A.M. Professor of Histology and Embryology	449 S. Prospect St.
EMMUS GEORGE TWITCHELL, A.B., M.D. Professor of Ophthalmology, Otolaryngology and Rhinology	88 S. Willard St.
HERBERT ASHLEY DUFFEE, A.B., M.D. Professor of Obstetrics	347 S. Union St.
ARTHUR BRADLEY SOULE, JR., A.B., M.D. Professor of Radiology	144 Ledge Rd.
OLIVER NEWELL EASTMAN, M.D. Professor of Gynecology	170 Spruce St.
JOHN TRUMBULL METCALF, Ph. D. Professor of Psychology	35 Kingsland Ter.
HAROLD BARNARD PIERCE, Ph.D. Professor of Physiological Chemistry in the College of Medicine	360 College St.
DANIEL BERNARD CARROLL, Ph.D. Professor of Political Science	89 S. Willard St.
HARRY LAWRENCE DAASCH, M.S., E.Met., M.E. Professor of Mechanical Engineering	102 Robinson Pkwy.
ERNEST OLIVER HERREID, Ph.D. Professor of Dairy Manufacturing	49 University Ter.
WILLIAM GURNEY KIRBY, A.B. Acting Professor of Music	34 University Ter.
EUGENE FREDERICK TRAUB, B.S., M.D. Visiting Professor of Dermatology	140 E. 54th St. New York, N. Y.
FRANK ROBERTS OBER, M.D. Visiting Professor of Orthopedic Surgery	234 Marlborough St. Boston, Mass.
JAMES NORMAN PETERSEN, B.S., M.D., C.M. Visiting Professor of Neurology	3801 University St. Montreal, Canada
ADOLPHUS DUNCAN ROOD, M.D. Visiting Professor of Bronchoscopy	146 Chestnut St. Springfield, Mass.

Associate Professors

WELLINGTON ESTEY AIKEN, A.M. Associate Professor of English; Secretary of the University Senate	52 N. Prospect St.
ROY ORVILLE BUCHANAN, B.S. Associate Professor of Electrical Engineering	23 Hillcrest Rd.
JOHN BELLOWS DEFOREST, Ph.D. Associate Professor of Romance Languages	327 S. Prospect St.
GEORGE DYKHUIZEN, Ph.D. Associate Professor of Philosophy	350 S. Prospect St.
*JULIAN IRA LINDSAY, A.M. Associate Professor of English	292 S. Prospect St.
GEORGE VINCENT KIDDER, Ph.D. Associate Professor of Classical Languages and Literatures; Secretary of the Faculty of the College of Arts and Sciences	206 Summit St.
KENNETH JOSEPH SHELDON, A.M. Associate Professor of Agricultural Education	20 Brookes Ave.
LELAND LAWRENCE BRIGGS, M.B.A. Associate Professor of Economics	13 Bay View St.
ELEANOR STENSON CUMMINGS, A.B. Associate Professor of Physical Education for Women	153 S. Prospect St.
CHARLES ALLEN KERN, B.S. Associate Professor of Chemistry	74 S. Winooski Ave.
ELEAZER JOHNSON DOLE, Ph.D. Associate Professor of Botany	433 S. Prospect St.
PAUL KENDRICK FRENCH, Ph.B., M.D. Associate Professor of Clinical Medicine	223 Pearl St.
PAUL AMOS MOODY, Ph.D. Associate Professor of Zoology	197 Howard St.
CHARLES ERNEST BRAUN, Ph.D. Associate Professor of Organic Chemistry	67 Robinson Pkwy.
PERCY AUSTIN FRALEIGH, Ph.D. Associate Professor of Mathematics	160 Shelburne St.
HOWARD ANDERSON PRENTICE, B.S., A.M. Associate Professor and Director of Physical Education for Men	132 Spruce St.
WILLIAM GRAVES TOWNSEND, B.S., M.D. Associate Professor of Urology	32 Cliff St.
FLORENCE MAY WOODARD, Ph.D. Associate Professor of Economics	475 Main St.
EDMUND LOUIS SUSSDORFF, Ph.B., M. E. Associate Professor of Mechanical Engineering	357 S. Prospect St.
RAY GILBERT DAGGS, Ph.D. Associate Professor of Physiology in the College of Medicine	29 Adsit Ct.

* In resident historical research 1939-1940.

Officers of Instruction

15

DORIS FRANCES LAKE, A.M. Associate Professor of Home Economics	Home Management House
WILLIAM RITCHIE ADAMS, JR., Ph.D. Associate Professor of Forestry and Botany	36 Overlake Pk.
ALEXANDER GERSHOY, Ph.D. Associate Professor of Botany	421 North St.
PARKER BROWN WILLIS, Ph.D. Associate Professor of Economics	301 College St.
JOHN ALVIN NEWLANDER, Ph.D. Associate Professor of Dairy Husbandry	45 University Ter.
CATHERINE FRANCES NULTY, Ed.M. Associate Professor of Economics (Secretarial)	9 S. Union St.
BIRD JOSEPH ARTHUR BOMBARD, M.D. Associate Professor of Clinical Surgery	24 Orchard Ter.

Assistant Professors

HAROLD IRVING WILLIAMS, B.S. Assistant Professor of Electrical Engineering	34 Elmwood Ave.
AMOS BUSH WILLMARTH, A.M., M.S. Assistant Professor of Chemistry	33 Buell St.
GENNETTE CLAIRE DAVIS, A.M. Assistant Professor of Economics (Secretarial)	151 S. Prospect St.
HOWARD GUY MILLINGTON, C.E. Assistant Professor of Mathematics in the College of Engineering	224 Plattsburg Ave.
ROBERT LELAND MAYNARD, M.D. Assistant Professor of Surgery	289 College St.
FLORENCE EMILY BAILEY, M.S. Assistant Professor of Home Economics	54 S. Willard St.
FRED WALTER HOUSEHOLDER, A.M. Assistant Professor of Mathematics	15 Wilson St.
KATHRINA HABBERTON STORMS, A.B. Assistant Professor of English	61 N. Prospect St.
SARA MOULTHROP HOLBROOK, Pd.B., A.M. Assistant Professor of Education	205 S. Prospect St.
JAMES EUGENE POOLEY, A.M. Assistant Professor of Classical Languages and of History	9 Handy Ct.
GRACE BURWASH, A.M. Assistant Professor of Home Economics	151 S. Prospect St.
BENJAMIN FRANKLIN LADD, A.M. Assistant Professor of German	44 Overlake Pk.
ALIDA BEATRICE FAIRBANKS, A.M. Assistant Professor of Home Economics	249 Pearl St.

GENO BLAISE LUCARINI, B.S. Assistant Professor of Mechanical Engineering	324 Main St.
EDWARD JAMES ROGERS, M.D. Assistant Professor of Clinical Medicine	Pittsford
WENDELL EVERETT JAMES, M.S., M.D. Assistant Professor of Bacteriology and Hygiene	12 Handy Ct.
LLOYD ABRAM WOODWARD, M.S. Assistant Professor of Physics	82 Henry St.
LEON W. DEAN, A.B. Assistant Professor of English	308 S. Prospect St.
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*ROBERT KINGSLAND DOTEN, Ph.D. Assistant Professor of Geology (<i>pro tempore</i>)	236 S. Union St.

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* Appointed for the period January 3 to June 15, 1940.

† Absent on leave.

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LOUIS GEORGE THABAULT, M.D. Instructor in Surgery	71 Main St. Winooski
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JOHN HENRY McCREA, B.S., M.D. Assistant in Medicine	154 Park St.

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JOHN JOSEPH MAYERNICK Research Fellow (Agronomy)	41 University Ter.
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JANE ELIZABETH SLATER, A.B. Research Fellow (French)	239 S. Prospect St.
LORNE THOMAS SONLEY, B.S.A. Research Fellow (Agricultural Economics)	339 S. Prospect St.
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AARON HINMAN GROUT, Ph.B. Lecturer in Medical Jurisprudence	200 Main St.
DAVID MANSON, D.D.S. Lecturer in Oral Hygiene	79 S. Willard St.

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* On leave, December 20, 1939 to June 15, 1940.

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SOCIAL LIFE—Kidder, Bullard, Prentice, Miss Simpson, Swift.

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LORNE THOMAS SONLEY, B.S.	489 Main St.
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* On leave for year 1939-40.

† Interim appointment.

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JOHN ALVIN NEWLANDER, Ph.D. Associate Animal and Dairy Husbandmen	45 University Ter.
JAMES MARSHALL FRAYER, M.S. Associate Dairy Bacteriologist	281 S. Winooski Ave.
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EVERETT ARTHUR KEYES, M.S.	46 East Ave.
JOSEPH GORDEN LEEDER, B.S. Assistant Animal and Dairy Husbandmen	77 Buell St.
ROBERT JENNESS, B.S.	60 Colchester Ave.
HEZEKIAH GOODWIN WEBSTER, JR., B.S. Research Fellows	60 Colchester Ave.

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ALEXANDER GERSHOY, Ph.D.	421 North St.
WILLIAM RITCHIE ADAMS, Jr., Ph.D.	36 Overlake Pk.
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WILLIAM RAY RATLEDGE, B.S.	59 Buell St.
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*JOHN DAVID ERIT, M.S.	
FRED BRISSON Assistant Chemists	39 Grove St.

* Deceased March 2, 1940.

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Assistant Research Home Economist
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ERWIN WHEAT JENKINS, M.S. 25 Booth St.
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Plant Pathologist
WINONA EMYLE STONE, M.S. Essex Junction
Assistant Plant Pathologist

Regulatory Service

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Chemist
EUGENE FIELD BOYCE, B.S. S. Burlington
†LESLIE ELMER DAVIS, B.S.
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* Absent on leave, October, 1939 to February, 1940.

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THE SUMMER SESSION, 1939

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LLOYD A. WOODWARD, M.S.

Assistant Professor of Physics

REUBEN R. ZILE, M.S.

Vermont Project Manager U. S. Soil Conservation Service

General Information

LOCATION

The University of Vermont and State Agricultural College is located in Burlington on Lake Champlain, a beautiful residential city of more than twenty-five thousand people. The buildings of the University are situated on the summit of the hill upon which Burlington is built. The campuses command a western view of the lake and the Adirondack Mountains and an eastern view of a part of the Green Mountain range including Mount Mansfield and Camel's Hump.

Burlington is a desirable home for the University. It is served by two railway and by several motor bus lines. It offers many cultural advantages which supplement those provided by the University.

In the valley of Lake Champlain there are many points famous for their historical associations. The names of Ira and Ethan Allen—the former having proposed to the Legislature the founding of the University—of Generals Amherst and Montcalm, Philip Schuyler, Commodore Macdonough and others connected with early American history, give color to this region.

CHARTERS AND CORPORATIONS

HISTORY OF THE ACADEMIC COLLEGES

The original Constitution of the independent republic of Vermont, the draft of which was completed at Windsor, July 2, 1777, just as the news came of Burgoyne's invasion of the valley of Lake Champlain, contained in Section 40, relating to education, this declaration: "One grammar school in each county and *One University in the State* ought to be established by direction of the General Assembly." Though omitted from subsequent revision, this was the earliest declaration in the constitution of any American State in favor of a single State University.

When Vermont proceeded to grant townships, and it granted many of them in the years immediately following the organization of the State, in almost every instance a grant of one right of land was made for a college; and these grants subsequently became the property of the University of Vermont. One of the most active of the men who interested themselves

in establishing an institution of higher learning in the State was Ira Allen, to whom Vermont is indebted perhaps more than to any other man for its existence as a State and for the preservation of its integrity during the troubled years preceding its admission to the American Union. In 1789 Allen, while a member of the Legislature, offered to give four thousand pounds if such an institution were established at Burlington. The Legislature declined to accept the offer but appointed a committee to consider locations for the proposed University.

The first General Assembly after the State became a member of the Federal Union granted the charter of the University of Vermont, November 2, 1791; and by a vote of 89 to 37 for all other places, the University was located at Burlington. The corporation of the University was organized the day the law creating it was enacted and Ira Allen was one of its members.

The preamble and first section of the charter read as follows:

"WHEREAS, the education of youth is necessary for the advancement of morality, virtue and happiness, and tends to render a people or State respectable; to promote which, establishments for Seminaries and Colleges have ever been patronized by all good governments; and whereas several grants of land have already been made by the State and private liberal donations have been offered, for promoting so needful an establishment within the same, which demand the attention of this Legislature for laying the foundation of an institution so beneficial to society; therefore

"IT IS HEREBY ENACTED by the General Assembly of the State of Vermont, that there shall be and hereby is a College instituted and established at such a place in the township of Burlington in the County of Chittenden as the Corporators hereinafter named shall think most convenient for that purpose, to be known and designated by the name of THE UNIVERSITY OF VERMONT."

The charter provided that the Governor of the State, the Speaker of the House, and the President of the University should be members of the governing board, and vested in the Trustees of the University of Vermont full power "to appoint, elect, support, and remove from time to time, all such officers and servants as they shall find necessary; to direct the studies of the youth; to establish professorships and professors, and provide for their support; to make and establish all necessary rules, regulations and by-laws, for the orderly government of said University (provided always that the said rules, regulations, and by-laws shall not tend to give preference to any religious sect or denomination whatso-

ever); to grant and confer such degrees, literary titles, honors, and other distinctions as other Universities, Colleges and Seminaries have done or may of right do; and to do any other thing which shall be found necessary for the government and welfare of such an institution." In 1810 the General Assembly passed a law providing that thereafter the Assembly and Council in joint session should elect all Trustees of the University of Vermont. This law was later repealed and the nine Trustees of the University of Vermont now elect their successors.

After the charter had been granted, there was considerable delay in the establishment of the University, due in part, it is probable, to the absence from the country of Ira Allen. In 1800, the first University President was elected, and instruction was begun by President Daniel C. Sanders. The first class was graduated in 1804. Since the University was opened it has continued the work for which it was organized with the exception of a period during the War of 1812, when the United States Government took possession of the main college building, using it for an arsenal and barracks.

The first college building, a wooden structure four stories high, was burned on May 27, 1824. With contributions secured locally three brick buildings, built in line but about eight feet apart, were constructed. The corner stone of the South College was laid by General Lafayette on June 29, 1825.

In 1862, principally through the exertions of Hon. Justin S. Morrill, then a Representative and later a Senator from Vermont, Congress passed an "act donating public lands to the several States and Territories which may provide colleges for the benefit of agriculture and the mechanic arts." Under the provisions of this act the Legislature of Vermont in 1864 finally chartered the Vermont Agricultural College. The purposes of the Vermont Agricultural College were thus stated in its charter:

"The leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions in life."

Efforts to secure funds necessary under the law for the establishment of the Agricultural College were unsuccessful and the difficulty was met by joining under mutual agreement the corporation of the Vermont Agricultural College with that of the University of Vermont in a new corporation named the University of Vermont and State Agricultural College. The new charter was approved November 6, 1865. The University of Vermont and State Agricultural College by the terms of its charter is vested with the property, rights, powers and privileges which belonged

to both or either of the corporations so combined, and according to the terms of the act of incorporation, "shall be and remain a body corporate forever for the purpose of carrying out the objects contemplated in the respective charters" of the two institutions, namely: The University of Vermont, chartered in 1791, and the Vermont Agricultural College, chartered in 1864. The University of Vermont and State Agricultural College has, therefore, continued the courses in arts and sciences under the charter of the University of Vermont and the Colleges of Agriculture and Engineering under the charter of the Vermont Agricultural College, but the corporate existence of the constituent corporations is expressly continued under section 11 of the charter of the University of Vermont and State Agricultural College.

Gifts and bequests therefore may be made to (1) The University of Vermont, (2) The Vermont Agricultural College, (3) The University of Vermont and State Agricultural College.

By the provisions of an act of Congress, approved August 30, 1890, "to apply a portion of the proceeds of the public lands to the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts established under the provisions of an act of Congress approved July 2, 1862," and acts supplementary thereto, approved March 4, 1907, and June 29, 1935, the institution receives from the United States Treasury annual appropriations "to be applied only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematical, physical, natural and economical science, with special reference to their applications in the industries of life and to the facilities for such instruction."

The four-year courses in Agriculture were established in 1891. Home Economics was first taught in 1908.

The Vermont Agricultural Experiment Station was established as a department of the University of Vermont and State Agricultural College by the State Legislature of 1886. It receives the funds allotted to the State in accordance with the provisions of the Federal laws of 1887, 1906, 1925, and 1935, and certain State funds by virtue of a legislative act first passed in 1927. It also receives the fees paid to the State by commercial fertilizer, feed and seed vendors for the purpose of the conduct of regulatory work.

The Vermont Agricultural Extension Service was established as a department of the University of Vermont and State Agricultural College by the State Legislature of 1912. It receives the funds allotted to the State in accordance with the provisions of the Federal laws of 1914, 1928, 1935 and 1939. It also receives State and local funds in accordance with (a) Section 4484 of the Public Laws of Vermont; (b) Sections 4631-42

of the Public Laws of Vermont as amended in Number 102 of the Acts of 1935 and Number 100 of the Acts of 1937; (c) Section 24 of Number 96 of the Acts of 1939, and (d) local farm bureau association funds.

Courses in certain branches of Civil Engineering were first offered in the University of Vermont in 1829, it being one of the first institutions of higher learning in the United States to give such instruction.

In 1866 a three-year and in 1869 a four-year curriculum in civil engineering was established as provided in the Federal Land-Grant Act of 1862. In 1891 curricula in electrical and mechanical engineering were established.

Women were first admitted to the University in 1872.

HISTORY OF THE COLLEGE OF MEDICINE

The College of Medicine of the University of Vermont is the sixth oldest institution of its kind in the United States. A lecturer on Chirurgery and Anatomy was appointed by the Trustees of the University Corporation on August 16, 1804. In 1822 a full course of Medical Lectures was offered by an association of doctors who, under a cooperative arrangement with the Trustees of the University of Vermont, became the first faculty of the College of Medicine. The University approved faculty appointments and voted the degrees but assumed no financial responsibility for the school.

In 1829 a Medical College building was erected which is still standing at the south end of the University Campus. In 1836 the enterprise was abandoned because of the death of some of its leading spirits and for lack of students. There had been graduated up to that time one hundred and sixteen men.

The reorganization and successful reestablishment of this school were due chiefly to the efforts of Dr. S. W. Thayer, then a practitioner at Northfield. His efforts began in 1840 and finally were successful in 1853. The prosperity of the newly organized department in 1854 soon became manifest, and a material enlargement of the Old Medical College building, at the head of Main Street, became necessary. Subscriptions were secured and the necessary improvements were made. In 1870 the citizens of Burlington contributed an additional sum to enlarge the building by the addition of a wing and to increase the seating capacity of the two lecture rooms. In 1884 the late John P. Howard generously gave a building at the head of Pearl Street which was occupied first in 1885.

After 1900 the connection between the Medical College and the University became closer and finally on December 4, 1908, the Trustees of the University of Vermont and State Agricultural College voted to "take under their complete control and management the Medical Department."

In 1903 the course was lengthened to seven months and in 1907 to seven and one-half months, giving thirty-two weeks of actual instruction. In December, 1903, the building which had been occupied by the College was destroyed by fire. A new building was begun in July, 1904, and was dedicated in June, 1905.

The College of Medicine, as an approved institution has increased the admission requirements a number of times since it became an integral part of the University. Three years of arts credit is now the minimum prerequisite to an application. Women were first admitted in 1920. The curriculum was extensively reorganized in 1937.

Buildings and Grounds

EDUCATIONAL BUILDINGS

THE COLLEGE OF MEDICINE BUILDING (*Erected 1905*)

This building, located at the north end of the College Green, is a three-story structure of fireproof construction. Besides laboratories, lecture halls and recitation rooms used by the classes of the Medical College, it contains the Medical Library, the Pathological and Anatomical Museums, the Medical Book Store and the Sandwich Cellar.

The administrative offices of the President, Comptroller, Registrar, Dean of the College and the Alumni Council are located in this building.

THE IRA ALLEN CHAPEL (*Dedicated 1927*)

Located at the north end of "College Row" on University Place is the Ira Allen Chapel, named for the founder of the University and given by the late James B. Wilbur. The chapel is recognized as a fine example of Georgian architecture. The lofty bell and clock tower is a conspicuous feature of the building. Its beacon light is visible for many miles.

The chapel has an excellent three manual organ which serves for student instruction and recital programs as well as its customary use in the various services. The pews accommodate more than a thousand people.

THE BILLINGS LIBRARY (*Erected 1885*)

This building, the gift of the late Frederick Billings of Woodstock, is an example of the best work of the famous architect H. H. Richardson. It is built of Longmeadow sandstone. Beautifully grained Georgia pine is used as the interior finish and both the exterior and interior of the

building are rich in ornament. Mr. and Mrs. Billings gave one hundred and twenty-five thousand dollars as an endowment fund for the building.

The Library contains over one hundred and fifty thousand volumes and forty-five thousand pamphlets and is the largest collection of books in the State. It has a classified shelf arrangement, dictionary catalogue, special bibliographies and other modern facilities and aids for convenient use. The shelves are accessible to readers, except in the special collections. All the leading periodicals, including many foreign ones, and the most important transactions of learned societies are received currently.

All the administration is directed toward making the Library the active center of the intellectual life of the University and an auxiliary to every teaching department. Attention is given to directing the students how to use the catalogues, reference books and special bibliographies, and in general research work. Books selected by professors for supplemental reading in connection with class work are "reserved" on special shelves for students in those classes.

The Library is open from 8.15 in the morning to 9 in the evening and from 2 to 6 on Sunday afternoons in term time, with shorter hours during vacations. The privileges of the Library are granted freely to those not connected with the University and books are loaned frequently to high schools and to persons living at a distance. The students also have the use of the Fletcher Free Library of the city, a collection of about sixty thousand volumes of such selection and so liberally administered as very helpfully to supplement the University Library.

Among the special collections of the Billings Library is the private collection of George Perkins Marsh, former resident of Burlington, author, scholar, and United States Minister, first to Turkey and later to Italy. This comprises twelve thousand eight hundred and eighty-two volumes and is especially rich in philology, European history and literature, and physical geography. The collection is contained in a handsome room built in 1887 especially to receive it.

The Hawkins Collection, given to the University by the late Gen. Rush C. Hawkins, is also a notable one, containing several thousand books and pamphlets relating to the Civil War period. This collection has been greatly augmented by the gift of Gen. O. O. Howard's valuable military library, the gift of his son, Harry S. Howard.

The Library is also in possession of an interesting collection of rare and valuable early books, first editions, manuscripts, and autographs.

On the walls of the Library hang portraits of Ira Allen, the founder of the University; Frederick Billings, the donor of the building; several of the Presidents and others intimately associated with the life of the institution.

Supplementing the extensive collection of the works of Vermont authors, books descriptive of Vermont and those with Vermont imprints which are in the Billings Library, the University has received and catalogued the valuable Vermont library of the late James B. Wilbur. The books, pamphlets, maps, manuscripts and photostats in this collection are deposited in the Wilbur Room of the Fleming Museum. Gifts for the Vermont collection always are welcome.

The Medical Library containing about ten thousand volumes is in the College of Medicine building. One hundred sixty current medical journals are on file and loose-leaf systems of medicine and surgery are kept up to date. This Library is open from 9 a.m. to 5 p.m., Saturdays 9 to 12 noon. It is open on Tuesdays and Fridays during the evening.

The Agricultural Library is in Morrill Hall. It contains several thousand volumes and many thousand pamphlets and journals dealing with agriculture, horticulture and veterinary science. Departmental libraries are located in the offices of the station agronomist, animal husbandman, agricultural economist, botanist, chemist, regulatory chemist, horticulturist, as well as in the Extension Service Buildings.

In addition to the main collections of books in the Billings, Marsh, Wilbur, Agricultural and Medical Libraries there are departmental libraries in the Williams Science Hall, the Engineering Annex, and the Old College Building.

THE FLEMING MUSEUM (*Erected 1931*)

The Robert Hull Fleming Museum was made possible by the generosity of the late James B. Wilbur of Manchester, Vt., of Miss Katherine Wolcott of Chicago, Ill., and of six other friends of the University. It is named in honor of Miss Wolcott's uncle, a graduate of the class of 1862.

The south wing of the building, known as the Wilbur Room, was built especially to receive the collection of books, documents and maps that were presented to the University by the late James B. Wilbur. The Fleming Room, adjoining the beautiful two-storied Entrance Hall, is given over to the treasures of art gathered by Mr. Fleming during many years of travel.

The exhibition rooms in the Museum contain frequently changed collections in geology, mineralogy, paleontology, all branches of zoology, ethnology and archaeology, and early Vermont furniture, utensils and costumes. The bird room and Cannon Room are noteworthy.

The art collections of the Museum consist of paintings, engravings and sculpture. They have recently been supplemented by many reproductions of paintings. The collections include one thousand photographs,

prints and engravings representing nearly every school of art. The Carnegie Art Reference Set, a teaching collection of over two thousand books, photographs, textiles and prints, to which additions are frequently made, is an important part of the Art Library.

Many loan exhibitions are secured from individuals, other museums and galleries by the Fleming Museum Art Association, which cooperates in all art activities, including lectures on art. Fifteen to twenty different exhibitions are held in the Art Gallery each year.

Programs of entertainment and instruction are offered each Saturday to the young people of the city. The facilities and exhibits of the Museum are made available to all the schools of Vermont and are extensively used.

The staff is supplemented by a very large amount of volunteered aid, much of it continuous.

The Museum is open every day of the year, except Christmas and New Year's Day, from two to five o'clock. During the summer the building is also open to the public on week day mornings.

THE SEISMOGRAPH STATION

The Seismograph Station, operated in connection with the Department of Geology, is located in an underground vault connected with the Fleming Museum. The equipment consists of two Milne-Shaw seismographs and a short period Benioff vertical seismometer. The observations of the Station are sent regularly to the Seismology Branch of the Coast and Geodetic Survey at Washington.

THE COLLEGE OF ENGINEERING BUILDINGS (*Erected 1891*)

In the main Engineering Building are located, besides the lecture and drafting rooms, the wood working shop, the testing laboratory, the mechanical engineering laboratory, the hydraulics laboratory, the machine shop and the forge shop. The central heating plant, which is an annex to this building, is used by the Department of Mechanical Engineering for experimental purposes. Additional lecture and drafting rooms and offices are located in the Engineering Annex. The cement and highway materials testing laboratory is in this building. The electrical engineering laboratories are in the Williams Science Hall.

THE WILLIAMS SCIENCE HALL (*Erected 1896*)

In this fireproof building, given to the University by the late Dr. Edward H. Williams of Philadelphia, are classrooms and laboratories of the Departments of Chemistry, Physics, Botany, Zoology, Geology and Electrical Engineering, and also a reference library of over three thousand scientific books and periodicals pertaining to these departments.

The Herbaria of the University are kept in this building. The early collections of Professor Joseph Torrey, supplemented by those of Charles G. Frost, J. Lewis Dutton and Cyrus G. Pringle, comprise more than two hundred thousand specimens. The Pringle Herbarium is unsurpassed in quality by any collection and in size it ranks as one of the largest collections in America.

THE OLD COLLEGE BUILDING (*Erected 1825, Reconstructed 1883*)

The Old College is the principal recitation building of the College of Arts and Sciences. It stands on the site of the first college building begun in the spring of 1801 and destroyed by fire in 1824. Three brick buildings, built in line but about eight feet apart, were completed in 1830. The corner-stone of the South College was laid by General Lafayette on June 29, 1825. Shortly before 1850 the three buildings were joined by a continuation of their east and west walls, one structure resulting. The Old College, or the "Old Mill," as it has been called by many generations of students, assumed its present form in 1883, as the result of a gift by John P. Howard. In the Middle College, on the first three floors are the Education Department and Summer Session offices; the Old College Chapel; the University Store, which sells textbooks and student supplies, and the Coffee Corner, a fountain-lunch service under the management of the University Stores. North and South College provide recitation rooms and offices for the College of Arts and Sciences. The offices of the Dean of the College of Arts and Sciences, and the Dean of Women are in North College. The office of the Secretary of the Vermont Christian Association, with the Rooming and Employment Bureau, is in South College. From the tower of the Old College Building a magnificent view of the Champlain valley and the Adirondack and Green Mountains may be obtained.

THE MEN'S GYMNASIUM (*Erected 1901*)

The main recreation floor of the Gymnasium for Men is one hundred twenty feet long and sixty feet wide. In addition to the usual facilities there are special rooms for handball, squash, boxing, wrestling and corrective exercises.

The north side of the building is occupied as an armory by the student battalion. The shooting galleries, and military storerooms are located in the basement. Offices for the Commandant, the Director of Physical Education for men and the Graduate Manager of Athletics are provided.

Attached to the Gymnasium building is an extension, one hundred and twenty feet by one hundred feet, with glass roof, and dirt floor. This

was erected in 1911 and is used as a drill hall and baseball cage, as well as for indoor track, tennis and badminton.

MORRILL HALL (*Erected 1907*)

This building, a memorial to Justin Smith Morrill, for nearly forty-four years in continuous service as Representative or Senator from Vermont, and the father of the Land-Grant Colleges and Universities of the United States, was erected by the State for the uses of the College of Agriculture. It provides class and laboratory rooms for instruction in technical Agriculture and Home Economics, the Agricultural Library, consisting of about six thousand volumes, and the administrative offices of the College of Agriculture. It also provides some of the offices and the research chemical laboratory of the Agricultural Experiment Station.

THE COLLEGE GREENHOUSES (*Erected 1911*)

A set of three greenhouses with head house is located in the rear of Morrill Hall. They provide facilities for instruction in Botany, Plant Physiology, Pomology, Floriculture, Greenhouse Management and Forestry, and for experimental work in Plant Pathology, Horticulture, Botany, Forestry, and Genetics.

EXPERIMENT STATION ANNEX

This building, located at 489 Main Street, was erected in 1829 for the use of the Medical College. It was remodeled in 1925 for the Experiment Station, more particularly its departments of Animal and Dairy Husbandry, Agricultural Economics, Home Economics and Regulatory Work.

AGRONOMY BUILDING (*Acquired 1906*)

This building, now located at 590 Main Street, was built in 1809. It was moved from the present site of Morrill Hall, served as a farm boarding house for over twenty years, and in 1929 and 1930 was remodeled for use by the Department of Agronomy of the Experiment Station. The building also contains a laboratory and classroom used for collegiate instruction in Agronomy and a greenhouse for agronomical research. Some of the Agricultural Extension offices are temporarily located in this building.

HOME MANAGEMENT PRACTICE HOUSE (*Acquired 1911*)

This building is located at 26 Summit Street and is used as a practical laboratory for home management by the Home Economics Department. The Home Economics students live at the house in turn during a portion of the four years of their course. The work performed by the students

is supervised and constitutes a part of the required laboratory work with credit. Board to such students, during the period of residence in the house, is charged at five dollars per week. The Home Economics Department occupies an annex in the rear of this building which is used for instruction and for the laboratory testing of pre-school children.

AGRICULTURAL EXTENSION BUILDINGS

The building located at 481 Main Street, just west of the Experiment Station Annex, is occupied as an administration building by the Agricultural Extension Service. Parts of the buildings at 43 South Prospect Street and 129 North Prospect Street are used by the agricultural economics department and the animal industry departments of the Extension Service. The office of the extension agronomist is in the Agronomy Building.

AGRICULTURAL FARM BUILDINGS

The University farm buildings, erected in 1891 and subsequently, include horse and cattle barns, stock judging arena, piggeries, poultry and tool houses. The foreman's dwelling house is located at 634 Main Street.

THE MUSIC BUILDING (*Acquired 1924*)

This building is located at 85 South Prospect Street, and provides offices, studios, recitation and practice rooms for the Department of Music. It also houses the Carnegie College Music Set, consisting of an electric phonograph, about 900 phonograph records, about 100 books on music and many scores, which are available for use by all members of the University. The Publicity Bureau has offices in the west wing. This building will be razed in 1940 to provide a site for the proposed Waterman Memorial Building.

THE MABEL LOUISE SOUTHWICK MEMORIAL (*Erected 1936*)

This building is located on the Redstone Campus and serves as a social center, recreation and Student Union building for the women of the University. It is a memorial to the late Mabel Louise Southwick of the class of 1905.

The building provides instructional and recreational facilities for the Department of Physical Education for Women. The Recreation Hall is fully equipped and the large stage has theatre lighting circuits and scenery for the productions of the Dramatic Clubs. Above this room is a Social Hall with a stage which is used for lectures, musicals, dances, and other social gatherings. The equipment includes sound motion picture projectors and an auditorium radio-victrola.

There are also reading and reception rooms, a dining room and kitchen for the use of the women students, and committee rooms for various student organizations. A small but attractive hostess apartment is also provided.

The social life of the women of the University is planned to center at Southwick where a Social Director, who is a member of the staff of the Dean of Women, plans and supervises various social programs. Student hostesses are regularly on duty to assist the Social Director and to show visitors about the building. A series of informal teas, the after dinner coffee hour on alternate Sundays, tea dances, indoor games and musicals are all included on the Southwick program, to most of which both men and women students as well as members of the faculty are invited. The dramatic and many other college clubs use the facilities of Southwick for presentations and meetings.

RESIDENTIAL BUILDINGS

PROFESSORS' HOUSES AND APARTMENTS

Through the generosity of the late Hon. John H. Converse and the late Dr. Edward H. Williams, both of Philadelphia, three houses for professors or other suitable tenants were erected in 1891. Two of these houses situated at 25 Colchester Avenue and 475 Main Street are now occupied as professors' residences. The house at 481 Main Street is the headquarters of the Agricultural Extension Service, which also occupies the first floor of 43 South Prospect Street as an annex. The second floor of this annex is assigned to the Psychology Department.

Redstone Lodge on the Redstone Campus is leased as a professor's residence. One-half of a duplex house, 41 South Prospect Street, and the Torrey Homestead at 75 South Prospect Street are occupied as professors' residences.

The University owns two residences on South Prospect Street which have been remodeled into apartments for members of the teaching and administrative staffs. The Benedict Apartments are at 29-33 and the Prospect Apartments at 151-155 South Prospect Street.

MEN'S DORMITORY

By reason of the fact that the University is situated in a city of twenty-five thousand persons, students attending the institution have no difficulty in finding quarters and fare to suit their individual needs.

There are many good boarding houses and restaurants situated near the University. A directory of boarding and rooming places for men is

on file at the office of the Secretary of the Vermont Christian Association which is located in the Old College Building.

CONVERSE HALL (*Erected 1895*)

Converse Hall Dormitory is built on the crest of an elevation east of the College Row. The three sections of the building enclose three sides of a court which opens to the west.

The hall was the gift of the late John Heman Converse and is constructed in the Collegiate-Gothic style, of blue Rutland marble. The three sections contain suites for the accommodation of about eighty men.

Converse Hall is open to all male students who are regularly enrolled in the University. It is particularly recommended to the men of the freshman class. Each study is provided with book case, table and chairs and each sleeping room is supplied with chiffonier, single beds, wire springs, mattresses and pillows, the student himself supplying blankets and linen. Single suites, consisting of a study and a sleeping room, rent for one hundred and fifty dollars for the college year. Suites for two occupants, consisting of a study and two separate bedrooms, rent for one hundred twenty-five dollars for each occupant. These prices include heat, light and janitor service. Students making the dormitory their home are expected to comply with the institutional rules in reference to such buildings.

An advance fee of five dollars, which will be applied on rental charges, is required of all men assigned to dormitory rooms. Suites in Converse Hall are rented for the entire college year. *Students who engage quarters in the dormitory and who enroll in college are liable for the rental charge if they remain in college during the year.* Students may be released only by providing an acceptable substitute. The room rent is pro-rated to students who leave the University during the rental year.

Converse Kitchen, which is located in the south wing of the building, provides a cafeteria dining service for the convenience of the occupants of the dormitory.

WOMEN'S DORMITORIES AND DINING HALLS

All women students enrolled in undergraduate courses are required to procure rooms approved by the University. Applications should be made early to the Dean of Women, as they will be considered in the order of their receipt. Rooms in college dormitories are rented for the entire year. An initial payment of five dollars is required to make an advance reservation. This is applied later on the room rental. Dormitory rooms are not supplied with bed linen (except mattress pads) or blankets, rugs, window

curtains or easy chairs. College houses open on the Monday preceding enrollment and students should not plan to come to the dormitories before that time.

The prices of rooms are uniform in all dormitories. Students living in college owned dormitories board at Grassmount or Robinson Hall. The first meal of the college year is dinner at six o'clock on the Monday preceding enrollment. No meals are served to students who continue in residence in the dormitories during the Thanksgiving recess.

There are opportunities for a limited number of women students to live under a cooperative boarding plan in Sanders Hall and in Allen House.

Those who can not be accommodated in the dormitories will be assigned rooms in private houses, which are subject to the approval of the University. *No final choice of rooms may be made without the approval of the Dean of Women* nor may a woman student enroll in any class without such approval. Therefore any student who has not arranged for her residence in advance should confer with the Dean or Assistant Dean of Women immediately upon arrival.

A woman student may not enroll in any class until her place of residence has been approved by the Dean of Women.

Although every effort is made to find suitable employment for those who feel the necessity of earning part of their room and board, the opportunities for this type of work are very limited and experience has repeatedly proved that it is difficult and in many cases impossible for Freshmen to undertake such employment without lowering their scholastic records and endangering their health by sacrificing regular exercise and recreation. Therefore the University earnestly advises Freshman women not to plan to carry as heavy an employment burden as would be necessary in order to earn enough to defray the major part of their living expenses.

REDSTONE AND ROBINSON HALL (*Acquired 1921*)

Redstone and Robinson Hall, dormitories for women, are located on the Redstone Campus on South Prospect Street. About sixty women are accommodated in single and double rooms. Robinson Hall provides dining facilities for students rooming in these two dormitories and Slade Hall. The Assistant Dean of Women resides in Redstone.

SLADE HALL (*Erected 1929*)

Slade Hall, located on Redstone Campus near Robinson Hall, was the gift of the late Mrs. William Gerry Slade of New York, in memory of her daughter, Harriet Slade Crombie. This dormitory has accommodations for twenty-four young women, each occupying a single room.

GRASSMOUNT (*Acquired 1895*)

Grassmount, the former home of Governor Van Ness, was the first property acquired as a dormitory and dining hall for the women of the University. It is situated at 411 Main Street, near the corner of Summit Street, one block west of the Campus. Grassmount was built at the beginning of the last century and it is a noted example of fine Colonial architecture.

CAMPUS HOUSE (*Acquired 1919*)

This dormitory for women is a remodeled residence at the northwest corner of College and South Prospect Streets. It accommodates eighteen girls. This building is on a part of the site chosen for the Waterman Memorial Building and will not be available as a dormitory after June, 1940.

PROSPECT HALL (*Leased in 1937*)

This residence, located within a block of the University Campus, provides rooms and maintains a dining room for thirteen women. Both single and double rooms are available.

GATES AND WARNER HOUSES

These are conveniently located dormitories, privately owned, but operated under University direction. Gates House provides rooms for nineteen girls and Warner House accommodates eighteen. There is a dining service in each house.

COOPERATIVE HOUSES

The University has two dormitories, each providing opportunities for a cooperative dining service. SANDERS HALL located at 368 College Street was acquired in 1935; ALLEN HOUSE at 461 Main Street in 1936. Under the cooperative plan the expense of board is reduced through the use of low cost menus planned by the college Dietitian and prepared and served by the girls under the supervision of the House Director. Selection of students for these houses is made by the Dean of Women on the basis of character, scholarship, and relative need. Because of the great demand for assignment to these houses application should be made early.

THE INFIRMARY

An Infirmary for women students, isolated from the dormitory, is maintained in Robinson Hall. A resident practical nurse is in constant attendance thus assuring a student such care as she could not have in her own room. The Infirmary is prepared to take care of lighter cases of

illness but has not the equipment necessary for patients requiring hospital treatment or having contagious diseases. For girls living in college dormitories no charge is made. For those living outside a nominal fee of fifty cents a day for room, board, and attendance is charged. Students living in dormitories, if ill, will be moved to the Infirmary at the discretion of the Infirmary Director or of the House Director.

UNIVERSITY GROUNDS

THE CAMPUS

The Campus of the University is a beautiful tract of land containing about seventy-five acres, situated on the crest of a hill on the eastern edge of the city. The Campus itself is bounded by South Prospect Street on the west, by Colchester Avenue on the north and by Main Street on the south. On an elevation to the east are Converse Hall Dormitory for Men, the Mary Fletcher Hospital and the large farm of the College of Agriculture with its numerous buildings. The Back Campus, which serves as a playing field and parade ground, extends from Converse Hall and the Mary Fletcher Hospital toward the west as far as University Place on which is located "University Row." A large skating and hockey rink is located near the Men's Gymnasium. The portion of the Campus between University Place and South Prospect Street is known as "The College Green" and is one of the most beautiful college parks in America. Sherry Fry's statue of General Ira Allen, founder of the University, and J. Q. A. Ward's statue of General Lafayette, who laid the cornerstone of South College in 1825, occupy prominent places on the Green. The former was presented to the University by the late James B. Wilbur, the latter by the late John P. Howard.

REDSTONE CAMPUS

The University owns about one hundred acres of land south of the College Green, which is being developed as a Residence Campus for Women. The property affords excellent views of the Green and Adirondack mountains and Lake Champlain. The Mabel Southwick Memorial Student Union and Recreation Building, a dining hall and three dormitories are now located on this Campus. The recreation field and tennis courts for women are also on this property near Williston Road.

CENTENNIAL FIELD

Centennial Athletic Field was acquired during the one hundredth anniversary year of the University. It has entrances on East and Col-

chester Avenues near the Campus. The eleven acres of level land provide playing fields for football and baseball, and oval and straight-away cinder running tracks. The concrete baseball stands and bleachers seat four thousand. The capacity of the two football stands is seven thousand.

THE UNIVERSITY FARM

The University farm, three hundred acres in extent, adjoins the Campus and is a part of the educational plant. Its horse and cattle barns, poultry houses, and other farm buildings, its registered Percheron horses, Ayrshire, Guernsey, Holstein and Jersey cattle, Duroc Jersey swine, and its field and forest holdings, are used for instructional and experimental purposes in the College of Agriculture.

FEES

THE ACADEMIC COLLEGES

Tuition Fee, in the College of Arts and Sciences, the College of Engineering and the College of Agriculture, payable at the opening of each semester	\$150.00
Student Activity Fee, payable at the opening of the first semester of each year	35.00
Baccalaureate Degree Fee, payable at graduation	10.00
Master's Degree Fee, payable at graduation	25.00
Doctor's Degree Fee, payable at graduation	25.00

LABORATORY, STUDIO AND PRACTICE FEES

Certain courses in art and in the sciences include laboratory exercises which require the consumption of materials. Fees are fixed to cover an average cost. Breakage charges are in addition to the fees scheduled below. The expense of providing practice teaching facilities is only partly covered by the fee for Education 8.

SUBJECTS	1ST HF.	2ND HF.
Agriculture:		
Agronomy 1	\$ 2.50	\$ 2.50
Animal and Dairy Husbandry 8, 13, 14, each	2.50	.....
Animal and Dairy Husbandry 9, 10, 11, 12, 15, each .....	.....	2.50
Poultry Husbandry 1 .....	.....	2.50
Agricultural Education 10	5.00
Agricultural Engineering 1	5.00	5.00
Agricultural Engineering 2	2.50

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SUBJECTS	1ST HF.	2ND HF.
Art 1 (Elementary Education 338)	1.00	1.00
Art (Applied Art 1 and 2) each	1.00	1.00
Art (Free Hand Drawing)	1.00	1.00
Botany 1	2.50	.....
Botany 2, 3, 4, each	2.50	2.50
Botany 5 .....	.....	2.50
Botany 6 (Morphology)	2.50	2.50
Botany 7 (Seed Plants) .....	.....	2.50
Botany 8 (Cytology) either Semester	10.00	10.00
Botany 9 .....	.....	2.50
Botany 10 (Pathology)	2.50	.....
Botany 11, 12, 13, each	5.00	.....
Botany 14 (see Zoology 14)	2.00	2.00
Botany 109	5.00	5.00
Chemistry 1, 21, 22, 23	7.50	7.50
Chemistry 2 (Qualitative)	2.50	.....
Chemistry 3 (Quantitative) .....	.....	5.00
Chemistry 4 (Adv. Quantitative)	5.00	5.00
Chemistry 105 (Physical)	2.50	2.50
Chemistry 10 (Elementary Organic)	5.00	5.00
Chemistry 112 (Advanced Organic)	10.00	10.00
Chemistry 15 (Agricultural) .....	.....	2.50
Chemistry 19 (Home Economics Organic)	2.50	.....
Chemistry 20 (Foods) .....	.....	2.50
Chemistry 24 (Biochemistry)	5.00	.....
Economics 63 (Practice Teaching) .....	.....	10.00
Education 8 (Practice Teaching) .....	.....	10.00
Education 9 (Measurements)	2.00	.....
Education 10 (Measurements) .....	.....	2.00
Elementary Education 332 (Practice Teaching)	2.00	.....
Elementary Education 333 (Practice Teaching) .....	.....	2.00
Elementary Education 337 (Art)	1.00	1.00
Elementary Education 338 (Art)	1.00	1.00
Elementary Education 339 (Student Teaching)	2.00	2.00
Elementary Education 340 (Industrial Arts)	1.00	1.00
Engineering Courses per laboratory hour	2.50	2.50
Genetics	2.00	.....
Geology 1	2.50	2.50
Geology 3	2.50	.....
Geology 4	2.50	2.50
Geology 6	5.00	5.00

SUBJECTS	1ST HF.	2ND HF.
Geology 7	2.50	.....
Geology 8 .....	.....	2.50
Geology 108	5.00	5.00
Home Economics 2	5.00	5.00
Home Economics 3	5.00	.....
Home Economics 5 .....	.....	5.00
Home Economics 7, 10, 20	2.50	.....
Home Economics 8, 9 .....	.....	2.50
Horticulture 1, 2, 4	2.50	.....
Horticulture 5 .....	.....	2.50
Mineralogy 1	3.00	.....
Physics 1, 102, 104, 105, 106, 107, 108	5.00	5.00
Shop Practice, per laboratory hour	2.50	2.50
Zoology 1 .....	.....	4.00
Zoology 2	4.00	4.00
Zoology 3	4.00	.....
Zoology 4 .....	.....	4.00
Zoology 5 (Ecology)	2.50	2.50
Zoology 6 (Comparative Anatomy)	5.00	5.00
Zoology 7 (Embryology) either Semester	4.00	4.00
Zoology 8 (Entomology) .....	.....	2.50
Zoology 13 (Human Physiology) either Semester	2.50	2.50
Zoology 14 (see Botany 14)	2.00	2.00
Zoology 106 (Primate Anatomy)	announced annually	

SPECIAL FEES IN ENGINEERING

ENGINEERING CAMPS—The fee for the Engineering Summer Camps is \$15.00 per session.

INTERMEDIATE ALGEBRA AND SOLID GEOMETRY—The fee for Intermediate Algebra or Solid Geometry or both in the College of Engineering is \$10.00 for the special course. It is required only of students not presenting these subjects for entrance, but may be recommended to others.

FEES FOR APPLIED MUSIC

PIANO, ORGAN, VIOLIN AND SINGING

One lesson a week.....	\$35.00 per semester
Two lessons a week.....	60.00 per semester
Use of practice room and piano one hour a day.....	5.00 per semester
Use of organ one hour a day.....	25.00 per semester
Class lessons in diction for singers, one hour a week.....	15.00 per semester

Private lessons are twenty-five minutes in length. No lessons are given during Mid-year and Final Examinations. The above prices apply to University students only. Students who entered the University prior to January 1, 1939, and who have been continuously enrolled as regular students in Music Education are given training in Applied Music at one-half the above rates. Except for this group, the regular rates for piano, organ, violin and singing will apply to all. The charges for practice apply to all students.

SUMMER SESSION TUITION

Enrollment Fee	\$2.50
Tuition Fee per semester hour	9.00

The tuition of Vermont teachers is paid, for certain courses, by the State Board of Education.

THE COLLEGE OF MEDICINE

Tuition Fee for each year for residents of Vermont.....	\$300.00
Tuition Fee for each year for non-residents of Vermont.....	450.00
Osler Club Fee.....	5.00
Degree Fee, payable at graduation only.....	25.00

Laboratory Fees are included in the tuition. Breakage charges are extra.

BREAKAGE DEPOSIT. Each student in the College of Medicine deposits \$20 at the time of enrollment to cover any breakage charges which may be reported. The amount charged in each year will be collected at the opening of the following year, thereby re-establishing the deposit annually in its original amount. At the end of the fourth year the amount standing to the credit of each Senior will be applied toward the twenty-five dollar fee for the M.D. degree.

Students in the College of Medicine who have failed to complete the work of any year satisfactorily may, by special faculty action, be admitted to the next session to repeat the work of that year, but full tuition payment will be required.

EXPENSES

THE ACADEMIC COLLEGES

The total annual expense for tuition, fees, textbooks and supplies will approximate four hundred dollars. At college dormitory and dining hall rates, board and room will require a similar expenditure. Personal expense varies so much between individuals that it cannot be estimated.

The college charges include tuition, three hundred dollars; student activity fee, thirty-five dollars; payments for books and supplies, which

average twenty-five dollars a year but vary in the different curricula; and fees for materials consumed in laboratory courses in accordance with the established schedule of charges. Tuition is payable in two installments of one hundred fifty dollars each, due at the opening of each semester. Arrangements may be made, when necessary, for installment payments. The activity fee is due in full at the beginning of the first semester. This fee is distributed to several student groups and cannot be refunded. Textbooks, which are sold by the University Stores, are purchased for cash as needed. Laboratory fees are billed in October and in February for the semester current.

Freshman men are required to purchase a uniform for Military Science. This is charged on the bills of the first semester at the contract price which has recently been about twenty-seven dollars. The Government rebate to R. O. T. C. students is approximately eighteen dollars.

The price of double suites in Converse Dormitory for men is sixty-five dollars for the first semester and sixty dollars for the second. In the women's dormitories the charge is the same for double rooms. Single suites and single rooms are twenty-five dollars a year more. A five dollar deposit precedes assignment to a dormitory room, the balance of the yearly rate being billed in two equal amounts in October and February. Information regarding rooms in Converse Hall may be obtained from the Registrar. Room assignments for women must be approved by the Dean of Women.

Board at "Converse Kitchen" is furnished in itemized combinations which are equivalent to table board at six dollars per week. In the dining halls for women at Grassmount and Robinson Hall the price of board is one hundred twenty-six dollars per semester, payable in October and February.

THE COLLEGE OF MEDICINE

The tuition in the College of Medicine is three hundred dollars for residents of Vermont, four hundred fifty dollars for non-residents. The Osler Club Fee of five dollars replaces the Student Activity Fee required in the Academic Colleges. There are no laboratory fees, but a breakage deposit of twenty dollars is made by each student at the time of first enrollment. This deposit is reestablished in its original amount at the beginning of each succeeding year. The balance to the credit of the student at the end of the fourth year is applied toward the fee for the degree which is twenty-five dollars. Textbooks and supplies will cost from fifty to one hundred dollars per year. The other expenses may be estimated from the statements in the preceding section.

PAYMENT OF BILLS

Tuition is payable semi-annually in advance, and no student will be admitted to enrollment at the beginning of a semester until he presents a receipt from the Comptroller showing that bills for the semester have been paid. The Student Activity Fee is payable in advance at the opening of college for the entire year. For convenience room rent, board and laboratory fees, though strictly payable in advance, are collected soon after the opening of each semester for the half-year current.

Students temporarily absent from the University are charged as if present. Bills are payable within thirty days after date, but a special extension may be arranged with the Comptroller when necessary.

REFUNDS

To students withdrawing from the University during a semester, tuition rebates are made in accordance with a definite schedule. Up to the date of the closing of registration in the first semester and during the first week of the second semester the full amount paid is refunded. Thereafter rebates are made at ten per cent less for each succeeding week. The Student Activity Fee will not be refunded in whole or in part.

EMPLOYMENT AND AIDS

The University Employment Bureau is conducted by the Secretary of the Christian Associations with offices in the Old College Building. Each year it gives students many opportunities for employment, most of which, however, are temporary. The permanent positions are generally held by members of the three upper classes. These preferred opportunities are passed from one student to another and are seldom at the disposal of the Employment Bureau. Since Freshmen are at employment disadvantage all should be provided with resources sufficient to cover the essential expenses of the first year. Guaranties of employment in definite amount should not be expected.

The Dean of Women is in charge of the employment of all women students. Accordingly, such applications should be filed in that office.

Student employment under the Federal National Youth Administration has been provided during the years that these funds have been available. The average amount earned by each student assigned to a project is about ten dollars per month. Applications should be made to the National Youth Administration Director at the University.

LOAN FUNDS

Loan funds are apportioned annually to needy and deserving students who have been enrolled for at least one year in some college of this University. They insure continuity of training and present an opportunity to pay a part of the cost of college attendance at some future time. The notes are usually repaid during the productive years immediately following graduation.

LOAN FUND REGULATIONS

1. Loans are not usually granted to students below Sophomore classification.
2. Applications for loans must be made annually on the blank forms provided by the University.
3. Applications must refer to three persons of good standing who live at the home of the applicant and to whom the applicant is personally known, the preference being—one clergyman; one teacher, physician, or attorney; and one banker.
4. Loans are always conditional upon the applicant's established record of good scholarship and character.
5. Loans will be made to applicants for use only in the payment of *tuition, books, board and room rent*.
6. A voucher or receipt form supporting the items for which loans can be obtained must be filed with the Comptroller before any loan will become available.
7. Every application for a loan must be approved by the Dean of the college in which the applicant is a student.
8. An insurance policy, assigned to the University "as its interest may appear," is required to protect the Funds from losses that might arise in case the borrower should die before the payment of the loan.
9. Interest is charged at the rate of four per cent while the student is in the University and for one year after graduation and thereafter at the rate of six per cent.
10. The Comptroller may modify these rules in emergency.

ESTABLISHED LOAN FUNDS

THE JEDEVINE FUND was established by the late Allen E. Jeudevine as a memorial to his son, Cornelius A. Jeudevine, who died before his plan of entering college could be realized. The specific purpose of this fund is to aid poor and deserving young men in Vermont in obtaining the advantages of a liberal education. The fund now amounts to more than twenty-five thousand dollars.

THE LANDON FUND was established by the late Susan W. Landon in memory of her brother, the late Sealand W. Landon, a member of the Class of 1874, who was for many years a well-known school principal. This fund, amounting to ten thousand dollars, is loaned for the benefit of deserving men and women and is subject to such regulations as may be established by the executive committee of the Board of Trustees.

THE MARY A. SHAW AND FANNY E. SHAW LOAN FUND was established by Mrs. Willard Pope, daughter of Mary A. Shaw, for the benefit of women students of the University and is subject to the usual conditions. The fund amounts to three thousand five hundred dollars.

THE CONSOLIDATED LOAN FUND is made up of the Class of 1924 Fund, the Class of 1925 Fund, the Emergency Loan Fund, the Julia I. Bates Fund, the Student Loan Fund, the B. F. Taylor Fund, the New York Alumni Fund of November 1927, the Edmund Seymour Fund, the Kidder Loan Fund and the Lydia M. Blood Loan Fund. These consolidated funds amount to more than twenty thousand dollars.

THE STEVENS LOAN FUND, given in memory of the late Horace E. Stevens of the Class of 1870, is available only to students in the College of Engineering. The fund amounts to two thousand dollars.

THE MARY GRAVES FUND amounting to seven thousand two hundred dollars is available as a loan fund for women. It is the gift of the late Annette Fiske Mereness, in memory of her mother.

THE ASA FISKE LOAN FUND was established by the late Annette Fiske Mereness in memory of her father. It amounts to seven thousand two hundred dollars and is available to young women.

THE ANNETTE FISKE MERENESS LOAN FUND is for the benefit of women students subject to the regular University regulations. The fund amounts to more than twelve thousand seven hundred dollars.

THE CARBEE LOAN FUND of four thousand dollars was established by the late Mrs. May D. Carbee of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873. This fund is for the benefit of deserving students of the College of Medicine subject to the usual rules governing loan funds.

THE MEDICAL COLLEGE LOAN FUND, amounting to thirty-two hundred and eighty dollars, is available for loans to students enrolled in the College of Medicine.

THE EMILY AND THOMAS TELFER LOAN FUND, established by Mrs. Thomas Telfer of Berkeley, California, is administered in accordance with the usual regulations. The fund amounts to twenty thousand dollars.

THE CLASS OF 1923 LOAN FUND, amounting to four hundred dollars, is available under the usual regulations to students of the Academic Colleges.

THE CHARLES D. AND CARRIE D. ORDWAY LOAN FUND was received at the death of the donor, Charles D. Ordway in 1933, invested in real and personal property which has since been in process of sale. The fund may amount to more than twenty-six thousand dollars. It is not at present available for loan to students.

THE MARY MAUD PATRICK LOAN FUND, amounting to two hundred eighty-five dollars, was established by Epsilon Sigma as a memorial to the late Mary Maud Patrick for the benefit of students in curricula in elementary education.

THE CLASS OF 1929 LOAN FUND was established in 1936 and is loaned to students of the academic colleges under the usual regulations. The fund amounts to more than five hundred dollars.

THE WOMEN'S STUDENT HEALTH COUNCIL LOAN FUND, amounting to more than four hundred dollars, is loaned to women, designated by the Dean of Women and the Director of the Department of Physical Education for Women, under special regulations as to interest and repayment.

THE LADIES OF THE FACULTY LOAN FUND, now loaned approximately to its full amount of seven hundred fifty dollars, is available, as outstanding loans are paid, to deserving and needy girls attending the University. The awards are made by a committee of the Ladies of the Faculty. Not more than fifty dollars will be loaned to any one girl.

THE JOSEPH LAWRENCE HILLS LOAN FUND is in process of establishment by the friends of Dean Hills, who completed fifty years of service to the University in 1937. The fund now amounts to more than seventeen hundred dollars.

THE CHARLES H. BAYLEY LOAN FUND, amounting to ten thousand dollars, was established in 1937 and increased in 1939 by gifts of Laura Morse Bayley in memory of her husband.

THE HENRY BIGELOW SHAW LOAN FUND, amounting to three thousand dollars, was established in 1938 by Mrs. Fanny Shaw Pope in memory of the late Henry Bigelow Shaw of the class of 1896. The fund may be loaned, under certain restrictions, to young men who have been graduated from the University and who wish to study at Harvard University Law School.

THE JOHN H. AND MARY A. BLODGETT LOAN FUND, amounting to nearly thirty-four thousand dollars, was established in 1938 by bequest of Mary A. Blodgett late of Rockingham, Vermont. It may be loaned to worthy Vermont boys and girls who are enrolled in any curriculum offered by

the University. Preference is to be given to graduates of the Kurn Hattin and Warner Memorial Homes of Westminster and Saxtons River and to students who are residents of the town of Rockingham. The interest charge is to be four per cent during college residence and for one year after leaving and five per cent thereafter until the loan is repaid, subject, however, to modification in particular instances at the discretion of the Loan Fund Committee. Except as indicated above the usual regulations regarding administration of loan funds apply.

THE AMERICAN AGRICULTURIST RESEARCH FOUNDATION LOAN FUND, amounting to three hundred dollars, is available to students enrolled in the College of Agriculture. The awards are made on recommendation of the Dean of that College.

THE BARNES FUND, established by bequest of the late Reverend Stephen G. Barnes, provides limited assistance to needy students who wish to attend inspirational religious conferences. The income of the one thousand dollar endowment is available as a loan or gift.

SCHOLARSHIPS

Endowed scholarships of the University, unless otherwise stated, are awarded annually by a special committee. *Applications for each college year should be filed with this committee on or before June 1. Any application received by the chairman of the committee subsequent to July 1 must be refused, regardless of its merits, as the scholarships are all appointed early in July.* As scholarship appointments are for one year only, renewal applications for the ensuing college year must be filed before this date. In no event will a scholarship be available to an individual student for more than four years.

Endowed scholarships are rarely awarded to students who have not been previously enrolled at the University and they are never granted to students who are under warning for low college record or who are on probation for any reason.

If a student who has had the benefit of a scholarship shall be excluded or shall abandon his college studies before graduation, or shall leave the University to enter some other institution, he shall thereby become chargeable with the amount of tuition exemption represented by the scholarships used.

One-half of the scholarship is credited to the recipient at the beginning of each semester.

The endowment of additional scholarships would enable the University to extend its benefits to those who cannot otherwise afford the expense of a college course.

REGULAR ENDOWED SCHOLARSHIPS

Scholarships affording aid to students of limited means to the amount of fifty dollars have been endowed as follows:

THE LIZZIE P. ALLEN SCHOLARSHIPS, four in number, founded in 1900 by Lizzie P. Allen, a descendant of Ira Allen, founder of the University.

THE BARNARD SCHOLARSHIPS, six in number, founded in 1903 by the bequest of Rev. Lucius E. Barnard of the Class of 1853.

THE ELIZABETH F. BRIGHAM SCHOLARSHIPS, four in number, founded in 1910, available first for students from Brigham Academy.

THE DR. FRED CARPENTER SCHOLARSHIP. Preference is given to sons of clergymen and physicians.

THE CLASS OF 1861 SCHOLARSHIP, endowed and made available in 1891.

THE CLASS OF 1881 SCHOLARSHIP, endowed in 1937 by William H. Rice, a member of that class.

THE JOHN H. CONVERSE SCHOLARSHIP, founded in 1882, by John H. Converse, '61, of Philadelphia.

THE LIZZIE S. CONVERSE SCHOLARSHIP, founded by bequest of Sarah Elizabeth Converse, of Burlington, for poor and deserving students in the Classical Department.

THE CRAFTSBURY SCHOLARSHIP, founded in 1900, for the benefit of relatives of Mr. and Mrs. Nathan S. Hill, or residents of Craftsbury or Isle La Motte.

THE FRANCIS WHELPLEY HICKOK SCHOLARSHIPS, three in number, founded in 1902, by Mrs. Julia F. Hickok, wife of James W. Hickok of the Class of 1837, in memory of a son, a member of the Class of 1871.

THE LOUISA H. HOWARD SCHOLARSHIPS, five in number, founded in 1882, by Miss Louisa H. Howard, of Burlington.

THE CHARLES HOYT SCHOLARSHIPS, two in number, founded in 1904.

THE ISLE LA MOTTE SCHOLARSHIP, founded in 1884, by Nathan S. Hill, of Burlington, for the benefit of students from Isle La Motte and, failing such, from Craftsbury.

THE SARAH B. JACOBS SCHOLARSHIPS, seven in number, founded in 1882, by Mrs. Sarah B. Jacobs, of Boston, for the benefit of graduates of Brigham Academy only.

THE EDITH BLANCHE KIDDER SCHOLARSHIPS, five in number, were established by the late Joseph W. Kidder, and became available in 1936. These scholarships are for students in the College of Medicine, preference being shown to legal residents of Barre, Vt.

THE ROBERT J. KIMBALL SCHOLARSHIP, founded in 1900, by Hon. Robert J. Kimball, of Randolph, for the benefit of the students from Randolph. The Trustees of Randolph High School may make nominations for this scholarship.

THE CELINDA A. B. LILLEY SCHOLARSHIPS, ten in number, founded in 1880, for the benefit of women students.

THE CHARLES MUNSON MARSH SCHOLARSHIP, founded in 1893, for the benefit of students from Woodstock.

THE CHARLES P. MARSH SCHOLARSHIPS, five in number, founded in 1893 for the benefit of worthy young men and women from Windsor county.

THE EDWIN WRIGHT MARSH SCHOLARSHIP, founded in 1883, by Charles P. Marsh, of the Class of 1839, of Woodstock, in memory of his son of the Class of 1872, for the benefit, in the first instance, of students from the town of Weathersfield or from Windsor county.

THE MORETOWN AND MIDDLESEX SCHOLARSHIPS, two in number, founded by the Rev. E. C. Bass, '59.

THE JUSTIN S. MORRILL SCHOLARSHIP, founded in 1900, by Senator Justin S. Morrill, of Strafford, for the benefit of students from Strafford.

THE JOHN ORDRENAUX SCHOLARSHIPS, nine in number, founded in 1909, for the benefit of students in the Colleges of Medicine, Arts, Engineering and Agriculture.

THE PARKER SCHOLARSHIP, founded in 1880, by Rev. Charles C. Parker, D.D., of the Class of 1841, in memory of himself and his son, Charles Edmund Parker, '67.

THE MINNIE A. PICKERING SCHOLARSHIPS, six in number, became available in 1938.

THE CHARLES W. RICH SCHOLARSHIP, founded in 1883, by Charles W. Rich, Esq., of the Class of 1836, of St. Albans, for the benefit of students in the College of Arts and Sciences.

THE SAMUEL SIDNEY SMITH SCHOLARSHIP, founded in 1896, by bequest of Mrs. Elisa Smith, of Burlington, in memory of her husband.

THE SOPHIA STOW SCHOLARSHIPS, two in number, endowed in 1937 by bequest of George L. Stow, '73, in memory of his mother, are available to students enrolled in the Classical Curriculum.

THE DANIEL WASHBURN SCHOLARSHIPS, nine in number, founded by Daniel Washburn, M.D., of Stowe, for the benefit of young men studying for the Christian ministry, or, in default of such applicants, of other deserving young men.

THE WESTFORD SCHOLARSHIP, founded in 1882, by Hon. Luke P. Poland, LL.D., of St. Johnsbury. This scholarship is available first to students from the town of Westford.

THE JOHN A. S. WHITE SCHOLARSHIP FUND, now yielding three scholarships, was established by a bequest from John A. S. White, of Northfield, for the benefit of needy students from Washington county or from the State of Vermont.

SPECIAL SCHOLARSHIPS

THE FRANKLIN BALDWIN SCHOLARSHIP FUND of more than five hundred dollars, established in 1915, yields an annual income of twenty-five dollars. This scholarship is available to students from Putney. The award is made on the basis of character and scholastic record.

THE REUBEN CLARK BENTON SCHOLARSHIPS, two in number, paying annually one hundred dollars each, established under the will of Reuben Clark Benton, of Minneapolis, Minnesota, a native of Waterford, Vermont, and a boyhood resident of Lunenburg, Vermont, for the benefit of students from Waterford, Lunenburg, or Minneapolis.

THE ADA S. BLAIR FUND of two thousand five hundred dollars, received in 1926 is held in trust for scholarships. The income is one hundred and twenty-five dollars per year.

THE MARCIA P. BROWN SCHOLARSHIP FUND amounts to eighteen thousand, nine hundred dollars, the income of which is "to be used and expended for the education of a young woman, who, so far as can be judged, promises to become a woman whose life will be of more than usual benefit to humanity and a credit to the University." If the young woman chosen does not need the entire income of the fund, the remainder may be used for another young woman "who needs and merits it." It is stated in the terms of the gift that "this income is not to be given as a charity or a premium for poverty, but as an honor for ability and strength and elevation of character." The selection of the beneficiary or beneficiaries of this fund is left to a committee of awards consisting of the President of the University, the Dean of Women and one trustee to be elected by the Board of Trustees.

THE EZRA HOYT BYINGTON SCHOLARSHIP, eighty dollars annually, founded in 1905, for the benefit of students from Hinesburg or students bearing the name of Byington, Boynton, Hoyt, or Wortman, or in some way related to these families.

THE SARAH L. BURRITT SCHOLARSHIP, the income from a fund of two thousand five hundred dollars is used toward paying the tuition of a deserving young woman student. The income is one hundred and twenty-five dollars.

THE EMEROY N. BURRITT SCHOLARSHIP, the income from a fund of two thousand five hundred dollars is used toward paying the tuition of a deserving young woman student. The income is one hundred and twenty-five dollars.

THE MOSES D. CARBEE SCHOLARSHIP, amounting to one hundred fifty dollars annually is awarded to a deserving student in the College of Medicine. This scholarship was established by a bequest of three thousand dollars from the late Mrs. May D. Carbee, of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873.

THE PHILIP HENRY CREER SCHOLARSHIP, three hundred dollars annually, founded by Ex-Gov. Redfield Proctor, for the benefit of students from Proctor. This scholarship is awarded by the donor.

THE CHARLES H. HOOD SCHOLARSHIPS are provided from a private trust fund established for the purpose by the late Dr. Charles H. Hood of Boston. Each scholarship has a value of two hundred dollars. The number available each year is announced by the Dean of the College of Agriculture, who awards them to students who are candidates for a degree in agriculture in accordance with definite restrictions suggested by the donor. High scholastic standing is essential.

THE LYNDON INSTITUTE SCHOLARSHIP, yielding three hundred dollars per year, endowed by George E. P. Smith of the Class of 1897, is awarded annually to a graduate of Lyndon Institute of high character and promise. The selection is made by the faculty of Lyndon Institute and is renewed annually through the Senior year if good progress is made by the recipient.

THE WILLIAM G. SHAW SCHOLARSHIP, amounting to three hundred dollars annually, was originally founded in 1892 by bequest of one thousand dollars by the late Hon. William G. Shaw, of Burlington, of the Class of 1849. The fund has since been increased to six thousand dollars by Mr. Shaw's daughter, Mrs. Willard Pope, who awards the scholarship.

THE SOLDIERS' SCHOLARSHIP FUND was founded by a group of Civil War veterans for the benefit of students in any college of the University who are descendants of soldiers in the Civil War. This scholarship amounts to one hundred dollars annually.

THE JOHN AND MARY WATERMAN SCHOLARSHIP of two hundred dollars annually, endowed in 1923 by the late Charles W. Waterman, of the Class of 1885 in memory of his father and mother, is available under special restrictions to residents of Waitsfield, Vermont, or Denver, Colorado. The scholarship is awarded by the President of the University.

THE HATTIE LAURA WETHERBY WESTON SCHOLARSHIP FUNDS consist of a five thousand dollar scholarship endowment for men and an equal one

for women. They became available in 1936 by bequest of the late Mrs. Hattie Laura Wetherby Weston. The sum of two hundred and fifty dollars is awarded to one or more deserving men; an equal amount, under similar conditions, to women.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP is awarded to a student from New York or vicinity. The amount of this scholarship is five hundred dollars a year. Three hundred dollars of this sum is given for tuition and the balance is loaned, and bears a low rate of interest after the recipient has left College. This scholarship is awarded by a committee of the New York Alumni Association.

STATE SCHOLARSHIPS

STATE SENATORIAL SCHOLARSHIPS having a value of one hundred and twenty dollars each have been established by the General Assembly. There are ninety scholarships appointed annually, each Senator having three appointments in each of the two years of his term. The appointees must be residents of Vermont and usually are selected from the county which the Senator represents. Appointments are made by the Senators to whom application should be made.

One of the three annual appointments must be made to a student pursuing a course leading to the degree of Bachelor of Science in Agriculture. The other two may be used in any curriculum except medicine.

STATE MEDICAL SCHOLARSHIPS have been established by the General Assembly for the benefit of students of the College of Medicine who need financial assistance, and who have resided in Vermont for two consecutive years preceding enrollment. There are fifty scholarships of one hundred dollars each awarded each year. Students receiving the benefit of these scholarships must agree to practice in the State of Vermont one year for each year the scholarship is held or to refund the amount received.

STATE ELEMENTARY EDUCATION SCHOLARSHIPS are provided in limited number by the State Board of Education. Elementary education students who have been residents of Vermont for two consecutive years preceding enrollment, who have signed an agreement to teach in the public schools of Vermont for one year in return for each scholarship grant and who are in urgent need of aid in order to continue their studies are eligible to apply. A high scholastic record is expected and the scholarship will not be credited in the second semester if the first half record is not satisfactory. Each appointment is for one year only. In 1938-1939 eleven scholarships of one hundred dollars each were awarded.

EARNED SCHOLARSHIPS

HONOR SCHOLARSHIPS

Honor Scholarships to the amount of two hundred dollars each are awarded annually by the Board of Trustees to the young man and young woman graduating with the highest standing from a college preparatory course in each of the Vermont high schools accredited by the State Board of Education. These scholarships are for one year only. As the awards are made to the young man and woman having the *highest* standing in the graduating class of each approved high school, they are personal and individual and therefore not transferable.

INTERSCHOLASTIC DEBATING SCHOLARSHIPS

The final contest of the Interscholastic Debating League is held at the University. The eight individual debaters judged the best will each be awarded scholarships. The amounts of the awards are: First, \$300; second, \$300; third, \$275; fourth, \$250; fifth, \$200; sixth, \$175; seventh, \$150; eighth, \$150.

HIGH SCHOOL EDITORIAL SCHOLARSHIPS

The University offers six scholarships to members of the editorial boards of Vermont high school publications. For the purpose of judging, the schools are divided into three classes, according to size. In class one, comprising the large high schools and private schools, there are two scholarships of one hundred and seventy-five dollars each to be awarded to the best literary publication and the best news publication. In class two, the medium sized schools, there is a scholarship of one hundred and fifty dollars to be awarded to the best publication, whether literary or news. In class three, covering the small high schools, is a similar scholarship of one hundred and twenty-five dollars. There is also a special scholarship of one hundred dollars for the publication, irrespective of class, which shows the most improvement over the previous year, and another of one hundred dollars for the publication which maintains some department or feature of distinctive merit. The scholarship in each class goes to the editor-in-chief of the winning publication. In case the editor is not an applicant for admission the appointment may be made to the business manager or to some other senior member of the staff.

PRIZE SPEAKING CONTEST SCHOLARSHIPS

For the awards in the Vermont State Interscholastic Prize Speaking contest the University provides twelve scholarships. Six, amounting to one hundred and fifty dollars each, are awarded to the winners in the oratorical, the dramatic and the humorous divisions of both the preliminary and the final contest. The six corresponding second prizes are one hundred dollars each. Special third prizes of seventy-five dollars each may be awarded.

VOCAL MUSIC CONTEST SCHOLARSHIPS

The University has provided eighteen scholarships having a combined value of two thousand one hundred and fifty dollars which are given annually to students of the secondary schools of Vermont who win awards in district and final vocal music contests. These contests are held in three districts under the auspices of the Department of Music and the supervision of the Vermont Headmasters' Club. The first prize for boys, and the first prize for girls in each district is a one hundred and fifty dollar scholarship. The district second prizes are one hundred dollars each.

The winners of the district contests participate in a final competition at the University for three scholarships for men and three for women. The value of these awards for the final contest is one hundred and fifty dollars, one hundred dollars and seventy-five dollars.

In addition, winners in the finals, during their freshman year at the University, may take without charge two lessons a week of vocal instruction in the Department of Music, unless they are pursuing the Music Education Curriculum. Students taking the latter curriculum may apply any scholarship credit to fees for vocal music.

Contestants are judged especially on tone, accuracy of pitch, rhythm and interpretation. Stage deportment and diction are also considered. The conditions of these contests are controlled by the Music Department of the University.

LITERARY SCHOLARSHIPS

Ten scholarships are provided by the University for the encouragement of literary work in the schools of the State. Three scholarships of one hundred and fifty dollars each are offered for the best short stories, essays and poems in annual competition, three scholarships of one hundred dollars each for the second best in each class, and three scholarships of seventy-five dollars each for the third best in each class. There also is one scholarship, valued at one hundred dollars, for the best one-act play. The competition closes May 1.

THE CLASSICAL SCHOLARSHIPS

Two groups of scholarships are offered each year by the University, one to residents of Vermont and the other to non-residents.

Six scholarships of one hundred fifty dollars each are offered to sophomores who are residents of Vermont and are enrolled or wish to enroll in the Classical Curriculum. These scholarships will be renewed for the junior and senior years in the case of students who maintain the required standard of scholarship and continue the study of Greek and Latin.

Five scholarships of two hundred dollars each are offered to freshmen, not residents of Vermont, who have completed four years of preparatory Latin with honor grades. Those appointed will be expected to enroll in the Classical Curriculum. These scholarships will be renewed for the three following years on the same conditions as those described in the preceding paragraph.

The scholarships in both groups are awarded by the Department of Classical Languages and Literatures in consultation with the President. Inquiries about them should be addressed to Professor L. M. Prindle, 380 Maple Street, Burlington, Vt.

VERMONT NATIONAL GUARD SCHOLARSHIPS

Two full scholarships of three hundred dollars each are offered each year by the University of Vermont to freshman students to be selected by the President of the University from members of the Vermont National Guard. Applicants must have fulfilled the entrance requirements of the University and must be in need of financial assistance in order to attend college. Appointments are made only from those recommended by the Adjutant General of the Vermont National Guard as outstanding in military character and ability, and possessing capacity for leadership.

The Adjutant General may annually prior to August 20 of any year recommend as many candidates as he desires, transmitting the supporting papers to the University of Vermont. The President of the University will award the two scholarships which are granted for the freshman year only.

RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

(See pages 82-83.)

PRIZES

THE BENEDICT ESSAY PRIZE was established by the late Robert Dewey Benedict of the Class of 1848, who gave three hundred dollars, the income of which is offered as a prize yearly to the member of the Senior class presenting the best essay on the subject of "International Arbitration." The prize is fifteen dollars and is awarded following examination.

THE BENNETT ESSAY PRIZE was endowed by the late Philo Sherman Bennett of New Haven, Connecticut. The fund of four hundred dollars yields an annual prize of twenty dollars which is awarded at Commencement for the best essay "discussing the principles of free government."

THE BRADLEE PRIZE FOR SCHOLARSHIP AND CHARACTER, given in memory of the late Thomas Bradlee, Director of the Agricultural Extension

Service of the University of Vermont and State Agricultural College from 1913 to 1931, may be awarded annually by vote of the Faculty of the College of Agriculture to that student of either sex in such College, in the Senior or Junior class who has maintained scholarship rank of conspicuous merit, and who has, at the same time manifested high traits of character. The prize amounts to fifty dollars.

THE BUTLER DEBATING PRIZES were endowed by the late Edward Page Butler of the Class of 1870, who left the sum of one thousand two hundred dollars, the income to be used for the promotion of extemporaneous debate. From the income of this fund three prizes of twenty-five dollars, fifteen dollars and ten dollars have been established. These prizes may be awarded annually on recommendation of the head of the English Department to the three women students of the University who have shown the greatest ability in debate. The balance of the income, together with the amounts of any prizes that may not be awarded, will be expended in furthering debating.

THE CARBEE MEDICAL PRIZE of three thousand dollars was established by the late Mrs. May D. Carbee, of Haverhill, N. H., in memory of her husband, Moses Dyer Carbee, M.D., of the Class of 1873. The income of one hundred and fifty dollars from the fund is given annually at Commencement to the student in the College of Medicine who shows the greatest proficiency in the subject of obstetrics.

THE CONVERSE PRIZES IN COMMERCE AND ECONOMICS were established by the late John Heman Converse of the Class of 1861, by gift of a fund of one thousand dollars, the income from which may be used in whole or in part for one, two or three prizes of twenty-five dollars, fifteen dollars and ten dollars, respectively. Any amount not awarded will be used for books and magazines for the Department of Commerce and Economics. The prizes are awarded on recommendation of the head of the department following presentation of a thesis of merit on some approved subject in the field of commerce and economics.

THE EMERSON PRIZE IN HISTORY, of one hundred dollars is offered annually at Commencement to perpetuate the scholastic memory of Samuel Franklin Emerson, who retired as Emeritus Professor of History in 1923 after forty-two years of service to the University. The prize is awarded to an undergraduate for the best original essay on any topic chosen from any field of history. Essays are not limited as to length but must be typewritten, double space, on white paper 8½ by 11 inches in size. Each essay is to be signed by a fictitious name, the identification of which must be given in an accompanying sealed envelope bearing on the outside

the fictitious name which was used. All essays considered in the competition must reach the Department of History by April 15. The department will submit the best essays for a selection for award, to an outside judge, who may withhold the prize if no essay submitted reaches a sufficiently high standard.

THE HOWARD PRIZES were provided by the late Mrs. Hannah T. Howard, of Burlington, who left by will one thousand two hundred fifty dollars, the income of which is awarded in prizes, to students in the College of Arts and Sciences for excellence in the work of the freshman year.

THE ELWIN LEROY INGALLS PRIZE of fifty dollars is provided from a private fund established in 1934 to honor Elwin Leroy Ingalls, of the Class of 1896, who had then completed twenty years of continuous service as State 4-H Club Leader. It is awarded annually during the second semester by the 4-H Club Department of the Vermont Extension Service to a University student of outstanding merit as shown in character, 4-H Club record and scholastic attainment in college.

THE KENT PRIZE IN ELECTRICAL ENGINEERING was established by A. Atwater Kent, of Philadelphia. The fund of five thousand dollars provides an income of two hundred and fifty dollars which is awarded as a prize by the faculty of the College of Engineering, under the following conditions:

"The income of the fund is to be awarded as a prize each year at Commencement to that member of the Senior class in Electrical Engineering who, during his Junior and Senior years, in the opinion of the Faculty teaching Electrical Engineering, has shown the greatest progress in judgment and general grasp of the broad principles of Electrical Engineering and in development of personality and who shows the greatest promise of success in this Field."

The names of the winners of this prize are placed on a tablet given by Mr. Kent and displayed on the wall on the first floor of Williams Science Hall.

THE KINGSLEY PRIZES IN ELOCUTION are provided annually to Freshmen and Sophomore men for the best declamations of passages of oratorical prose. There are three prizes, the first being twenty-five dollars, the second, fifteen dollars and the third, ten dollars. These prizes were given for many years by the late Darwin P. Kingsley of the Class of 1881, and have recently been continued by Mrs. Kingsley.

THE LAWRENCE DEBATING PRIZES were established by Edwin Winship Lawrence, of the Class of 1901. The first group of prizes is established in memory of the donor's brother, Robert Ashton Lawrence, '99, and is

offered annually to students who, in the judgment of the English department of the University, exhibit the greatest proficiency in debate. The one thousand dollar fund provides three annual prizes; a first, of twenty-five dollars; a second, of fifteen dollars; and a third, of ten dollars.

The second group of prizes, established in memory of the donor's brother, Robert Ashton Lawrence, '99, and his father, George Edwin Lawrence (Middlebury College '67), will be awarded to the three students participating in a joint debate between representatives of the University of Vermont and Middlebury College, who in the opinion of the judges chosen show the greatest proficiency in this debate. The annual prizes are a first, of twenty-five dollars; a second, of fifteen dollars; and a third, of ten dollars. These prizes are derived from an endowment of one thousand dollars.

If debating ceases at the University, the income from these funds may be used to assist worthy students.

THE PHELPS PRIZE IN CIVIL ENGINEERING is fifty dollars, derived from a fund of more than nine hundred dollars. It was endowed in memory of the late Edward Haight Phelps of the Class of 1872, by his father, the late Edward J. Phelps. The prize may be awarded by the faculty of the College of Engineering each year at Commencement to a graduate of that year in Civil Engineering who shall have exhibited conspicuous merit in professional studies, and high and noble traits of personal character. A special certificate will accompany the prize, indicating the conditions upon which it has been awarded. In the event that no award shall be made in any year, the same amount of money will be expended in the purchase of books on the subject of Civil Engineering for the use of the College of Engineering.

THE SEYMOUR HORTICULTURAL FUND, amounting to twenty-five hundred dollars, was given by William W. Seymour in memory of his father, Henry E. Seymour of the Class of 1835. The income from four-fifths of the fund is used for the Library of the Horticultural Department. The remainder of the fund provides twenty-five dollars annually as a prize to that member of the Senior class who has done the best work in original horticultural research.

THE KIRBY FLOWER SMITH LATIN PRIZE is derived from a three thousand dollar fund established as a memorial to Kirby Flower Smith of the Class of 1884 and given by his wife. An award of one hundred and fifty dollars is made annually to the student having the highest standing in College Latin 2.

THE RUSSELL O. SUNDERLAND MEMORIAL TROPHY is awarded annually at Founder's Day to that man of the Senior class who throughout his col-

lege course has best exemplified those qualities of character, leadership and persistence in overcoming obstacles, which were outstanding traits in the life of the late Russell O. Sunderland of the class of 1938. This is a permanent trophy upon which the name of the recipient is engraved annually. The Boulder Society gives a suitable personal trophy to each student who receives the Sunderland Award.

THE GEORGE H. WALKER DAIRY PRIZE is derived from a permanent fund of two thousand dollars, donated by the late George H. Walker, Boston, Massachusetts, one of the founders of the Walker-Gordon Milk Company. It is awarded annually by faculty vote to a member of the graduating class of the College of Agriculture who has pursued a course either in Dairy Production or Dairy Manufactures, and who has shown conspicuous ability in the studies pertaining to Dairy Husbandry, and especially in milk production and marketing, and who furthermore exhibits high and noble traits of character.

In the event that no award is made by the faculty in any given year this income is spent for apparatus to be used for instructional purposes in market milk making or distribution, or for books dealing with Animal or Dairy Husbandry. The apparatus or books are marked as being derived from the George H. Walker Prize Fund.

THE WASSON ATHLETIC PRIZE is derived from an endowment of two hundred and fifty dollars, given by the late Mrs. Pearl Randall Wasson in memory of her husband, the late Dr. Watson L. Wasson, '01. The income of the fund is used for the purpose of giving a prize "to the member of the Senior class who has maintained the highest standard of academic scholarship and athletic attainment," as determined annually by the University Council.

THE ATHLETIC COUNCIL MANAGERIAL PRIZE of twenty-five dollars is awarded annually at Commencement to the senior sports manager who, in the judgment of the Athletic Council, has shown the greatest proficiency in performing the work of his office.

THE WOODBURY MEDICAL PRIZES are derived from a fund of one thousand dollars created by the late Mrs. Pauline S. Woodbury in memory of her husband, the late Dr. Urban A. Woodbury of the Class of 1859. The first prize of twenty-five dollars is awarded annually to the student who, upon graduation, has shown the greatest proficiency in the clinical subjects in his Senior year. The second prize of twenty-five dollars is awarded to that member of the Sophomore class, who has received the highest standing of the class in all subjects of the Freshman and Sophomore years.

THE MABEL NELSON JACOBS SCHOLARSHIP CUP is annually awarded to the custody of that sorority, the members of which have won the highest

scholastic standing for the preceding year. The cup was provided by the late Mrs. H. J. Nelson in memory of her daughter, Mrs. Mabel Nelson Jacobs, of the Class of 1899.

THE KIDDER MEDAL is provided by the income of a fund of four hundred dollars, established in memory of the late Dr. F. T. Kidder, of Woodstock, an alumnus and trustee of the University. The specially engraved gold medal is awarded at Commencement to the male student ranking first in character, leadership and scholarship. The selection is made by a committee representing all the faculties.

MILITARY DEPARTMENT PRIZES

THE LOYAL LEGION SABER, a regulation commissioned officers' saber, suitably inscribed, has been presented annually since 1931 by the Vermont Commandery of the Military Order of the Loyal Legion to that student of the graduating class who attains the highest standing in the Reserve Officers' Training Corps.

THE SONS OF THE AMERICAN REVOLUTION MEDALS have been presented annually since 1933 by the Vermont Society, Sons of the American Revolution, one to the member of each class in the Reserve Officers' Training Corps who is outstanding in character, conduct, leadership, and in theoretical and practical knowledge of the year's course. These medals are of nation-wide standard pattern. The stated purpose of the award is to keep before the minds of the young men of today, in order that they may be encouraged to exemplify them in practice, those qualities and characteristics upon which our nation was founded and has been perpetuated.

THE CHAMPLAIN SABERS CUPS are awarded at the annual Federal Inspection for excellence in the manual of arms, one to a sophomore and one to a freshman. These cups are presented by the Honorary Military Society, Champlain Sabers, the members of which conduct the competition and decide upon the awards.

THE APPLETON-CENTURY PRIZE is awarded to the member of the sophomore class taking military training who makes the highest grade in the subject of tactics. The D. Appleton-Century Company, publishers, of New York City, offer annually a copy of "The Profession of Arms," by Capt. Elbridge Colby, United States Army, autographed by the author.

THE RESERVE OFFICERS' CUP, presented by the Reserve Officers' Association of the United States, is awarded following a competitive drill to the best trained squad representing a local fraternity group. Students in ranks must be freshmen or sophomores, drilled by an additional squad

leader who may belong to any college class. All must be members of the Reserve Officers' Training Corps. The cup becomes the permanent property of the fraternity winning it three times. The initial cup, originally offered in 1929, was permanently won in 1931 by the Delta Psi Fraternity. A second cup was won in 1936 by the same fraternity. A third cup, presented in 1937, is now in competition.

THE AMERICAN LEGION TROPHY, a mounted silver shield, is annually awarded to the Reserve Officers' Training Corps company which shows itself to be the most proficient in attendance, neatness, set-up, and drill. The designation of the winning organization and the name of the company commander of that organization are annually inscribed upon the shield. The shield was presented by Burlington Post, No. 2, of the American Legion.

THE CRAIG TROPHY was donated to the University of Vermont by Major M. E. Craig, in honor of the 1936-1937 Rifle Team of the University of Vermont. Upon it, each year, is engraved the name of the man making the highest cumulative score throughout the year in the principal matches in which the University rifle team is a competitor. These competitions are The Hearst Trophy Match, The Corps Area Match and the matches in the New England League of the National Rifle Association. The award is announced annually by the Military Department. The trophy remains the property of the University of Vermont.

HONORS

Honors may be awarded at graduation for general high standing in scholarship, and also for conspicuous attainment in a particular department, as provided below.

The Honors awarded at graduation will be indicated on the Commencement program, and the graduate who wins Honors for general high standing may have the words *cum laude*, or *magna cum laude*, inscribed on his diploma, the particular designation to be determined by vote of the Senate.

On the morning of Commencement Day an Honor List will be published, containing the names of all who have gained Honors at graduation; of all who have won prizes during the year; and of such other graduates as may have presented theses or essays of conspicuous merit. This list also will be printed in the next annual Catalogue, with the names of those who have been awarded prizes.

The five students who are found to have secured the highest aggregate of marks during the entire four years' course of study in the College of

Medicine are designated Honor Men, and each is graduated as Doctor of Medicine, *cum laude*.

SPECIAL HONORS IN THE COLLEGE OF ARTS AND SCIENCES

A student in a group elective curriculum, who, at the end of his Junior year, has an average of B or above for the work of the preceding three years and lacks not more than two courses to complete his group requirements, may become an applicant for Special Honors in a particular subject and be enrolled in Honor Courses.

Notice of his intention to enroll in such courses must be filed, on a blank furnished for this purpose, with the Committee on Honors and Advanced Degrees at the conclusion of his Junior year.

A student whose standing justifies such a privilege will be allowed to enroll during his Senior year, in not more than twelve hours, in addition to his theses, six of which will be at the disposal of the head of the Department in which Honors are sought.

A student who is a candidate for Honors will be expected to prepare a thesis upon some topic designated or accepted by the head of the department, in which he is seeking Honors, and he must present this thesis to the Committee on Honors not later than May 10 of his Senior year.

Upon the approval by the Committee of his thesis, the student will be expected to pass an oral examination conducted by the head of the department, or by some one appointed by him, and at this examination at least one member of the committee, whose field of work is related to that of the candidate, will be present.

HIGH STANDING LISTS

The names of academic students who are to be commended for high standing in their studies will be announced at chapel and posted on the bulletin board at the beginning of the second half of the Freshman year, the first half of the Sophomore year and the first half of the Junior year. These lists are also published annually in this Catalogue. The names are to be divided into two groups of which the first will contain the names of those who have obtained "A" in all their college credit courses and the second the names of those who are ineligible for the first group, but whose grades have not fallen below "B."

DEANS' LISTS

The Deans of the three academic colleges publish at the beginning of each semester the names of those students who have attained an average of at least "B" in their college credit courses during the preceding semester.

DEGREES

Degrees are conferred upon the recommendation of the different Colleges as follows:

COLLEGE OF ARTS AND SCIENCES

CLASSICAL CURRICULUM; *Bachelor of Arts.* (A.B.)

LITERARY-SCIENTIFIC CURRICULUM; *Bachelor of Philosophy.* (PH.B.)

SOCIAL SCIENCE CURRICULUM; *Bachelor of Philosophy.* (PH.B.)

GENERAL SCIENCE CURRICULUM; *Bachelor of Science.* (B.S.)

CHEMISTRY CURRICULUM; *Bachelor of Science in Chemistry.* (B.S. IN CH.)

COMMERCE AND ECONOMICS CURRICULA (Business, Secretarial and Commercial Teaching); *Bachelor of Science in Commerce and Economics.* (B.S. IN CM. AND EC.)

SECONDARY EDUCATION CURRICULUM; *Bachelor of Science in Education.* (B.S. IN ED.)

*ELEMENTARY EDUCATION CURRICULUM; *Bachelor of Education.* (ED.B.)

*MUSIC EDUCATION CURRICULUM; *Bachelor of Education.* (ED.B.)

*INDUSTRIAL EDUCATION CURRICULUM; *Bachelor of Science in Education.* (B.S. IN ED.)

COLLEGE OF ENGINEERING

CIVIL ENGINEERING CURRICULUM; *Bachelor of Science in Civil Engineering.* (B.S. IN C.E.)

ELECTRICAL ENGINEERING CURRICULUM; *Bachelor of Science in Electrical Engineering.* (B.S. IN E.E.)

MECHANICAL ENGINEERING CURRICULUM; *Bachelor of Science in Mechanical Engineering.* (B.S. IN M.E.)

COLLEGE OF AGRICULTURE

AGRICULTURAL CURRICULA; *Bachelor of Science in Agriculture.* (B.S. IN AG.)

HOME ECONOMICS CURRICULUM; *Bachelor of Science in Home Economics.* (B.S. IN H.EC.)

COLLEGE OF MEDICINE

MEDICINE CURRICULUM. *Doctor of Medicine* (M.D.)

* Given in cooperation with Vermont State Board of Education. The degree is voted by the trustees of the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and the Senate Committee on Degrees. These curricula are without specific college affiliation.

GRADUATE STUDY

The graduate department is supervised by the Senate Committee on Degrees and Graduate Study. The degrees of Master of Arts and Master of Science may be earned after attendance in regular or summer sessions. Technical Degrees, awarded only to graduates of the College of Engineering of this University, require evidence of high professional achievement for at least four years supplemented by an approved thesis.

GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

For the purposes of assisting students whose undergraduate record and personal qualities give promise of success, either in research or in the profession of teaching, the University has established a number of fellowships and scholarships.

UNIVERSITY FELLOWSHIPS.—Seven fellowships of seven hundred dollars each the first year, and eight hundred dollars each the second year, with exemption from tuition charges, are awarded to students whose undergraduate record and personal qualities give promise of success either in research or in the profession of teaching. The fee for the degree is charged.

The holder of a fellowship is expected to work for the Master's Degree, to study some special problem of research and to give a certain amount of assistance to the department in which he holds the fellowship. The maximum amount of time devoted to this assistance, however, does not exceed eight hours per week. These Fellows are subject to such general rules as are in effect for those who are doing work for advanced degrees. In awarding three of these fellowships preference is given to applicants who are not graduates of the University of Vermont.

EXPERIMENT STATION FELLOWSHIPS.—A number of fellowships of nine hundred dollars each, with exemption from tuition charges, are awarded each year to full time research assistants in the Experiment Station who are working for the Master's Degree. All such awards are made on the recommendation of the Station Director. The fee for the degree is charged.

THE GEORGE H. WALKER DAIRY FELLOWSHIP is a grant of not less than seven hundred dollars, with exemption from tuition charges, available to graduate students who during their undergraduate course have studied "agriculture, chemistry and bacteriology" and who desire to study the problems relating to the production of a sanitary milk supply on comparatively small plants and farms. The endowment of ten thousand dollars is sufficient to provide biennially a fellowship for one year.

THE SHEFFIELD FARMS DAIRY FELLOWSHIP is a grant of nine hundred dollars per year, with exemption from tuition charges. This fellowship is derived from a grant of one thousand dollars per year provided by The

Sheffield Farms Company, Incorporated, and is available for 1939-1940 and 1940-1941. The purpose is to foster research in dairying for the benefit of producers.

THE UNIVERSITY GRADUATE SCHOLARSHIPS provide full and partial tuition rebate for graduate students. Ten scholarships of three hundred dollars each are awarded annually to selected students enrolled in the Graduate Department. The partial scholarships are variable in number and amount and are budgeted annually. In awarding one-half of these scholarships preference will be given to applicants who are not graduates of the University of Vermont.

AMERICAN SCHOOLS OF CLASSICAL STUDIES. The attention of graduate students interested in Greek, Latin, archaeology, and ancient art is called to the opportunities offered by the American Schools of Classical Studies at Athens and Rome. Since the University contributes to the support of these schools, any Vermont graduate may enjoy the privileges of study at either school without charge for tuition and may compete for the annual fellowships which they offer. Further information may be secured from members of the Department of Classical Languages.

REGISTRATION FOR GRADUATE STUDY

A graduate who holds a Bachelor's degree or its equivalent from an approved college or university may be admitted to graduate study and register for such graduate studies as he is prepared to take.

It is understood that a candidate in Arts shall have taken the degree of Bachelor of Arts or Bachelor of Philosophy, and that a candidate in Science shall have taken the degree of Bachelor of Science. If any other sequence of degrees is proposed the candidate shall satisfy the Committee on Degrees of his ability to do the work outlined. The Bachelor's degree, in order to be accepted, must have been taken at an approved institution.

New students must apply for admission to the chairman of the Committee on Graduate Work. They must file with the committee an enrollment blank approved by the department in which the major is to be taken. The payment of the required fees at the Comptroller's office completes registration.

Candidates must register not later than November 1 of the college year in which the degree is sought. Students in the Summer Session must enroll on the appointed day in each of at least three Summer Sessions.

On account of the seminar nature of most of the work the number of candidates selected for each department must be limited. All inquiries concerning the special opportunities for research in each department will

be referred to the head of that department, and only candidates who desire to work along lines in which the University offers exceptional advantages will be accepted.

Tuition is three hundred dollars a year. One-half of this charge is payable in advance on the first of each semester. No laboratory fees are charged but charges will be assessed for breakage. The fee for the Master's degree is twenty-five dollars.

Time alone is a minor consideration in all graduate work. Experience has shown, however, that at least the equivalent of a year's work is necessary for a student to fulfill the scholastic requirements for a Master's degree. The degree of Master of Arts or of Master of Science may be conferred for research work in a chosen field upon graduates of this University or of any other college or university of recognized standing, after one year's residence at this University. Research Fellows, because they assist in teaching, must be in residence during two full academic years.

THE MASTER'S DEGREES IN COURSE

As the requirements for the Master's degrees are based on the ability of the candidate to do original research in his chosen field the result of which must be presented in the form of a thesis, the work is distinctly individualistic and so-called graduate courses are not directly counted toward a degree.

The instructor in charge may require such graduate and undergraduate courses as seem essential for a proper understanding of the problem discussed in the thesis. Such preliminary work may prolong the time requirement.

A typical plan for graduate study is given below:

1. General readings. A course of general reading will be assigned by the committee, to be followed by a written report and examination.
2. The plan of major and minor study must be submitted and the application for candidacy formally presented to the Committee on Degrees not later than November 1 of the college year in which the degree is sought.
3. Each candidate is required to present a thesis upon some chosen topic within the major field of study which shall give the result of an investigation undertaken since graduation and show evidence of capacity for independent research. The candidate also will be expected to pass an examination before the Committee on Degrees, designed to test the thoroughness of the work done and fitness for the degree. Examinations for the Master's degree are held in May. The thesis must be presented not later than May 1, and will be deposited, if approved, in the University Library.

4. A minor subject must be chosen in a field of study different from that of the major. This minor must be closely related to the work of the thesis.

GRADUATE STUDY IN THE SUMMER SESSION

The requirements for the degrees of Master of Arts and Master of Science earned by attendance in Summer Sessions are essentially the same as those stated above with such minor adjustments as seem necessary.

Students of the Summer Session who desire to have their work count for credit toward an advanced degree should consult with the Director of the Summer Session regarding the selection of courses. Under his guidance a major and a related minor course of study should be chosen. It is desirable that students carry three courses each year while meeting the residence requirements.

At least three summers before the candidate expects to complete his work, he should select a thesis topic in the chosen major field. This topic should be selected only after consultation with the supervising instructor and should be presented to the Committee on Degrees for approval. The outline, method and development of the thesis *must* be under the constant direction of the supervising instructor, assisted by the Committee on Degrees.

A course of general readings will be assigned by the Committee on Degrees in addition to the work of the major and related minor, and a written report and an oral examination on the readings will be required.

The Director of the Summer Session, subject to the approval of the University Committee on Degrees, will assign supervising instructors for all students who register for work toward an advanced degree. The supervising instructors will make sure that the work followed is of graduate grade and that emphasis is placed on the ability for research.

An oral examination before the Committee on Degrees, covering the courses of study as well as the research method and the conclusions of the thesis, will be required.

At least four Summer Sessions will be necessary to satisfy the time requirement of residence.

THE MASTER OF EDUCATION DEGREE

The Degree of Master of Education is offered to those Summer Session students who wish to specialize in Education. Candidates for this degree are required to submit a transcript of their undergraduate records before they are accepted for matriculation. If they have not had a sufficient number of courses in Psychology and Education they will be required to take additional courses of undergraduate grade in these fields. Their records as undergraduates must be of such a character as to indicate ability

to do graduate work. Matriculation should take place during the first summer of residence.

Upon matriculation an adviser will be appointed by the Committee on Degrees under whose direction a systematic course of study, continuing for four summers and including not less than thirty semester hours of approved graduate work, will be planned. All courses taken for credit toward this degree must be of such a character as to develop ability in research and must be passed with high standing. The course entitled, "The Intellectual Background of Modern Life" is required of all candidates for this degree.

A course in general readings will be prescribed. Abstracts of these readings will be required and a preliminary oral examination will be conducted. The readings should be completed and the preliminary examination should be taken as early as possible during the four summer sessions of residence.

A thesis may be accepted in lieu of six semester hours of graduate study provided that it is developed under the direction of the Department of Education at the University of Vermont and is approved by the Committee on Degrees.

The degree Master of Education will be awarded upon the passing of a comprehensive examination when the thirty semester hours of graduate study have been completed.

The fee for the Master's degree when earned through attendance at Summer Sessions is twenty-five dollars.

THE TECHNICAL DEGREES

The advanced degrees of Civil Engineer, Mechanical Engineer and Electrical Engineer may be conferred upon graduates of the College of Engineering of the University of Vermont of at least four years' standing, who shall have been engaged in professional work, for at least three years, in positions of responsibility and shall have shown ability to design and execute important engineering work.

The candidate must present a satisfactory thesis upon some technical subject that shall show original investigation. The candidate shall present to the Committee on Degrees, not later than October 10 of the college year in which the degree is sought, an outline of his thesis and a concise statement of his technical training and experience.

The subject of the proposed thesis as well as the professional record must be approved by the Committee on Degrees.

The thesis shall be presented to the Committee on Degrees not later than May 15, in order that the Committee may approve and recommend the candidate for the appropriate degree.

The fee for these degrees is twenty-five dollars.

UNIVERSITY EXTENSION

The aim of the University Extension work is to broaden the horizon of those who have not had the advantages of a college education and to afford an opportunity for those who have attended college to keep in touch with academic thought along their favorite lines, or to gain some information about subjects which they have not studied in college.

The Extension work includes:

1. THE AGRICULTURAL EXTENSION SERVICE. (See Index.)
2. SUMMER SESSION.
3. EDUCATIONAL CONFERENCES.
4. CONFERENCE WITH EDITORS OF HIGH SCHOOL PUBLICATIONS.
5. EXTENSION COURSES. Several departments are prepared to offer extension courses in various subjects. It is possible to arrange for such courses to be given in any town where a group of reasonable size can be enrolled. Enrollment is open to all who are interested. Those who satisfactorily complete an extension course of thirty hours are granted two semester hours' credit at the University of Vermont. The State Board of Education grants to those teachers who satisfactorily complete approved courses, limited credit towards higher certificates. The amount of credit for extension courses allowed toward a degree is limited. Information regarding courses and expenses may be obtained by addressing the Chairman of the Committee on University Extension.
6. LECTURES. These are given by members of the Faculty, or other persons affiliated with the University, on topics of general interest. Single lectures, or courses of lectures (available throughout the State) are offered by members of the Faculty. The number of lectures in a course will be determined by circumstances. A list of the lectures offered will be mailed on request and further details concerning the work indicated above may be had from the Chairman of the Committee on University Extension. Inquiries relating to agriculture should be addressed to the Agricultural Extension Service.
7. RADIO BROADCASTING. From time to time the University, using the facilities of a local broadcasting station, provides educational programs contributed by members of the faculties of the four colleges and Experiment Station staffs. The musical programs are under the auspices of the Department of Music. A series of talks, sponsored by the Museum staff, is presented weekly throughout the year.

8. **THE LIBRARIES.** The books of the general and special libraries of the University are available for loan to the people of Vermont. Many books are sent each year on loan to other libraries, clubs and organizations and to responsible individuals. The only charge is the cost of transportation. Application should be made to the Librarian.
9. **THE FLEMING MUSEUM.** The Robert Hull Fleming Museum is an active agency in the extension program of the University. The exhibits have been made available to city and rural schools. With the cooperation of Parent-Teachers' Associations, The Better Films Council and many other volunteer groups and individuals, the Museum offers on Saturday afternoons, entertainments, moving pictures, a story telling hour, and illustrated talks. These instructive programs interest and attract large groups of young people. The Fleming Museum Art Association has a large membership. Working with the Museum staff these organizations arrange addresses and special art exhibits, all of which are free to the public. University lectures, plays and musicals, as well as the programs of a number of scientific societies and civic clubs are held in the auditorium of the Museum. Many thousand people visit the Museum annually. Information can be secured from the Director.

THE SUMMER SESSION

A Summer Session is maintained each year for a period of six weeks. Subjects offered include Art, Botany, Chemistry, Commercial Subjects, Dramatic Art, Economics, Education, English, French, Geography, German, History, Home Economics, Industrial Arts, Italian, Latin, Mathematics, Music (instrumental and vocal), Philosophy, Physical Education, Physics, Political Science, Psychology, Spanish, and Zoology. The school is intended to meet the needs of various groups of students, such as:

1. Students or teachers who have completed a four-year college course and who wish to take advanced work for credit toward the Master's degrees.
2. Principals and superintendents of schools who desire to take fundamental or specialized courses in the fields of Educational Administration and Supervision.
3. Students or teachers with adequate preparation who desire to take courses leading to a Bachelor's degree.
4. Teachers in elementary or secondary schools who desire to earn credit toward State teachers' certificates of higher grade or who desire to broaden their knowledge of the subjects they teach.

5. Students who desire instruction in Art, Music or Physical Education.
6. Persons who desire to take courses for self-improvement.

A special bulletin giving a full description of courses will be sent upon application to the Director of the Summer Session.

EDUCATIONAL CONFERENCES

TEACHERS' CONFERENCE

It has become the policy of the University to hold annually in March an educational conference with the schools of the State.

The project is a part of the University's contribution to the effort which is being made by the various educational forces of the State to improve our institutions of all grades from the primary school to the college and the University. In selecting a topic for the conference an effort is made to look to the future and anticipate the problems which Vermont must consider. The aim is not to enlist the interest of the general public by popular addresses, but to bring to the teachers of the State, year by year, expert reports and opinions relating to some of our many serious educational problems. This conference is held in connection with the convention of the Champlain Valley Teachers' Association. The exact dates of the conference will be found in the University calendar.

HIGH SCHOOL EDITORIAL CONFERENCE

A conference is held late in the fall each year with representatives of high school publications and teachers of English in schools publishing high school papers. Its purpose is to aid, by means of addresses and discussions, in the solution of editorial and business problems, and to encourage the use of contributions to school papers as part of the regular work in English. The Trustees of the University have provided special scholarships in further encouragement of this activity in the secondary schools.

MILITARY TRAINING

Military training is required of all male members of the Freshman and Sophomore classes in the Colleges of Arts and Sciences, Engineering, and Agriculture, and is elective to those members of the Junior and Senior

classes in these colleges who are approved by the Professor of Military Science and Tactics. The successful completion of the four-year course qualifies the student for appointment as Second Lieutenant of Infantry in the Reserve of the Army of the United States.

Basic and advanced courses in Medico-Military Science are offered in the College of Medicine. Enrollment is in the Medical Corps Unit.

For details in regard to these courses, see index references.

PHYSICAL EDUCATION

There are two departments of Physical Education, one for men, the other for women. The courses for men are held in the Gymnasium and Cage on University Place. The Mabel Louise Southwick Memorial on Redstone Campus provides the facilities for women. Separate tennis courts and playing fields are maintained for outdoor instruction of men and women. Near the men's gymnasium there is a large rink which provides facilities for skating and ice hockey. Skiing privileges are available on Mount Mansfield at Underhill Center.

The Freshman and Sophomore students of all colleges except Medicine are required to enroll for two credit hours of this work. Both men and women may elect advanced courses during the Junior and Senior years.

At the beginning of the college year, each new male student receives a thorough physical examination under the supervision of the Medical Director, the object of which is to detect the presence of disease, defects in muscular development and the condition of the eyes, ears, nose and throat. A record of the examination is kept on file as a basis of advice on all matters pertaining to health conditions and physical exercise. Each student is informed of any disease or defect which may be present, and proper advice is given. A woman physician conducts similar physical examinations for women.

The Department of Physical Education for Men is supervised and directed by an Associate Professor who has specialized in this work. His staff includes the Medical Director, Assistant Professors, Instructors, Coaches and Assistants. The Program of Activities is both extensive and intensive. It includes organizing and conducting fraternity, class, intramural and intercollegiate games and sports. The Athletic Council sponsors the intercollegiate program. Each student who is found physically fit is encouraged to play on some athletic team or to elect some definite recreational activity for which he has aptitude or interest. Regulation clothing is required of those taking work in this Department. The courses are described elsewhere in the catalogue.

The Department of Physical Education for Women has an Associate Professor at its head. She is assisted by two instructors and a lecturer on Hygiene. The physical examinations in this department are conducted by a woman who is a registered physician. The purpose of the instruction is to improve carriage, coordination and endurance, to provide knowledge of general hygiene and disease prevention, and to create habits of physical exercise and recreation that will be useful, enjoyable and beneficial in later years. A description of the courses offered will be found elsewhere.

ATHLETICS

The general athletic policy of the University is directed by the Athletic Council, the executive officer of which is the Graduate Manager. The Athletic Council is composed of four faculty members, four alumni members, the four varsity sports managers and the Graduate Manager.

The various athletic teams, within the limits defined by the University faculties, are open to all *bona fide* students of the institution. The Athletic Council recognizes as major intercollegiate sports, football, baseball, basketball and track; as minor sports, cross-country, tennis and rifle. Freshman sports are football, baseball, basketball, track, cross-country and tennis.

Representative and interesting schedules are arranged with other New England and eastern colleges. In the spring during Easter vacation, the baseball team plays a pre-season schedule in the South.

All teams come under the direct supervision of resident coaches who are members of the faculty and are experienced in their respective fields. Fundamentals are stressed and organized team play is encouraged.

The Medical Director for Men supervises the physical condition of all team members. Each candidate for an athletic team must pass a special physical examination before becoming eligible for membership. A well-equipped Medical Room is maintained in the gymnasium for the benefit of team members and arrangements with the Mary Fletcher Hospital enable those team members who need specialized treatment to receive the best of medical care.

The University of Vermont maintains active membership in the National Collegiate Athletic Association, the New England Intercollegiate Amateur Athletic Association, the Eastern Intercollegiate Athletic Association, the Association of New England Colleges for Conference on Athletics and the Association of Connecticut Valley Colleges on Officials.

Athletic fields and gymnasium facilities are described elsewhere.

RELIGIOUS LIFE

The University, although it has no connection with any particular denominational body, endeavors to develop an earnest appreciation of ethical and social obligations, and to encourage participation in religious activities.

The activities involved in religious endeavor and worship are carried on by various voluntary associations, the Young Men's Christian Association, the Young Women's Christian Association and the various church clubs for college men and women. These societies primarily of, and for, students are advised by faculty men and women who serve as members of the respective advisory boards. In this informal way there is cooperation between the various student associations and faculty members of like denominational preferences.

Local churches are eager to interest and enlist college men and women of their own communion in their various exercises, and Sunday classes especially for students are held. Chapel services are held Wednesdays at 10 o'clock. They last twenty minutes and include five-minute addresses by members of the clergy from Burlington or elsewhere in the State. Attendance at present is optional.

Six or seven vesper services are held in the University Chapel once a month on Sunday afternoons during the college year. Eminent clergymen from outside the State usually are secured for these services.

CHRISTIAN ASSOCIATIONS

The Young Men's Christian Association is a student and faculty organization for the development of Christian ideals in the University. It is supported and maintained by the students, faculty, alumni, and friends of the University. The program of its activities includes a wide variety of religious and social service, including devotional meetings, discussion groups, the Freshman reception, the Handbook, deputation trips to nearby communities, and the operation of the College Rooming and Employment Bureau. The Y. M. C. A. office is in the Old College Building and is open daily for service. An employed general secretary is giving his whole time to the work. There is an incorporated advisory board consisting mostly of faculty members which is responsible for the continuation and the character of the work. A Freshman student camp is held each year at the State Y. M. C. A. Camp, Abnaki, on the island of North Hero, during the week-end preceding the opening of the University in September.

The Young Women's Christian Association is an organization of the women students and Faculty women for the same purpose as the men's association. It unites with the Y. M. C. A. in welcoming the new stu-

dents each year through the Freshman reception and the Vermont Handbooks for men and women which furnish University information useful to entering students. During the year regular meetings are held with a wide variety of programs, seeking to foster the very highest ideals among the students.

ORGANIZATIONS

Believing that the right sort of companionship and recreation play an important part in the building of character during the formative college period, the University in various ways, lends encouragement to all legitimate student organizations. The different religious, social, and athletic bodies, therefore, endeavor to meet the needs of the students without interfering with the main purpose of a college course.

FACULTY-STUDENT COUNCIL

The Faculty-Student Council has been enlarged and now includes the Women's Council. It is composed of eight faculty members, six men and two women, appointed by the President, and fourteen students, ten men and four women, elected by classes. The men choose one Senior and one Junior from each of the four colleges, and two are chosen at large from the Sophomore class. The women elect two members each from the Senior and Junior classes. These are elected as early as practicable in each college year. The Council has been formed for the purpose of establishing cordial relations between Faculty and students as well as cooperation in regulating and controlling all student activities. Any subject which concerns the students may be brought before the Council and, after full discussion, either may be settled by it or referred to the Senate for action. No student organization may hold a dance without the consent of the Council. Requests must be presented to the secretary at least one week before the date on which it is proposed to hold the dance.

WOMEN'S STUDENT UNION

Every woman entering the University upon enrollment automatically becomes a member and comes under the authority of the Women's Student Union Association, unless she is a resident of Burlington living with parents or guardian. This organization has the power to regulate all matters of student conduct not academic in nature. It aims to develop the individual through opportunities for responsible leadership and to promote self-control through the application of the honor code. Cooperation based upon a thorough understanding of the rules and regulations

of the Association is expected of each student. In order that the student may be informed about the more important social regulations, a summary is sent to all applicants before admission.

Student Union meetings are held at stated intervals. All women students are expected to attend these mass meetings as in no other way can they keep in touch with matters with which student government is concerned.

MUSIC ORGANIZATIONS

Under the Department of Music, several organizations are maintained, membership in which is attained by students of ability and interest in music, on the basis of competitions held early in each college year.

The University Choir consists of both men and women and is limited to about thirty voices. Its function is not only religious, but also artistic and educational. The music is chosen from the masterpieces of choral music of all ages. The choir sings at the Wednesday morning and Sunday afternoon chapel services, and rehearses twice a week.

The Chapel Orchestra includes both string and wind instruments. It accompanies the choir at services and rehearses once a week. The Choir and Chapel Orchestra join in an annual Christmas Concert and Lenten-Easter Concert. Members of these two organizations receive a small honorarium for each service and hour of rehearsal.

The Men's and Women's Glee Clubs are separate organizations which rehearse once a week. They join in an opera each year, and have taken part in the New England College Glee Club Festivals and other concerts with other colleges, besides local concerts.

The University Orchestra is similar to the Chapel Orchestra but plays secular music. It performs at college plays, the Glee Club concerts and opera. It rehearses once a week.

SOCIAL GROUPS

Thirteen national and four local academic fraternities, ten for men and seven for women, as well as one medical fraternity for men, have chapters at the University. Admittance to these organizations is by invitation.

OUTING CLUB

The University has a very active Outing Club, which is under the supervision of the Physical Education Departments. Features of its work are organized hikes, mountain climbing, snowshoeing, and skiing. During the winter term a large skating rink is maintained on the campus. An Intramural Winter Sports Meet is held annually. Winter recreational facilities are available to members of the Outing Club at Underhill Center on the western slope of Mount Mansfield.

HONORARY SOCIETIES

The Phi Beta Kappa Society established the Vermont Alpha Chapter at the University in 1849. Elections of seniors are made in December and at Commencement. The initiates are chosen primarily on the basis of high scholastic standing. The local chapter was the first in Phi Beta Kappa to initiate women into membership.

The Boulder Society, a self-perpetuating group of Senior men, is recognized as an organization responsible for student leadership. Election to this society is counted one of the highest honors that a University man may win. A feature of each Founder's Day is a meeting of this organization at which time the names of new members are announced.

Other honorary class societies for men that are active on the Campus are the Key and Serpent a Junior honorary society, Gold Key a Sophomore society, and Cap and Skull the Senior Medical honorary society.

Mortar Board, national Senior honorary society for women, has an active chapter at the University. By such an affiliation women at Vermont are brought in closer contact with outstanding college women throughout the country while they still maintain their local significance of service to the Vermont campus. Though membership in Mortar Board comes as the greatest honor for a Vermont woman in recognition of outstanding service, scholarship and leadership, it is far more than an honor. It is much rather a challenge for continued sound and honest scholarship, for unselfish service in the best interests of the college campus and for the finest type of womanhood.

In 1938 two honorary class societies for women were organized. The Junior Society, organized as the Junior Councilors, has recently adopted the name Staff and Sandal. Its membership of twelve is elected by the Junior class from the outstanding leaders of the class.

The Sophomore Aides elected annually by the Sophomore class, numbers fifteen of the women who in their Freshman year gave evidence of the qualities of scholarship, leadership and service. This group serves as assistants to Mortar Board.

DEPARTMENTAL CLUBS

There are many active departmental clubs which are encouraged by the University. In some, election is an honor recognizing special ability or aptitude. Others foster a general interest in the work of certain departments. These clubs usually represent the spontaneous desire of a group of students for additional educational and social opportunities and experiences.

In the College of Arts and Sciences there are several clubs organized by students who are majoring in Languages, the social and pure Sciences and

for students who are preparing for careers in Chemistry, Medicine and Teaching.

The Agricultural and the Home Economics Clubs are active in the College of Agriculture.

In the College of Engineering there are student branches of the American Society of Civil Engineers, the American Institute of Electrical Engineers and the American Society of Mechanical Engineers.

Students in the College of Medicine are all members of the Osler Club, which holds meetings at least once a month throughout the college year.

GRADUATE STUDENTS CLUB

The Graduate Club, conducted by the students of the University who are candidates for Master's degrees, meets monthly during the regular session and weekly during the summer session. The program of the meetings includes an open discussion of a topic selected by the graduate students. This is followed by a social hour.

UNIVERSITY LECTURES

The University Lectures inaugurated in 1926-1927 were established for the purpose of bringing to the Campus men and women of unusual personal qualities in combination with high distinction in some line of intellectual or artistic achievement.

The program for 1939-1940:

NOVEMBER 7:

Professor Millar Burrows, Yale University,
"Prehistoric Archaeology in Palestine and Mesopotamia" (Illustrated).

NOVEMBER 23:

Professor R. F. M. Veit Valentin, University of London,
"The Causes of the Present European War."

FEBRUARY 1:

Professor J. F. Fulton, Yale University,
"The Functions of the Frontal Lobe; an Experimental Analysis"
(Illustrated).

MARCH 5:

S. K. Ratcliffe, London,
"What Next in Europe?"

APRIL 11:

Sheldon Cheney,
"Art and Life Through 30,000 Years" (Illustrated).

PUBLICATIONS

THE CYNIC is a semi-weekly student newspaper issued during the college year.

WINNOWINGS FROM THE MILL is a student literary magazine issued once a year.

THE ARIEL is the annual publication of the Junior Class.

THE VERMONT ALUMNUS is issued monthly under the auspices of the Alumni Council.

THE VERMONT BULLETIN is entered as second class matter. It is issued by the University four times a year and includes the annual Catalogue, the Summer Session numbers and the Medical Bulletin.

THE SUMMER SESSION CALENDAR is published five times a week during the Summer Session.

REGULATIONS

The general principle governing the conduct of the students is set forth in the following ancient and frequently reenacted law of the University:

"The conduct of the students toward all men is to be regulated by those plain rules of politeness, honor and religion which are binding on every free and virtuous community. They are to conform to every requirement of the Faculties, which may arise from their relations as instructors, counselors and guardians, and as upright men and good citizens, they shall use all lawful exertions to prevent and to expose all violations of the laws of God and of the country, and whatever is at variance with the objects of the University."

A booklet giving the regulations of the University may be obtained at the Registrar's office. All students are held responsible for a knowledge of these regulations and their proper observance. All women students, except those living in their own homes, are subject to the regulations of the Women's Student Union Association, which has the authority to regulate all matters of student conduct that are not academic in nature or do not fall under the jurisdiction of the faculties or the University Council. The regulations of the Association concerning chaperonage and social engagements, are in force throughout the entire period of a student's residence in Burlington, both before the starting of classes and after final examinations.

SPECIAL REGULATIONS FOR WOMEN

The Dean of Women and the Assistant Dean of Women are in charge of all administrative matters pertaining to University women and, in cooperation with the House Directors and Student Union, formulate house rules and enforce all regulations governing the social life of women students.

The Dean of Women endeavors to assist the women students to make satisfactory adjustments to college life so that the highest possible standards of scholarship may be maintained and a constructive social program may be enjoyed by every student.

A program of student counseling by faculty advisors, the services of vocational guidance specialists and the opportunity for frequent consultation with the Dean of Women are all designed to assist the individual student in solving both academic and personal problems.

Consultation with the parents of prospective students is always welcomed and the needs of each individual student are given careful consideration.

The Assistant Dean of Women gives particular attention to all matters relating to the housing of women students and to opportunities for employment for those desiring to help themselves.

SCHOLASTIC REPORTS

All students enrolled in the Academic Colleges receive reports of scholarship from the Registrar's office twice a year. Special reports of low standing of students in the Freshman and Sophomore classes are sent by the Deans' offices at least twice during the first and at least once during the second semester. All these reports are made both to the student concerned and his parent or guardian.

In the College of Medicine one report is sent covering the work of the college year.

On leaving the University every former student or graduate may procure one photographic transcript of record without charge. Extra copies may be obtained at a cost of one dollar per copy.

Admission

THE ACADEMIC COLLEGES

GENERAL STATEMENT

Candidates for admission to the University of Vermont must be at least sixteen years of age, and must furnish from the Principal of each preparatory school which has been attended, a statement of the courses completed and a recommendation as to moral character and ability to do satisfactory college work. This information is incorporated on the regular admission blank, which should be filed with the Registrar early in the summer of the year in which entrance is sought. An application for registration should be filed by the student on a card furnished by the Registrar's office.

REQUIRED SUBJECTS

For unconditioned admission, all colleges of the University require fifteen (15) units, each unit representing a full year's work with recitations four or five times a week. Of these units, the following are prescribed for curricula in the College of Arts and Sciences:

	UNITS
English (4 years)	3
Language (Ancient or Modern)	2
History or Social Science	1
Algebra (Elementary)	1
Plane Geometry	1

In the College of Engineering, these requirements are modified, one and one-half units in Algebra being prescribed, but the two units of classical or modern language need not be offered. Solid Geometry, if not presented must be taken as an extra subject for which a special fee is charged.

In the College of Agriculture the requirements as specified for the College of Arts and Sciences are correct for the Home Economics curriculum. The curricula in Agriculture do not require the presentation of ancient or modern language.

Preparation in this subject-matter is very desirable for anyone who is about to undertake college work at this institution. For this reason

entrance conditions are rarely permitted in these subjects. Applicants who are well and fully recommended for admission by the Principal of an approved school, may be permitted to enter with entrance conditions in elective subjects, provided the conditions do not exceed two units. Students having such conditions carry the regular work during the first year, but the condition is removed from the record at the end of the year by a sacrifice of college credit in the amount of three semester hours for each unit or two semester hours for a half unit. The resulting shortage of college credit is made up by a corresponding amount of extra work some time during the last three years or at a Summer Session.

GUIDANCE

Students who plan to enter the University should consult the Principal of their preparatory schools and, if necessary, with University officials for advice and guidance regarding their educational futures. Preparatory courses should be selected in anticipation of unconditioned admission and in correlation with the subject-matter of the college curriculum to be taken. The student should counsel with the Principal as to his personal fitness for college work and for the curriculum to be selected. The student should be informed concerning expenses, self-help opportunities and the possibilities of employment after graduation. After enrollment in the University each student is assigned a faculty counselor. The Deans are always willing to assist students and to advise them in personal and educational matters.

METHODS OF SELECTION

In selecting those applicants who are capable of doing satisfactory college work it is the policy of the University to follow the recommendation of the Principal of the approved school from which the applicant has been graduated. This recommendation is not determined by any one factor, but represents the best judgment of the Principal based on all the facts at his command which pertain to the ability of the applicant and his probable success in college. Recommendations may be given; for admission without examinations, or with examinations in specified subjects, or with examinations in all subjects.

A recommendation for admission without examination implies that the applicant has a serious purpose in seeking entrance and that he has, in the Principal's judgment, the ability to do satisfactory college work. Examinations in specified subjects may be assigned for the protection of the applicant when important preparatory work is of low grade. Pre-

paratory school graduates whose records do not warrant fairly complete recommendation and who therefore could qualify only by several entrance examinations are presumed to be mentally or temperamentally unfitted for college work and are advised not to attempt to enter.

LIMITED ENROLLMENT

The teaching facilities of the University make it necessary to limit enrollment. Prospective students are advised to make early application for registration on the regular form provided for the purpose. For admission to the Academic Colleges preference is shown to applications from students of high scholastic standing, regardless of residence.

The enrollment in all acceptable medical colleges is strictly limited by recommendation of the American Medical Association. State appropriations give residents of Vermont preference in selection. The applications of non-residents can be considered only if scholastic records and aptitude scores are conspicuously high.

ADVANCED STANDING

Candidates for admission in advanced standing are required to file a complete statement of entrance and college credit and a letter of honorable dismissal. The regular admission requirements of this institution must be fully met and the prescribed courses and other requirements of the curriculum selected must be completed before a degree will be recommended. It is the policy of the University to reject all applications for transfer except those presenting superior scholastic records and offering compelling personal reasons in justification of the proposed change.

ENTRANCE CREDITS

Of the fifteen units required for unconditioned admission, eight units are prescribed for the curricula in the College of Arts and Sciences and for the curriculum in Home Economics in the College of Agriculture. For other curricula in the College of Agriculture six units are in the prescribed group. Students applying for admission to the College of Engineering should present the seven units shown below. On special recommendation of a Principal, students of superior scholastic ability may be enrolled without full credit in all subjects of this group. When necessary such entrants are protected by special enrollment. The remaining units may be chosen from the elective and vocational subjects under such restrictions as will be found under the special requirements of the several curricula.

REQUIRED SUBJECTS

COLLEGE OF ARTS AND SCIENCES

	UNITS
English (4 years)	3
Algebra (Elementary)	1
Plane Geometry	1
History or Social Science	1
Two years of one Classical or Modern Language	2
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COLLEGE OF ENGINEERING

	UNITS
English (4 years)	3
Algebra (Elementary and Intermediate)	1½
Plane Geometry	1
Solid Geometry	½
History or Social Science	1
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*COLLEGE OF AGRICULTURE

	UNITS
English (4 years)	3
Algebra (Elementary)	1
Plane Geometry	1
History or Social Science	1
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	6

ELECTIVE SUBJECTS

	UNITS
Latin	2, 3 or 4
Greek	2 or 3
French	2 or 3
German	2 or 3
Spanish	2 or 3
Ancient History	½ or 1
European History	½ or 1
English History	½ or 1
American History	½ or 1
Civil Government or Citizenship	½ or 1
Social Science	½ or 1

* Students applying for admission to the Home Economics curriculum in this College are expected to present two units of a classical or modern language.

	UNITS
Economics	$\frac{1}{2}$ or 1
Intermediate Algebra	$\frac{1}{2}$
Advanced Algebra	$\frac{1}{2}$
Solid Geometry	$\frac{1}{2}$
Trigonometry	$\frac{1}{2}$
Physics	1
Chemistry	1
Botany	$\frac{1}{2}$ or 1
Zoology	$\frac{1}{2}$ or 1
Physiology and Hygiene	$\frac{1}{2}$ or 1
Physiography	$\frac{1}{2}$ or 1
General Science	$\frac{1}{2}$ or 1

*VOCATIONAL SUBJECTS

Mechanical Drawing	$\frac{1}{2}$ or 1
Free-hand Drawing	$\frac{1}{2}$ or 1
Shop Work	$\frac{1}{2}$ or 1
Stenography and Commercial Subjects	$\frac{1}{2}$ to 2
*Agriculture	$\frac{1}{2}$ to 2
Home Economics	$\frac{1}{2}$ to 2

THE UNIVERSITY CURRICULA

THE COLLEGE OF ARTS AND SCIENCES

The following general and specialized curricula are offered in the College of Arts and Sciences. Except for the Classical, Literary-Scientific and Social Science curricula the subject-matter of the seven elective units is not restricted. In the General Science, Pre-Medical and Chemistry curricula, however, one year of laboratory science is recommended in preparation.

In the Classical curriculum College Greek and Latin are required. Applicants who do not present the training necessary to undertake these college courses are required to enroll in preparatory courses, for which credit is allowed when the college courses are completed.

* A full year course in a Vocational Subject is credited at one-half unit. The total credit accepted from this group is limited to two units in any one subject and to four units in the entire group. Students applying for admission to the College of Agriculture may receive four units credit in Entrance Agriculture if the work was completed in a school receiving Federal aid in that subject.

In the Literary Science curriculum college Latin is prescribed. Elementary Latin is given in two courses, Latin A covering the equivalent of the first two preparatory years, Latin B the last two.

The Social Science curriculum requires the presentation of two years of preparatory Latin though no Latin is required in college. Students who register in this curriculum and do not present two units of Latin must enroll in Latin A.

Classical curriculum	Bachelor of Arts
Literary-Scientific curriculum	Bachelor of Philosophy
Social Science curriculum	Bachelor of Philosophy
General Science curriculum	Bachelor of Science
Pre-Medical curriculum	*Bachelor of Science
Chemistry curriculum	Bachelor of Science in Chemistry
Business curricula (Business, Secretarial and Commercial Teaching)	Bachelor of Science in Commerce and Economics
Secondary Education curriculum	Bachelor of Science in Education

THE COLLEGE OF ENGINEERING

Three curricula are offered; in Civil, in Electrical, and in Mechanical Engineering, each leading to the degree of Bachelor of Science in the field chosen. The subject-matter requirements of the eight elective units are not restricted. Superior students who may be accepted without either Intermediate Algebra, Solid Geometry or both must enroll in a special preparatory course, the fee for which is ten dollars.

Students who have completed two years of Mechanical Engineering may enter the Industrial Education curriculum as candidates for the degree of Bachelor of Science in Education.

THE COLLEGE OF AGRICULTURE

This college offers five Agricultural curricula in the fields of Plant Industry, Dairy Production, Dairy Manufactures, Teaching Agriculture in the Secondary Schools, and Agricultural Economics; all leading to the degree of Bachelor of Science in Agriculture. The nine elective units are not restricted. A curriculum in Home Economics leading to the Bachelor of Science degree in that subject is also given. The unrestricted

* The degree is awarded after the completion of three years in the College of Arts and Sciences and the first year in an approved Medical School.

electives for that curriculum total seven units as two units of classical or modern languages are regularly required.

It is recommended that a laboratory science be presented by students applying for admission to any curriculum in this college.

ELEMENTARY AND MUSIC EDUCATION CURRICULA

The curricula in Elementary Education and in Music Education requiring four years for completion, are offered by the University of Vermont and State Agricultural College in cooperation with the State Board of Education. The degree granted, by the Trustees on recommendation of the Head of the Department of Education and of the Senate Committee on Degrees, is Bachelor of Education.

QUALITATIVE ADMISSION REQUIREMENTS

Students who are admitted to the Elementary Education curriculum must have attained a scholastic standing which ranks them in the upper third of their high school graduating classes, except that with the very definite and positive recommendations of their high school principals and superintendents, students whose scholastic standing is between that of the upper third and that of the middle of the class may be accepted, if the quota is not filled before June 1.

A certificate grade in ten or more entrance units will admit a student who is recommended by the principal, provided that *practically* all the subjects taken in the last two years of the high school course were passed with certificate grades, and provided that the applicant meets all other requirements for admission.

Teachers who have completed one or two years of teacher preparation courses beyond high school may be admitted to the Elementary Education curriculum by presenting their high school records and by recommendation of their superintendent, but will not be graduated until all requirements for admission and all requirements of this curriculum shall have been met and completed.

Graduates of academic colleges may be admitted to this curriculum but must take not less than thirty semester hours of elementary education subjects, chosen under the guidance of the Head of the Department of Education, in order to meet the requirements for a certificate.

Each candidate, before being finally accepted, must be interviewed by a representative of the Department of Education at the University.

QUANTITATIVE ADMISSION REQUIREMENTS

Every applicant should present satisfactory evidence of having completed fifteen units chosen from the following subjects:

Recommended Subjects:

	UNITS
English (4 years)	3
History	1
Mathematics	1
Science	1
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Limited and Free Electives (9 units) to be selected from the following:

	UNITS
Classical or Modern Language	2, 3 or 4
History and Social Science	1 or 2
Mathematics	1 or 2
Science	1 or 2
Fine and Practical Arts	1
Commercial Subjects	1
*Free Electives (maximum)	3

HEALTH REQUIREMENTS

A certificate of good health and physical fitness must be furnished by each applicant from a practicing physician upon a blank furnished by the State Department of Education. In addition a physical examination is required of the applicant by the University. *Students with marked physical defects are not eligible for admission and should not apply.*

CHARACTER AND PERSONALITY REQUIREMENTS

The high school principal must furnish on blanks provided by the State Department of Education an estimate of the applicant's character and personality based upon the following traits:

- | | |
|----------------------------------|--------------------------|
| 1. Honesty. | 9. Dignity |
| 2. Reliability. | 10. Forcefulness. |
| 3. Consideration for others. | 11. Refinement. |
| 4. Acceptance of responsibility. | 12. Leadership. |
| 5. Loyalty. | 13. Cooperation. |
| 6. Good judgment. | 14. General personality. |
| 7. Adaptability. | 15. Good citizenship. |
| 8. Poise. | |

GUIDANCE

High school principals or those having the responsibility for the guidance and counseling of high school pupils are urged to assist students in their efforts to learn the qualifications which are demanded of teachers.

* These units of "Free Electives" may consist of any work which the high school accepts as meeting its graduation requirements.

Students should not be recommended for admission to the Elementary Education curriculum at the University unless they possess qualities of personality, character, health, physical fitness, intellectual ability and interest, which will justify the belief that they will become competent teachers.

Especial care should be taken in the recommendations for the Music Education curriculum. Each applicant before enrollment must be approved by the Head of the Department of Music.

NON-RESIDENT APPLICATIONS

Students from other states who meet all the entrance requirements may be admitted either to the Elementary or the Music Education curriculum if the maximum enrollment is not filled by Vermont students. Non-residents of Vermont who register in these curricula will not be exempt from tuition.

THE INDUSTRIAL EDUCATION CURRICULUM

This curriculum is offered in cooperation with the State Board of Education. The degree of Bachelor of Science in Education is given by the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and the Senate Committee on Degrees.

Since the first two years correspond closely with the requirements of the curricula in the College of Engineering, the admission requirements of that college are the standard for all students who choose this curriculum.

METHODS OF ADMISSION

Applicants for admission to the undergraduate colleges of the University may satisfy the requirements either by *recommendation* or by *examination*.

ADMISSION BY RECOMMENDATION

Graduates of Vermont schools, which are approved by the State Board of Education, are qualified for admission without examination, provided the preparatory work covers the necessary subjects, and provided the student receives the recommendation of the principal of the high school from which he has been graduated. Approval may be granted to any school outside of Vermont that is accredited in its own locality. The certificates and diplomas of the Regents of the University of the State of New York will be recognized in all acceptable subjects. Applications should be made to the Registrar of the University.

All students admitted on recommendation of the principal are regarded as being on trial during the first half-year. Certificate statements of secondary work are not accepted in lieu of scheduled courses in the University. Surplus entrance credit may be established as college credit only by advanced standing examination.

Admission certificates must be filled out by the high school principal, after graduation, on the forms provided by the University. An application for registration should be filed early in the summer of the year in which entrance is sought.

ADMISSION BY EXAMINATION

UNIVERSITY ENTRANCE EXAMINATIONS

Two regular examination periods for admission to the Freshman class are held each year, the schedules of which are given below. The University makes no charge for these examinations to *bona fide* applicants for admission.

The June examination may be taken at the University or at such places as may be selected. Requests for examinations outside of Burlington, to be taken at the same time as the corresponding examinations at the University, should be made to the Registrar before the first day of June. *The September examinations are held only at the University.* A candidate for admission to the Freshman class may take all the examinations at one period or may divide them between the two examination periods. No applicant will be admitted to the entrance examinations unless a detailed statement of his high school record has been previously filed with the Registrar. All examinations must be taken within sixteen months of the time of entering.

Students entering entirely by examination are given the option of comprehensive examinations in four or five fundamental subjects, provided secondary work has been taken covering the subjects required for admission.

SCHEDULE OF THE UNIVERSITY ENTRANCE EXAMINATIONS FOR 1940

Wednesday, June 5, and Friday, September 13.

9.00-10.45 A.M.—History (Ancient and English); Civics.

11.00 A.M.-12.45 P.M.—History (European and American).

2.00- 3.45 P.M.—Latin II.

4.00- 5.45 P.M.—Latin III & IV; Botany.

Thursday, June 6, and Saturday, September 14.

9.00-10.45 A.M.—French II.

11.00 A.M.-12.45 P.M.—French III; Greek; Physiography.

2.00- 3.45 P.M.—German II; Spanish.

4.00- 5.45 P.M.—German III; English.

Friday, June 7, and Monday, September 16.

9.00-10.45 A.M.—Chemistry; Zoology.

11.00 A.M.-12.45 P.M.—Physics; Physiology.

2.00- 3.45 P.M.—Algebra and Trigonometry.

4.00- 5.45 P.M.—Plane and Solid Geometry.

In the above schedule, I means first year's work in the topic; II, second year's work; III, third year's work; and IV, fourth year's work.

In 1941 the examinations will be held on June 11-13 and September 12-15.

Dates for subjects not scheduled will be assigned by the Registrar upon request. Students having conflicts should report to the Registrar in order that a schedule adjustment may be made.

Passing an advanced examination in a language will preclude the necessity of elementary examination in the same subject.

COLLEGE BOARD ENTRANCE EXAMINATIONS

The entrance examinations of the College Entrance Examination Board will be held at the University in Room 31, College of Medicine Building, June 15-22, 1940.

Detailed definitions of the requirements in all examination subjects are given in a circular of information published annually about December 1. Upon request to the Secretary of the College Entrance Examination Board a single copy of this document will be sent to any teacher without charge. In general, there will be a charge of thirty cents, which may be remitted in postage.

All candidates wishing to take these examinations should make application by mail to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y. Blank forms for this purpose will be mailed by the Secretary of the Board to any teacher or candidate upon request by mail.

The applications and fees of all candidates who wish to take the examinations in June, 1940, should reach the Secretary of the Board not later than the dates specified in the following schedule:

For examination centers:

In the United States east of the Mississippi River or on the Mississippi.....	May 27, 1940
In the United States west of the Mississippi River or in Canada.....	May 20, 1940

Outside of the United States and Canada, except in

Asia.....May 6, 1940
In China or elsewhere in the Orient.....April 22, 1940

An application which reaches the Secretary later than the scheduled date will be accepted only upon payment of five dollars in addition to the regular examination fee of ten dollars.

When a candidate has failed to obtain the required blank form of application the regular examination fee will be accepted if the fee arrives not later than the date specified above and if it be accompanied by a memorandum with the name and address of the candidate, the exact examination center selected, and a list of the subjects in which the candidate is to take the Board examinations.

When the examination supplies of the local Supervisor permit, candidates who have failed to file an application with the Secretary may be admitted, upon payment to the local Supervisor of a fee of five dollars in addition to the regular fee, to all examinations except the Scholastic Aptitude Test. Such candidates should present themselves at the beginning of the period of registration. A candidate who registers with the Supervisor will receive from him a blank form of application and an Identification Card which must be filled out and handed to the Supervisor for transmission to the Secretary of the Board.

In order to exhibit their tickets of admission, to present their identification cards and to obtain seats in the examination room, candidates should report for a morning examination at 8.45 and for an afternoon examination at 1.45. An examination will close for candidates admitted late at the same time as for other candidates. The examinations will be held in accordance with the time, Standard Time or Daylight Saving Time, observed in the local schools.

No candidate will be admitted to the Scholastic Aptitude Test late, that is, after the test has begun.

The Scholastic Aptitude Test may be taken upon the completion of the school course or at the end of the third year of secondary school work. Each candidate desiring to take this test, even though he is to take no other examination, must file with the Secretary of the Board the usual application for examination. Every candidate who registers for the test will receive a practice booklet containing a specimen test with blank spaces to be filled in by the candidate. In order to secure admission to the test, the candidate must present not only his ticket of admission but also this booklet with the spaces filled in as requested. If the Scholastic Aptitude Test is taken in connection with other examinations, no additional fee is required; if taken alone, the fee is ten dollars.

ENTRANCE SUBJECTS

LANGUAGES

ENGLISH. The requirement in English is designed to develop in the student the ability to read with understanding, and to express himself clearly and accurately. This training is to be viewed not merely in its bearing upon the student's work in courses in English, but in its relation to his work in all other subjects.

A fundamental aim in the study of *literature* is to develop the student's enjoyment of good reading, and his recognition of the varied elements in literature, particularly the artistic, social, and personal. No formal process of study should obscure this aim. Any carefully organized course of secondary school study of literature should recognize the importance of immediate interest in the thing read, and of clear understanding of its content and of its general significance in relation to author, period, type, and social background. The measure of the student's achievement in literature will be ability to discuss his reading intelligently, and with a usable knowledge of elementary critical terms. A satisfactory course should therefore provide a sufficient acquaintance with traditionally great literature and with recognized literary types.

Training in *composition* aims to stimulate the student's original powers of expression, both logical and imaginative, and to enable him to develop and organize his material in a way that reflects his own incentives and interests.

The test in composition will assume continuous and thorough training in mechanics. This training implies a mastery in practice of the essentials of grammar as an aid to the discussion of phraseology, syntax and general structure, and of problems of meaning and interpretation. It implies also habitual correctness in punctuation, spelling, capitalization, and sentence and paragraph construction. In addition, it assumes a reasonable maturity of vocabulary, and such a command of varied and flexible sentence forms as may be expected from systematic training in language as the effective instrument of thought. Such instruction necessitates constant and painstaking practice by the candidate in criticism and revision of his own written work.

It is important that as far as possible the student be taught to use library facilities such as dictionaries, encyclopedias, card catalogues, indices, periodicals, readers' guides, and other works of reference.

The *examination* assumes a close and thoughtful acquaintance with a substantial amount of worthy literature, and a general knowledge of the more important literary types. These should include Drama, Prose Narrative, Poetry, Essays, Biography and Miscellaneous Prose.

Teachers and students are referred to a list of suggested readings in English published annually by the College Entrance Examinations Board, 431 West 117th Street, New York City.

However accurate in subject-matter, no entrance paper in English will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination may be divided into two parts, one on grammar and composition (2 UNITS), and the other on literature (1 UNIT).

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies. The main test in composition will consist of one or more essays, developing a theme through several paragraphs. The subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading.

FRENCH. The first year of French should include the elements of the grammar, careful drill in pronunciation, abundant writing of easy French prose. In the grammar, one year's work should cover the essential elements. The reading should represent the completion of a good reader and such texts as *Contes de Fées*, Halévy's *Abbé Constantin* or Laboulaye's *Contes bleus*. The second year's work should include a more detailed study of the grammar, and the reading of about 250 pages of French prose and poetry of average difficulty, practice in translation at sight, ability to translate into French English sentences of moderate difficulty. The grammar should represent the content of a standard French grammar. Suitable texts are: About, *Le Roi des Montagnes*; Lamartine, *Scènes de la Révolution française*; Mérimée, *Colomba*; Labiche and Martin, *Le Voyage de M. Perrichon*; Malot, *Sans Famille*, etc. (2 UNITS.)

The third year should include thorough study of the grammar and the reading of about 300-400 pages of standard French, together with practice in translating into French passages of connected English. Part II of Fraser and Squair's *French Grammar*, or a work of similar content, would satisfy the requirement. Suitable texts are: Hugo, *Hernani* or *Ruy Blas*; Sandeau, *Mlle de la Seiglière*; Loti, *Pêcheur d'Islande*; Balzac, *Eugénie Grandet*; Daudet, *la Belle Nivernaise*; Thiers, *Expédition de Bonaparte en Egypte*; Corneille, *Le Cid*; Molière, *le Bourgeois Gentilhomme*; Racine, *Athalie*.

Dictations should be employed frequently to accustom the ear to the sounds of the spoken language. In the second and third year it will be found useful to devote some time to abstracts and paraphrases in French of portions of the works read. Where possible elementary practice with conversational exercises is desirable. (1 UNIT.)

GERMAN. In Elementary German, which presupposes two years of work, the chief aim should be the ability to read with comprehension easy German prose. As a means to the acquisition of this ability, particular attention should be given to accurate pronunciation, to oral and aural drill, and to the building up of a vocabulary of common words and expressions. The study of grammar during the first two years is regarded as subsidiary to the acquisition of reading ability. This reading knowledge may be tested by translation of sight passages or by English answers to German questions on passages set. In the first year, 75 to 100 pages should be covered in class, a slightly smaller amount of very easy material as collateral reading outside class. In the second year, the amount covered in class should be 200 to 250 pages, with collateral reading of easier texts totaling 150 to 200 pages. Some of the material read may deal with physical and historical aspects of Germany. The following texts, arranged in approximate order of difficulty, are suggested: Koischwitz' *Bilderlesebuch*, Zeydel's *Elementary German Reader*, Storm's *Immensee*, Heyse's *L'Arrabbiata*, Gerstäcker's *Germelshausen*, Kästner, *Emil und die Detektive*, and Purin and Rose's *Deutsche Kulturkunde*. (2 UNITS.)

In the third year, 400 or more pages of prose and poetry from the works of standard authors should be read in class, 300 or more pages outside class. Emphasis should also be placed on a command of simple German in speech and in writing. The following are suitable texts: Freytag, *Die Journalisten*; Lessing, *Minna von Barnhelm*; Schiller, ballads, *Wilhelm Tell* and *Die Jungfrau von Orleans*; Goethe, some poems and *Hermann und Dorothea*; Heine, poems and *Die Harzreise*; Sudermann, *Frau Sorge*; Kästner, *Drei Männer im Schnee*; Bahr, *Das Konzert*. (1 UNIT.)

GREEK. A thorough knowledge of the common grammatical forms and elementary construction of Attic Greek; Xenophon's *Anabasis*, four books; the translation into Greek of simple sentences based on the *Anabasis*, and the translation into English of a previously unseen passage from some work of Xenophon. (2 UNITS.)

Homer's *Iliad*, three books; the translation of a previously unseen passage, which presents no great difficulties, from the Homeric poems; the Homeric metre, the simpler forms and constructions of the Homeric dialect, and a certain degree of familiarity with contents, literary character and background of the Homeric poems; the translation into prose Greek of a simple connected passage based on Book II of the *Anabasis*. The candidate may offer equivalents for the suggested readings. (1 UNIT.)

LATIN. There is no prescription either of the amount to be read or of particular authors. It is recommended, however, that the classical Latin

read in the last three years of the high school course or their equivalent be no less in amount than the following: Second year, *Cæsar, Gallic War*, Books I and II; Third year, Cicero, the first three orations *Against Catiline*, the oration *In Behalf of the Poet Archias*, and the oration *For the Manilian Law*; Fourth year, Virgil, *Aeneid*, about three thousand lines. The essential point is not the amount read but the command of vocabulary, forms and syntax which the entering student has actually acquired.

The examinations are of two types and all candidates may choose between them: Type I, (a) a passage or passages for translation into Latin; (b) passages of Latin prose and poetry for translation at sight. Type II, (a) a passage or passages for translation into Latin; (b) passages of Latin prose and poetry for translation at sight; (c) passages for translation taken from the following works, which are recommended as part of the high school reading: *Cæsar, Gallic War*, Book II; Cicero, the oration *In Behalf of the Poet Archias*, and the first oration *Against Catiline*; Virgil, *Aeneid*, Books IV and VI.

Examinations of both types contain questions on subject-matter, literary and historical allusions, and prosody, as well as on forms and syntax.

Examinations may be taken for 2 UNITS, 3 UNITS or 4 UNITS credit.

SPANISH. A year's study of Spanish should assure a knowledge of the elements of the grammar, ability to pronounce accurately, to translate easy Spanish prose, and to turn into Spanish simple English sentences. About 100 duodecimo pages should be read, and careful drill given in Castilian pronunciation. The student should have learned the conjugations of the regular, radical-changing and the more common irregular verbs. In the second year the work should include the reading of about 200 to 300 pages of Spanish of average difficulty, mastery of the grammar and syntax, with frequent exercises in composition. The student should complete his knowledge of the radical changing and irregular verbs with the exception of rare verbs and forms. Suitable texts are: Juan Valera, *El pájaro verde*; Pérez Escrich, *Fortuna*; Ramos Carrión Vital Aza, *Zaragüeta*; Palacio Valdés, *José*; Pedro de Alarcón, *El Capitán Veneno*; de Alarcón, or Antonio de Trueba, selected short stories.

Throughout the course dictation should be employed to accustom the ear to the sounds of spoken Spanish. From time to time abstracts and paraphrases may be made in Spanish of portions of the works read. Where possible, elementary conversational exercises are desirable. During the two years regular practice in pronunciation should not be neglected. (2 UNITS.)

HISTORY

Each unit allowed for entrance in History presupposes one year of formal study in the particular subject, using a standard text. It is expected that appropriate selections which give the student some acquaintance with sources and contribute to the historical background, shall have been read. There should be instruction in comparing historical characters, institutions, periods, and events and in tracing the steps in the development of important movements through a considerable period of time. Practice should be given in locating places, areas, boundaries and routes which are historically important.

One-half or one unit may be presented in any of the following subjects: Ancient History, European History, English History, and American History.

ANCIENT HISTORY. The course should devote one-half of the year to the study of the ancient Orient and Greece as far as the death of Alexander and the break-up of his empire, with the expansion of Greek culture in the Mediterranean World. The second half-year should be devoted to the study of the history of Rome to the year 476 A. D.

Since not more than one-tenth of the whole time available can be allotted to the study of the history of the Orient, only so much of its narrative history should be studied as will hold the story together and fix its geography and its time relations. Emphasis should be laid not upon the details of military and political history but upon the civilization developed by the different peoples of the Orient, with particular reference to the contributions which they made to later ages.

In the study of Greek history, little time should be spent on the period prior to the Persian Wars, except to deal concretely with Homeric society and to emphasize the expansion of Hellas. From the Persian Wars to the death of Alexander the study should be exact and thorough, with special reference to the political, intellectual, and artistic development of Hellas during the Age of Pericles. Instead of trying to trace the constitutional development of Athens and Sparta from the beginning, the operation of the government in these states at the time of their maturity should be mastered.

In the period following the death of Alexander no attempt should be made to follow the intricate political history of the time, but opportunity should be found to study the federal government of Greece, and the philosophy, literature, art, and religious cults which were the factors of the mixed Graeco-Oriental culture of which Rome became the heir.

At the beginning of the second half-year the history of Rome to about the year 300 B. C. should be covered very rapidly. The attempt should

be made rather to understand the organization and working of Senatorial government in the third and second centuries B. C. than to trace the changes made in Roman institutions in the fifth and fourth centuries. From 300 B. C. to the death of Marcus Aurelius the study must be relatively detailed and thorough. ($\frac{1}{2}$ OR 1 UNIT.)

EUROPEAN HISTORY. Students who are offering Modern European history should emphasize the absolute monarchy of Louis XIV, colonial expansion and rivalries, the development of the constitutional monarchy in England, the enlightened despotism of Frederick the Great, the republican government of Revolutionary France, the Napoleonic epoch, and the main facts in the political development of Europe since 1815. Special emphasis should be laid upon the industrial Revolution—its political and social aspects—upon the growth of nationalism and democracy, and upon the economic expansion of the European possessions outside of Europe. The study of the last half-century should include some account of the great material changes, important inventions, and intellectual and social and humanitarian movements.

Students who are offering Medieval and Modern European history should emphasize the contributions of the Roman Empire, the Germans, and the Christian Church to medieval civilization. The structure of feudal society, the Crusades, the formation of the European states, the several phases of the Renaissance and of the Reformation, and the discoveries outside of Europe should be covered. Students who are offering this subject will not be held to so detailed a knowledge of the nineteenth century as those offering Modern European history. ($\frac{1}{2}$ OR 1 UNIT.)

ENGLISH HISTORY. The division of the work between the two half-years should be made at about 1660.

During the first half-year, the periods of the Tudors and the early Stuarts should receive emphasis. Only the briefest reference to the period before 1066 need be made, and from the Norman Conquest to the accession of the Tudors the treatment should be topical rather than exhaustive. It should deal with the effects of the Norman Conquest, relations with France, Scotland, and Ireland, Magna Carta and the origins of Parliament, and the emergence of parliamentary government out of the feudal monarchy. Some attempt also should be made to explain the development and character of the Christian Church in England, its relations with the papacy, the severance of these relations, the establishment of the national church, and the Puritan movement.

In the second half-year, starting with the Restoration, attention should be given first to the continued struggle between Crown and Parliament, culminating in the establishment of responsible government. In study-

ing the great wars with France, attention should be directed to the commercial and colonial expansion in America and the East. With regard to imperial policy, the causes and effects of the Scottish and Irish unions and the revolt of the American colonies should be explained. The study of the revolution in agriculture, industry, and transportation should include some consideration of the consequent political and social reforms. Since the Reform Act of 1867, emphasis should be laid upon the more important reforms affecting economic, political, and social life, and upon the problem of Ireland. Some idea should be given of the growth and nature of the British power in the colonies and the problem of imperial organization.

In general, it is desirable to emphasize the important epochs and movements rather than the reigns of the monarchs; to trace developments; to secure a clear comprehension of the more influential personalities; and to show the relations of English history to the history of other countries, especially the United States. ($\frac{1}{2}$ OR 1 UNIT.)

AMERICAN HISTORY. The period of American history prior to 1763 may be treated briefly as a background for subsequent epochs. The period since the Civil War should receive adequate attention (about as much time as the period between 1763 and 1865). Questions on current events will not be asked.

For the guidance of both the teacher and the student, it is suggested that careful attention should be paid to map studies; that the topics of slavery and secession should not be emphasized at the expense of the study of territorial expansion and social and industrial growth; that due attention should be paid to the policy of the United States in foreign affairs, tariff, banking, civil service, currency, trusts, conservation of natural resources, capital and labor, immigration, and other present-day problems; and that familiarity with the lives and public services of great Americans should be especially encouraged. ($\frac{1}{2}$ OR 1 UNIT.)

CIVIL GOVERNMENT. The candidate should have an accurate knowledge of government as described in such text-books as *Essentials of American Government* by Mathews, *The Citizen and the Republic* by Woodburn and Moran, *Government in the United States* by Garner, and *Social Civics* by Munro and Ozanne. Emphasis is placed on governmental organization and functions, but the candidate must also be familiar with the social, economic, and historical factors which affect the duties and activities of citizens. ($\frac{1}{2}$ OR 1 UNIT.)

MATHEMATICS

ALGEBRA TO QUADRATICS. The examination will presuppose a knowledge of the meaning, use, evaluation, transformation and derivation of formulas;

the construction and interpretation of graphs, the meaning and use of negative numbers; solution of simple and simultaneous linear equations, with verification; ratio, proportion, and variation; the essentials of algebraic technique; exponents and radicals; numerical trigonometry. (1 UNIT.)

INTERMEDIATE ALGEBRA. The topics should include numerical and literal quadratic equations; the binomial theorem for positive integral exponents, with applications; arithmetic and geometric series; simultaneous linear equations in three unknown quantities; simultaneous quadratic equations, with graphs; exponents and radicals; logarithms. ($\frac{1}{2}$ OR 1 UNIT.)

ADVANCED ALGEBRA. The topics of advanced algebra should include permutations and combinations; complex numbers with graphical representation of sums and differences; simple determinants, including the use of minors and solution of linear equations; numerical equations of higher degree, and elementary aspects of the theory of equations including the remainder theorem and its applications, coefficients as symmetric functions of roots, condition for rational roots, conjugate complex roots of equations with real coefficients, Descartes's Rule of Signs, and simple transformations; graphical location and determination of roots to two or three significant figures. ($\frac{1}{2}$ UNIT.)

PLANE GEOMETRY. The usual theorems and constructions of good textbooks, including the general properties of plane rectilinear figures; the circle and the 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 mensuration of lines and plane surfaces. The aim of the instruction should be the formation of the habit of clear and concise expression, and to this end the classroom work should be largely oral. (1 UNIT.)

SOLID GEOMETRY. The usual theorems and constructions of good textbooks, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders and cones; the sphere and the spherical triangle. The solution of numerous original exercises including loci problems. Applications to the mensuration of surfaces and solids. ($\frac{1}{2}$ UNIT.)

TRIGONOMETRY. The topics should include definitions of the six trigonometric functions of angles of any magnitude as ratios; circular measurements of angles. Proofs of principal formulas, in particular, for the sine, cosine and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of simple

trigonometric equations. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications. ($\frac{1}{2}$ UNIT.)

SCIENCES

BOTANY. Elementary work in the structure and physiology of seed plants together with an introduction to their classification as outlined in any recent textbook. Work on the lower groups of plants and histological studies, if undertaken at all, should be secondary. Individual laboratory work by the student is essential. Records of laboratory work with accurate drawings and precise description should be handed in at the time of the examination. ($\frac{1}{2}$ OR 1 UNIT.)

CHEMISTRY. The requirements should be the equivalent of a course based on one of the recognized secondary school texts.

Greater importance is attached to training in observation and to a knowledge of the properties of common chemical substances than to an understanding of purely theoretical conceptions.

An original, uncopied, laboratory notebook, containing any comments and corrections that may have been made by the instructor must be presented by the candidate at the time of the examination. (1 UNIT.)

PHYSICS. Preparation should include the study of a standard text-book, instruction by lecture-table demonstration and individual laboratory work.

The classroom and lecture instruction should aim to give the student a clear and comprehensive view of the general principles of the subject with their applications to various natural phenomena and to practical problems.

The laboratory work should fix these general principles in the student's mind and render them more concrete. The student should develop a habit of accurate observation and should understand the scientific method of basing theories and principles upon experiment. Emphasis should occasionally be placed on the accuracy of the measurements and on the reliability of the conclusions drawn from them.

Every candidate must present at the time of the examination, a notebook certified by the teacher and containing in the candidate's own language a description of the laboratory exercises with a careful and systematic record of observations made and of conclusions drawn. (1 UNIT.)

PHYSIOGRAPHY. The elements of Physiography or Physical Geography as presented in standard secondary school texts. The earth as a globe, the oceans, the atmosphere, the land. Individual laboratory work, including

field trips. The notebook should be presented at the time of examination. ($\frac{1}{2}$ OR 1 UNIT.)

PHYSIOLOGY AND HYGIENE. The elements of human Physiology and Hygiene, as included in standard secondary school texts. In addition to textbook work, laboratory exercises, such as dissections of animals and organs, and the use of models and charts are advised. Some study of tissues by the aid of the microscope is also valuable. Precise notes should be taken and accurate sketches made of objects observed in the laboratory work. These notes and sketches should be presented at the time of examination. ($\frac{1}{2}$ OR 1 UNIT.)

ZOOLOGY. Biology of animals, including study of the great groups, as represented by the following: Amoeba, Paramecium, sponge, Hydra, starfish, earthworm, crayfish, insect, clam, fish, frog, bird, mammal. The course should consist of laboratory study of at least eight of the above with notebooks containing original drawings, supplemented by a standard text book. The notebook and drawings should be submitted at the time of examination. ($\frac{1}{2}$ OR 1 UNIT.)

VOCATIONAL SUBJECTS

FREE-HAND DRAWING. The candidate should be able to sketch free-hand, with fair accuracy, simple geometrical figures and their combinations; to sketch from the object with reasonable facility and correctness, geometrical models, simple objects or parts of machines; to sketch from the copy, either enlarging or reducing, simple objects or plain details of machinery. Correctness of proportion, accuracy in the relations of parts of figures and neatness in the execution of the work should be secured. A fair knowledge of perspective and the application of light and shade in free-hand sketching is necessary.

At least twenty drawings representing a year's work in the preparatory school, should be submitted for the lower requirement in this subject, each bearing the certificate of the instructor in charge of the work. ($\frac{1}{2}$ OR 1 UNIT.)

MECHANICAL DRAWING. The candidate should always have a knowledge of the proper methods of using the T-square, triangles, and other drawing instruments, with special reference to their use in drawing parallel lines, erecting perpendiculars and in drawing arcs of circles and irregular curves.

The plates presented should include examples of geometric constructions, orthographic projections, isometric projection and working drawings of simple objects. It is not desirable that all plates be inked. ($\frac{1}{2}$ OR 1 UNIT.)

SHOPWORK. The candidate should present evidence of sufficient training to enable him to execute a piece of work with skill, accuracy and neatness in each of the branches offered for admission; should be acquainted with the materials used in the various classes of work and understand the physical properties of these materials; should have a good working knowledge of the tools and machines of the different branches of shopwork and understand their care and operation. It is especially necessary that he should have a thorough understanding of the process used and the principles involved in all of the work that he does.

In woodworking, forge work and foundry work one year's time is required in preparation for each subject, and in machine shopwork two years' time.

A detailed statement of the work done must be presented, signed by the school instructor or shop superintendent. ($\frac{1}{2}$ OR 1 UNIT.)

STENOGRAPHY. Speed and accuracy are the tests of the candidate's preparation in this topic. A speed of sixty words per minute is required. ($\frac{1}{2}$ OR 1 UNIT.)

COMMERCIAL SUBJECTS. A limited amount of credit is allowed in certain cases, for high school courses in commercial subjects. ($\frac{1}{2}$ TO 2 UNITS.)

AGRICULTURE. The requirements are those established by (a) the State Board of Education for approved courses in schools not receiving the benefit of Federal appropriations under the Smith-Hughes or George-Deen Acts; or (b) by the State Board of Vocational Education for approved courses in schools receiving the benefit of Federal appropriations under the Smith-Hughes or George-Deen Acts. A half unit of credit may be accorded upon the completion of each year of the former course which year comprises three double and one single period per week throughout the year, together with an acceptably executed program of supervised practice work. ($\frac{1}{2}$ TO 2 UNITS.)

From 1 to $1\frac{1}{2}$ units credit may be accorded for the completion of each year of the Federal aid course, which year comprises five double periods per week throughout the year together with an efficiently planned, executed and accounted six-months' program of supervised practice. In no case can more than four units be used for college entrance and this maximum only in the College of Agriculture. The report of the State Supervisor of Agricultural Education will be considered in determining the exact amount of credit in each case. (1 TO 4 UNITS.)

HOME ECONOMICS. The requirements are set forth in the "Course of Study in Home Economics" issued by the State Board of Education and apply to all approved courses whether or not the schools receive the benefit of Federal appropriations under the Smith-Hughes or George-Deen

Acts. A half unit of credit may be accorded upon the completion of a course comprising a minimum of one single and three double weekly periods per year; one unit upon the completion of a course comprising a minimum of five double weekly periods per year. Advanced work completed in a Federal aid course consisting of lecture and laboratory work may be accepted for an additional unit in the College of Agriculture. The report of the State Supervisor of Home Economics Education will be considered in determining the exact amount of credit in each case. ($\frac{1}{2}$ TO 2 UNITS.)

SPECIAL AND UNCLASSIFIED STUDENTS

Under the usual entrance requirements of the University, persons of suitable age and attainment, by the payment of specified fees, may pursue certain studies in connection with the regular college classes, either as special or as unclassified students. However, it should be clearly understood that this privilege will not be extended to students who are disqualified for admission to one of the regular curricula, since it is intended primarily for those whose previous study and attainments enable them to pursue with profit special courses of study in particular departments. Special students will be registered and enrolled in the same manner as regular students, and from the time of their admission will be subject to all regulations of the University. Credit for courses completed as a special or unclassified student may be counted toward a degree when special arrangements are made.

The tuition charge is ten dollars (\$10.00) per semester hour, the usual laboratory and breakage fees being additional. Special students are not eligible to hold University scholarships.

ADMISSION TO ADVANCED STANDING

Applicants for advanced standing presenting credentials from another recognized university or college may be accepted without examination by transfer of credits. A certified statement of all entrance and college work must be presented together with a letter of honorable dismissal. Admission of students having low scholastic records will not be considered and those who are dropped from other institutions will not be enrolled in the University.

Students who apply for transfer from institutions not fully recognized, but who are otherwise acceptable, will be referred to the heads of University departments concerned. By interview or, if necessary, advanced standing examination, the placement of the student in University courses is determined. This credit is provisional, pending the completion of a year of satisfactory college work.

Students who wish advanced standing will not be admitted under conditions more favorable than could be obtained at the institution from which transfer is sought. As it is the general policy of the University not to admit students by transfer, no applicant can be accepted unless his scholastic record is high and personal reasons are presented that fully justify the proposed change.

PRELIMINARY REGISTRATION PROGRAM

The three days immediately preceding the opening of class work are devoted to certain preliminary events designed to facilitate the adjustment of freshmen to conditions of life and study at college. Freshmen are, therefore, required to register at the Gymnasium at 9 o'clock, Tuesday morning, and to attend a series of meetings and conferences scheduled for Tuesday, Wednesday and Thursday of the opening week of the University year. The full schedule of events is given in a special circular, "*Program of Preliminary Freshman Days*," which is sent to all prospective freshmen by the Registrar.

All new students are given a standard intelligence test at the opening of the college year. Freshmen also take a silent reading test and analysis of work interest test. The scores are used in advising students regarding the course of study to pursue, and vocational plans. Personal data, physical examination and placement tests are also included in the program.

ENROLLMENT

Every student is required to register and enroll on the designated days. Enrollment for the second semester occurs on Saturday before the first day of that semester. A receipt from the Comptroller showing that tuition charges for the ensuing half-year have been paid, must be presented before enrollment can be completed. Directions for enrollment are published for each semester.

After enrollment, no change of studies will be allowed except such as are authorized by the Dean of the college of the University in which the student is registered. After two weeks from the beginning of the semester no enrollment or change of studies will be permitted.

THE COLLEGE OF MEDICINE

PRE-MEDICAL PREPARATION

All students who expect to apply for admission to the College of Medicine are advised to complete a four year curriculum in the College of Arts and Sciences and earn a bachelor's degree. Such preparation receives preference if the work completed includes all the courses shown in the Pre-Medical curriculum offered in the College of Arts and Sciences.

The minimum preparation is three years liberal arts work as outlined in the Pre-Medical curriculum of the College of Arts and Sciences (see index). This curriculum leads to a bachelor's degree after the completion of the first year in any approved Medical School. In Chemistry it includes, Inorganic and Organic, Qualitative and Quantitative analysis, and Physical Chemistry. It prescribes, general laboratory courses in Botany and Zoology, Embryology, Cytology and Physics, as well as other non-Science courses. All the courses in this curriculum will be required of all students who enter the College of Medicine in September 1941 and thereafter.

As pre-medical and medical work have been correlated in the University, students who prepare at other institutions are advised to select courses which correspond with the subjects of the three-year pre-medical curriculum offered here.

SELECTIVE ADMISSION PROCEDURE

Since enrollment in the first year class of the College of Medicine must be limited to approximately thirty students, the full responsibility for the selection of these students has been delegated to a Medical Admissions Committee.

Because of an appropriation to the College of Medicine by the State of Vermont, the applications of residents of this State are given preference. After qualified Vermont students have been registered, the applications of sons and daughters of the graduates of the University of Vermont are considered. If vacancies should remain after these two groups have been examined, the quota will be filled from the best qualified applications of non-residents.

The eligibility of an applicant for enrollment in the first year class is finally determined by the Medical Admissions Committee. In its selections the Committee considers three factors:

1. The quality and quantity of the pre-medical training.
2. The score received in the Medical Aptitude Test which is given annually throughout the country under the auspices of the Association of American Medical Colleges.

3. The personality and general fitness of the applicant for the study of medicine, as determined, in part, by personal interview of the applicant with the Medical Admissions Committee. The Committee will not interview students with unsatisfactory scholastic records or a low score in the Aptitude Test.

Application should be made not later than March 1 of the year in which admission is sought. Students having low scholastic records are advised not to apply.

ADVANCED STANDING

In general, vacancies arising in the three upper classes will not be filled. In its discretion, however, the Medical Admissions Committee may entertain applications of well qualified residents of this State who have done medical work in other acceptable medical schools. No applicant for advanced standing will be enrolled under more favorable conditions than would obtain if the student were to continue at the school first attended. All applications from students having conditons or low scholastic records will be refused.

Courses of Instruction

The University offers instruction in four colleges:

The College of Arts and Sciences

The College of Engineering

The College of Agriculture

The College of Medicine

In all colleges, except Medicine, the undergraduate courses are numbered from 0 to 99; those courses which may be taken for undergraduate or graduate credit are numbered from 100 to 199. Courses offered for graduate credit only are numbered from 200 to 299. The courses in Elementary Education are numbered from 300 to 399. The courses in Elementary and Industrial Education are offered by the Department of Education.

Following the description of each course the number of semester hours credit is indicated. For full year courses this credit must be doubled. Courses that are required are indicated and when elective the classifications and prerequisites are given. Rotating and alternating courses show the college year during which these courses are to be given. Lecture and recitation periods are fifty minutes, laboratory periods at least 110 minutes in length. A key to the abbreviations used follows:

KEY TO ABBREVIATIONS

Ag., Agriculture.
Agl. Econ., Agricultural Economics.
Bus., Business Curriculum.
C. E., Civil Engineering.
Ch., Chemistry.
Cl., Classical.
C. T., Commercial Teaching Option.
D. M., Dairy Manufactures.
D. P., Dairy Production.
Ed., Education.
E. E., Electrical Engineering.
El. Ed., Elementary Education.
Eng., Engineering.
G. S., General Science.

H. E., Home Economics.
Ind. Ed., Industrial Education.
L. S., Literary-Scientific.
M. E., Mechanical Engineering.
Med., Medical.
Mus. Ed., Music Education
P. I., Plant Industry.
Pr. Med., Pre-Medical.
Sec., Secretarial Option.
S. Ed., Secondary Education.
Sp., Special.
S. S., Social Science.
Tch. Ag., Teaching of Agriculture.

The College of Arts and Sciences

ART

HISTORY OF ART

1. GREEK ART. A general survey of the history of art in Greek lands from the earliest times through the Graeco-Roman period, with special emphasis on the development of sculpture and architecture. Some attention is given also to the minor arts, especially vase-painting. The purpose of the course is to help the student understand the meaning of art and to appreciate some of the masterpieces. *Two hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. THIS COURSE IS NORMALLY FOLLOWED BY HISTORY OF ART 3, BUT EITHER COURSE MAY BE TAKEN SEPARATELY.

Professor Kidder

2. A STUDY OF MODERN ART. The purpose of this course is to familiarize students with the modern and contemporary artists and to give them standards whereby they may judge the quality of any work of art. The Carnegie Collection of two thousand rare books and prints is extensively used in the course. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Mrs. Mills

3. EUROPEAN PAINTING. A general survey of painting in Europe from 1400 to 1800. Attention is concentrated on the works of important painters and on the broader features of the historical background. Among other topics treated are museums and their functions, and the ways in which paintings are reproduced for study or for enjoyment in the home. *Two hours, second semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. SEE ALSO HISTORY OF ART 1.

Professor Prindle

APPLIED ART

1. ELEMENTARY APPLIED ART. A study of the principles of design as applied in the making of objects of use and beauty. Some of the processes included are stencilling, block-printing, textile painting, tooled leather, gesso, color-printing and batik. Studio Fee \$1.00 per semester. *Two hours credit given if taken in conjunction with History of Art 1 or 2.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
2. INTERMEDIATE APPLIED ART. A second course in the study of the principles of color and design with instruction in the more difficult technical processes involved in their application to materials. Studio

Fee \$1.00 per semester. *Two hours credit given if taken in conjunction with History of Art 1 or 2.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Colburn and Mrs. Mills

FREE-HAND DRAWING AND PAINTING

1. FREE-HAND DRAWING. Sketching from the human figure in charcoal, brush and crayon. The principles of free-hand perspective are taught through outdoor sketching in landscape compositions. Studio Fee \$1.00 per semester. *Two hours.* ELECTIVE.
2. DRAWING AND PAINTING. Advanced course in drawing and painting, requiring more difficult principles and techniques, using oils and water colors. Studio Fee \$1.00 per semester. *Two hours.* ELECTIVE.
Professor Colburn

ART EDUCATION

For courses in Art Education refer to the Index.

*BOTANY

Professors Burns, Lutman, Dole, Adams and Gershoy; Miss Stone, Dr. Marvin, Messrs. Dodd and Ratledge

1. PRE-MEDICAL BOTANY. A course in elementary Botany particularly adapted to the requirements of pre-medical students. Problems of evolution, heredity, structure and functions of plant organs are included. This course is followed by Zoology 1. Laboratory Fee \$2.50 per semester. *Four hours, first semester.* REQUIRED (PR. MED.) FRESHMEN.
Professor Burns, Dr. Marvin, Messrs. Dodd and Ratledge
2. ELEMENTARY BOTANY. A general introductory course dealing with problems of plant adjustment to environment. Laboratory Fee \$2.50 per semester. *Four hours.* ELECTIVE TO ALL CLASSES.
 Section A. *Miss Stone*
 Section B. *Professor Dole*
 Section C. *Mr. Dodd*
4. PLANT PHYSIOLOGY. An experimental study of the nutrition of higher plants, problems of irritability and response. Field, greenhouse and laboratory with lectures and readings. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (P. I.). ELECTIVE.
 PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY. *Professor Burns*
6. PLANT MORPHOLOGY. A study of plant types, representative of each of the larger phylogenetic groups. Special emphasis is placed

* For other courses in Botany refer to the Index.

on the evolutionary development of vegetative and reproductive structures. Adaptation of the plant to its environment, life cycles, and an introduction to the phylogenetic system of classification. Laboratory Fee \$2.50 per semester. *Three hours.* ELECTIVE. PREREQUISITE: BOTANY 2 OR 3. *Professor Dole*

7. EMBRYOLOGY OF SEED PLANTS. Special emphasis is placed on morphogenesis, reproduction and heredity. A brief examination is made of the diverse types of the spermatophytes. Laboratory, field work and lectures. Laboratory Fee \$2.50. *Three hours, second semester.* ELECTIVE. PREREQUISITES: BOTANY 2 OR 3 AND 10.

Professor Gershoy

8. CYTOLOGY. This course includes the technique involved in the preparation of permanent slides for microscopic study and the detailed study of cell contents and cell processes; vegetative and reductive mitotic divisions; the development of the embryo-sac, etc. Laboratory Fee \$10.00. *Four hours, second semester.* REQUIRED (PR. MED.). PREREQUISITES: BOTANY 1 OR 2 AND ZOOLOGY 1 OR 2. *Professor Gershoy, Mr. Dodd*

9. ECOLOGY. A study of the physiological factors of habitats and their effect in plant structure and distribution. Laboratory, field work and lectures. Laboratory Fee \$2.50. *Three hours, second semester.* ELECTIVE BY PERMISSION. *Professor Burns*

10. PLANT PATHOLOGY. A course dealing with the healthy plant, conditions producing disease, insect-produced diseases, bacteria and fungi, fungicides and their action. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (P. I.) SENIORS. ELECTIVE TO OTHERS.

11. GENERAL MICROBIOLOGY. A study of bacteria in soil, water and air; morphology, classification and requirements. Laboratory Fee \$5.00. *Four hours, first semester.* REQUIRED (AG.) SOPHOMORES. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY.

12. GENERAL BACTERIOLOGY. A lecture and laboratory course covering the principles and technique of growing and studying bacteria. Recommended especially to General Science and Pre-Medical students. Laboratory Fee \$5.00. *Three hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY. *Professor Lutman*

13. HOUSEHOLD MICROBIOLOGY. A course dealing with bacteria, yeast and molds and their relation to home sanitation and to food preservation. Laboratory Fee \$5.00. *Three hours, first semester.* RE-

QUIRED (H. E.) JUNIORS. PREREQUISITE: AN ELEMENTARY COURSE IN BOTANY. *Miss Stone.*

14. EDUCATIONAL BIOLOGY. An elementary course dealing with the anatomy, physiology and development of plants. Field trips during the fall and spring to study the native flora and habitat groups. Sample plants collected and mounted by each student. Laboratory Fee for this part of the course \$2.00 per semester. *One lecture and one laboratory supplementing Zoology 14.* OPEN TO EDUCATION STUDENTS ONLY. *Professor Adams*
108. CURRENT LITERATURE IN BOTANY. A review of important papers and books. *One hour.* ELECTIVE TO JUNIORS AND SENIORS.
109. SPECIAL INVESTIGATION. Hours to be arranged. Laboratory Fee \$5.00 per semester. *Number of hours to be arranged.* ELECTIVE TO SENIORS BY PERMISSION. *Professors Burns and Lutman*
115. ADVANCED SYSTEMATIC BOTANY. *Three hours.* ELECTIVE BY PERMISSION. *Professor Dole*

*CHEMISTRY

Professors Burrows, Kern, Braun, Willmarth, Lineken, Crooks; Mr. †Lucarini, Miss Brown, Dr. Nichols, Miss Aitken.

1. GENERAL CHEMISTRY. A course in Inorganic Chemistry for students presenting acceptable entrance credit. It consists of lectures, recitations and laboratory work. The laboratory work includes general experiments and elementary qualitative analysis. Laboratory Fee \$7.50 per semester. *Four hours, first semester and five hours, second semester.* ALTERNATE REQUIREMENT WITH CHEMISTRY 21 FOR (ENG., G. S. AND PR. MED.) FRESHMEN. ELECTIVE TO OTHERS. *Five hours, both semesters.* REQUIRED (CH.) FRESHMEN. PREREQUISITE: ENTRANCE CREDIT IN CHEMISTRY.
Professors Lineken, Burrows, Braun, Crooks; Mr. Lucarini, Miss Brown, Dr. Nichols and Miss Aitken
2. QUALITATIVE ANALYSIS. This course includes laboratory and classroom work. Laboratory Fee \$2.50. *Four hours, first semester.* REQUIRED (CH.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.
3. ELEMENTARY QUANTITATIVE ANALYSIS. An introductory course including laboratory and classroom work. Laboratory Fee \$5.00.

* For other courses in Chemistry refer to the Index.

† Absent on leave.

Four hours, second semester. REQUIRED (CH., PR.MED.) SOPHOMORES.
ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.

4. ADVANCED QUANTITATIVE ANALYSIS. A course comprising lectures and laboratory instruction with class meetings for discussion of methods. Laboratory Fee \$5.00 per semester. *Three hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 AND 3. *Professor Kern*
7. PHYSICAL CHEMISTRY. This course is offered to students preparing for medicine or majoring in the biological sciences. The instruction consists of lectures, recitations and demonstrations. *Three hours, first semester.* ELECTIVE. PREREQUISITES: CHEMISTRY 1 OR 21 AND PHYSICS 1. *Professor Burrows*
8. ENGINEERING AND INDUSTRIAL CHEMISTRY. A course consisting of lectures, recitations, and occasional excursions to manufacturing establishments. *Three hours.* REQUIRED (CH.) SENIORS. ELECTIVE TO OTHERS BY SPECIAL PERMISSION. *Professor Lineken*
9. ELEMENTARY ORGANIC CHEMISTRY. A course consisting of lectures and recitations adapted to pre-medical students. *Two hours.* REQUIRED (PR. MED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.
10. ELEMENTARY ORGANIC CHEMISTRY. A laboratory course recommended for pre-medical preparation and correlated with Chemistry 9. Laboratory Fee \$5.00 per semester. *One hour.* REQUIRED (PR. MED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21. *Professor Braun; Dr. Nichols*
21. INTRODUCTORY GENERAL CHEMISTRY. A course in general chemistry offered for students who present no credit in entrance chemistry. The instruction includes lectures, recitations and laboratory work. Laboratory Fee \$7.50 per semester. *Four hours, first semester and five hours, second semester.* ALTERNATE REQUIREMENT WITH CHEMISTRY 1 FOR (ENG., G. S. AND PR. MED.) FRESHMEN. ELECTIVE TO OTHERS.
*Professors Lineken, Burrows, Braun and Crooks;
Mr. Lucarini, Miss Brown and Dr. Nichols*
22. GENERAL INORGANIC CHEMISTRY. This course includes work in lectures, recitations and laboratory. It is adapted to students enrolled in the Home Economics curriculum. Laboratory Fee \$7.50 per semester. *Five hours.* REQUIRED (H. E.) FRESHMEN. NOT OPEN TO OTHERS. *Professor Willmarth; Miss Brown*

23. GENERAL INORGANIC CHEMISTRY. This course includes instruction by lectures, recitations and laboratory. It is adapted to students enrolled in curricula in Agriculture. Laboratory Fee \$7.50 per semester. *Four hours.* REQUIRED (AG.), FRESHMEN. NOT OPEN TO OTHERS. *Professor Crooks*
104. PHYSICAL CHEMISTRY. This course consists of lectures, recitations and problem work. *Three hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 OR 21 AND PHYSICS 1. *Professor Burrows*
105. PHYSICAL CHEMISTRY. This laboratory course is recommended to students who enroll in Chemistry 104. Laboratory Fee \$2.50 per semester. *Two hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 OR 21 AND PHYSICS 1.
106. THERMODYNAMICS. Lectures. *Two hours, second semester.* ELECTIVE. *Professor Burrows*
111. ADVANCED ORGANIC CHEMISTRY. A lecture course with discussions of the modern theories of organic chemistry and their applications. Current journals and books on organic chemistry are used as works of reference. *Three hours.* REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION.
112. ADVANCED ORGANIC CHEMISTRY. An advanced laboratory course including the preparation, analysis, and general study of organic compounds. Laboratory Fee \$10.00 per semester. *Six hours.* REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION. *Professor Braun*

CLASSICAL LANGUAGES

Professors Prindle, Kidder and Pooley; Dr. Benedict

GREEK

- A. BEGINNERS' GREEK. This course is intended not only for those who wish to continue the study of Greek but also for any who desire a slight acquaintance with the language. It should serve as a preparation for college Greek 1. *Four hours.* REQUIRED (CL.) FRESHMEN UNLESS AT LEAST TWO YEARS OF GREEK ARE PRESENTED FOR ADMISSION. ELECTIVE TO OTHERS. *Professor Pooley*
1. PLATO AND HOMER. The works usually read are Plato's *Apology* and selections from other dialogues, as well as selections from the *Iliad* and *Odyssey* of Homer. *Three hours.* REQUIRED (CL.). PREREQUISITE: GREEK A OR THE EQUIVALENT.

2. GREEK DRAMA. The course includes the reading of three plays of Sophocles, Euripides, and Aristophanes, and lectures on the Greek theatre and on the origin, evolution, and history of Attic tragedy and comedy. *Three hours*. REQUIRED OF ALL CLASSICAL STUDENTS WHO DO NOT ELECT LATIN 2. PREREQUISITE: GREEK 1.
3. GREEK LITERATURE IN TRANSLATION. Lectures on the development of Greek literature, its most important branches, and its chief authors (aside from the drama, for which see Greek 5). Assigned readings in standard translations from some of the more important writers. *Two hours, first semester*. ELECTIVE TO JUNIORS AND SENIORS. NO KNOWLEDGE OF GREEK IS REQUIRED.
5. GREEK DRAMA IN TRANSLATION. The class reads one play by each of the poets, Aeschylus, Sophocles, Euripides, and Aristophanes. The literary art of each poet and the structure and meaning of each play are discussed, with reference both to the ancient theory of dramatic art and to the influence of Greek tragedy and comedy on modern literature and drama. *One hour, second semester*. ELECTIVE TO JUNIORS AND SENIORS. NO KNOWLEDGE OF GREEK IS REQUIRED.
8. BIBLICAL GREEK. The course includes selections from the *Gospels* according to Mark and according to John, the *Acts of the Apostles*, the *Apocalypse*, and some of the *Pauline Epistles*. *Three hours*. ELECTIVE. PREREQUISITE: GREEK 1.
106. ADVANCED READING COURSE. The course normally includes selections from Plato's *Republic* and Aristotle's *Nicomachean Ethics*. Other authors may be chosen, according to the needs and interests of the class. *Three hours*. ELECTIVE. PREREQUISITE: GREEK 2 OR 8.
107. ADVANCED PROSE COMPOSITION. *One hour*. ELECTIVE BY PERMISSION.
109. ADVANCED READING COURSE. The course normally includes selections from the works of Herodotus and Thucydides, with attention to the development of historiography. Other authors may be chosen, according to the needs and interests of the class. *Three hours*. ELECTIVE. PREREQUISITE: GREEK 2 OR 8. *Professor Kidder*

LATIN

1. LATIN PROSE AND POETRY. The works usually read are: Selections from Livy or Cicero; Virgil, *Eclogues*; Plautus or Terence, one play. *Three hours*. REQUIRED (CL., L. S.) FRESHMEN OR SOPHOMORES.

ELECTIVE TO OTHERS WHO HAVE PRESENTED FOUR YEARS OF LATIN FOR ENTRANCE OR HAVE COMPLETED LATIN B.

2. HORACE, CATULLUS, AND PLINY. The works usually read are: Horace, *Odes* and *Epodes*; selections from the poems of Catullus and the letters of Pliny. *Three hours*. ELECTIVE. PREREQUISITE: LATIN 1.
- *11. CLASSICAL MYTHOLOGY. The course treats the more important ancient myths and their influence on English literature and on art. The work consists of lectures, assigned readings, short papers, and recitations. *Two hours*. ELECTIVE TO SOPHOMORES, JUNIORS, AND SENIORS WHO HAVE SOME CLASSICAL BACKGROUND. (Offered in alternate years, 1940-1941.) *Professor Prindle*
- *14. THE TEACHING OF LATIN. The course is conducted by means of lectures, discussions, outside readings, and papers. Among the subjects discussed are the place of Latin in the curriculum, the aims of Latin teaching, ways of studying vocabulary, syntax, and derivatives, and the selection and use of textbooks and illustrative material. *Three hours, second semester*. REQUIRED OF ALL STUDENTS WHO WISH TO BE RECOMMENDED TO TEACH LATIN. ELECTIVE TO SENIORS. PREREQUISITE: LATIN 2. *Professor Kidder*
- *16. THE LATIN AND GREEK ELEMENTS IN THE ENGLISH VOCABULARY. Among the topics treated are dictionaries and their use, the Indo-European family of languages, a sketch of the history of the English language, word formation, the ways in which Latin and Greek words have come into English, and the respective places of the Classical and Anglo-Saxon elements in the English vocabulary. *Two hours*. ELECTIVE TO SOPHOMORES, JUNIORS, AND SENIORS. SOME KNOWLEDGE OF LATIN IS REQUIRED. (Offered in alternate years, 1941-1942.) *Professor Prindle*
104. TACITUS. A reading of selections and a study of Tacitus as an historian and as a literary artist. *Three hours, first semester*. ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1941-1942.)
- *105. CICERO. Selections, chiefly from the *Orations* and the *Letters*, are studied in detail. Attention is given to the position of Cicero in the political and literary history of his age. *Three hours, second semester*. ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1940-1941.) *Professor Pooley*

* See footnote on page 135.

106. VIRGIL. The whole of the *Aeneid* is read in the original or in translation. The poem is considered with reference to its structure, its literary qualities, and its position in the literature of Rome and of the world. *Three hours, second semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1941-1942.)
Professor Prindle
- *107. ROMAN ELEGY. Reading of selections from Tibullus, Ovid, and Propertius and consideration of the development of the elegy. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1940-1941.)
Professor Kidder
108. ROMAN PHILOSOPHY. Selections from the *De Rerum Natura* of Lucretius and from the *Georgics* of Virgil are studied in detail. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1941-1942.)
Professor Prindle
109. PROSE COMPOSITION. Advanced course. *Two hours, first semester.* REQUIRED OF ALL STUDENTS WHO WISH TO BE RECOMMENDED TO TEACH LATIN. ELECTIVE TO OTHERS. PREREQUISITE: LATIN 2.
Professor Pooley
- *112. OVID. Selections from the *Metamorphoses* are studied in detail. Rapid reading from other works of Ovid. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered in alternate years, 1940-1941.)
Professor Prindle

PREPARATORY COURSES IN LATIN

LATIN A. Preparatory Latin recognized as equivalent to two units of entrance credit. *Three hours.* Doctor Benedict

LATIN B. Preparatory Latin recognized as equivalent to the second two units of entrance credit. *Three hours.* Doctor Benedict

Enrollment in these two courses is governed by the following regulations: Students who present no Latin for entrance may receive six hours of credit toward the Bachelor's degree for each of the two preparatory

* In 1940-1941 Latin 11 will be offered as a three-hour course the second semester; Latin 105 will be offered the first semester and Latin 107 and 112, the second semester. Either Latin 11, Latin 14, or Latin 16 may be counted toward a major in Latin if one advanced reading course is also taken. Either Latin 11 or Latin 16 may be counted toward a major in English or in Greek. Latin 14 may be counted as a half-course in Education if taken in conjunction with Education 1, 5, 7, and 8.

courses upon completion of Latin 1. Similarly, upon completion of Latin 1, students who present two years of Latin for entrance may receive six hours of credit for Latin B, and those who present three years of Latin for entrance, three hours of credit. Either course may be taken by those who desire additional preparation, but college credit will not be given if the equivalent in entrance credit has already been allowed. Latin A and Latin B do not count toward a major or minor in Latin. Students in the Social Science curriculum who do not present two years of Latin for entrance must remove the condition by completing Latin A, without credit toward the degree.

ECONOMICS

*Professors *Groat, Briggs, Woodard, Willis, Nulty, Davis and Pond; Miss Morgan and Mr. Maclay*

1. **ELEMENTARY ECONOMICS.** An introductory course covering the elements of the subject. *Three hours.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Pond and Mr. Maclay

2. **MONEY AND BANKING.** An analysis of the various types of currency and the application of banking principles to foreign and domestic business. *Three hours.* REQUIRED (BUS., SEC.), JUNIORS; (C. T.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.

Professor Willis

3. **PUBLIC FINANCE AND TAXATION.** An introduction to the principles and problems of government spending, borrowing, and taxation. Special attention will be given to the particular methods and problems of taxation and the economic effects of government financing. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.

Professor Pond

4. **MARKETING AND ADVERTISING.** The marketing, wholesale and retail, of the products of agriculture and manufacture is described, with a discussion of the processes of buying, selling, speculation, and other marketing activities. Particular attention will be given, during the latter part of the course, to advertising and selling and the promotion and protection of the welfare of consumers. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS.

Professor Pond

5. **CORPORATION FINANCE AND INVESTMENTS.** A comparison of the various types of business enterprise and elaboration of the principles of financing large-scale industry followed by instruction in the

* Absent on leave, first semester 1939-1940.

methods of analyzing investments and of determining investment policies. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS. *Professor Willis*

6. ECONOMIC HISTORY OF ENGLAND. An outline of the development of English agriculture, commerce, industry and finance. *Three hours, first semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

7. ECONOMIC HISTORY OF THE UNITED STATES. An outline of the development of agriculture, manufactures, transportation, commerce and finance, with special emphasis on the period of national development. *Three hours, second semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Woodard

8. STATISTICS. An introductory course in the basic methods of statistical computation and the principles of statistical interpretation. *Three hours, first semester. This course is repeated in the second semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Willis

9. ECONOMIC GEOGRAPHY. A course presenting the facts of geography as a basis for business development. *Three hours.* REQUIRED (BUS.) FRESHMEN. ELECTIVE BY SPECIAL PERMISSION.

Professor Woodard and Miss Morgan

10. SOCIAL ECONOMICS AND CONSUMPTION. A study of modern industry with reference to its effect upon social welfare. It will consider the national income and its distribution, standards of living, family budgets, and cooperation, as these affect social well-being. In relation to these topics the course will consider population changes, recent technological achievements, and the consumer cooperative movement. *Three hours.* REQUIRED (BUS.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS

11. LABOR PROBLEMS AND PERSONNEL MANAGEMENT. A study of the principles involved in the employer-employee relation including, labor's attitudes and policies, organization of laborers and their activities, employers' attitudes and policies, employers' organizations, development of personnel policies and of cooperation between employers and workers. *Three hours.* REQUIRED (BUS.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS. *Professor Groat and Miss Morgan*

12. ACCOUNTING. An elementary course emphasizing the principles of accounting, with such practical work as is necessary to illustrate them. *Three hours.* REQUIRED (BUS.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS.

13. ADVANCED ACCOUNTING. The principles and practice of advanced accounting. *Three hours.* ELECTIVE TO SENIORS. PREREQUISITE: ECONOMICS 12. *Professor Briggs*
20. BUSINESS LAW. The general principles of business law as shown in cases arising out of typical business relations. *Three hours, first semester. This course is repeated in the second semester.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Briggs*
114. ADVANCED ECONOMICS. An advanced course in economic theory, emphasizing especially the relationship between the development of economic doctrines and industrial changes. *Three hours.* REQUIRED (BUS.) SENIORS. ELECTIVE TO SENIORS. PREREQUISITE: ECONOMICS 1. *Professor Groat*
115. SEMINAR IN ECONOMICS. An advanced course open to those who have shown ability to undertake independent investigation. *Three hours.* ELECTIVE TO SENIORS BY PERMISSION. PREREQUISITE: A SATISFACTORY MAJOR IN ECONOMICS. *Professor Groat*

ECONOMICS (*Secretarial*)

Professors Nulty and Davis

52. ELEMENTARY SHORTHAND. Instruction in the fundamental principles of Gregg Shortland. Dictation of business letters. *Five hours.* REQUIRED JUNIORS (SEC. AND C. T.). Not open to others.
53. ADVANCED SHORTHAND. Dictation covering a broad business vocabulary, and a variety of literary and technical subject-matter. Emphasis on speed in taking shorthand and in transcribing. *Five hours.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others. *Professor Nulty*
56. ELEMENTARY TYPEWRITING. Instruction in the care of the typewriter; correct technique; mastery of the keyboard; practice in variety of forms of material. *Five hours.* REQUIRED (SEC. AND C. T.) JUNIORS. Not open to others.
57. ADVANCED TYPEWRITING. Development of typing speed. Projects covering the different kinds of commercial typing. Transcription of shorthand notes. *Five hours.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others. *Professors Nulty and Davis*
58. BUSINESS CORRESPONDENCE. Construction of business messages, including routine and sales letters; correspondence supervision; preparation of oral and written reports. *Three hours.* REQUIRED (SEC. AND C. T.) SOPHOMORES. Not open to others.

59. **FILING.** Methods of indexing and filing; organization and management of the filing department; the business library, cataloging, classification, and reference works. *Three hours, first semester.* REQUIRED (SEC.) FRESHMEN. Not open to others.
60. **BUSINESS ORGANIZATION AND MANAGEMENT.** Organization and administrative policy; supervision and management of modern business units. *Three hours, second semester.* REQUIRED (SEC.) FRESHMEN. Not open to others.
61. **SECRETARIAL METHODS.** A study of the various tasks performed in the ordinary office; a study of the duties of a secretary. *Three hours, second semester.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others.
62. **OFFICE MANAGEMENT.** A study of organization and management as applied to office functions. *Three hours, first semester.* REQUIRED (SEC. AND C. T.) SENIORS. Not open to others.
Professor Davis
63. **PRINCIPLES AND METHODS IN COMMERCIAL EDUCATION.** Problems of organizing commercial courses on a vocational basis in secondary schools. Discussion of the content and the aims of the various commercial subjects and of the principles underlying their most effective presentation. Practice teaching. Practice Fee \$10.00 for the second semester. *Three hours.* REQUIRED (C. T.) SENIORS. Not open to others.
Professor Nulty

EDUCATION

*Professors Douglass, Sheldou, *Bennett, Kirby, Colburn, Holbrook, Wheeler, Nelle Adams, Kennan, Youngert, Waln, Eleanor Cummings, W. R. Adams, Rowell; Miss Marston, Mrs. Mills, Mrs. Elder, Miss Sullivan, Miss Parker, Miss LeBaron and Mrs. Morrill.*

†SECONDARY EDUCATION

1. **PRINCIPLES OF EDUCATION.** A study of the aims and principles underlying the educative process. The organization of the public

* Absent on leave, 1939-1940.

† Students who are preparing to teach in secondary schools are referred to the following specialized courses which are offered in other departments: Agricultural Education 2, 3, 4, 5, 10 (Teaching and Methods); Economics 63 (Methods in Commercial Education); English 116 (Advanced Composition); French 108 (Conversation and Composition); German 108, 109 (Composition, Conversation, and Language Methods); Greek 107 (Advanced Prose Composition); Home Economics 16 (Teaching Methods); Latin 9, 14 (Composition and Methods); Mathematics 14 (Teaching Mathematics); Music 10 (Music Methods); Spanish 104 (Conversation and Composition). For the curriculum in Secondary Education refer to the Index.

school system and the principles which determine the selection and treatment of subject-matter in the classroom will be considered. *Three hours, first semester.* REQUIRED (S. ED., EL. ED. MUS. ED., TCH. AG., H. E., C. T.) JUNIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS.

Professors Douglass, Holbrook, Nelle Adams; Mrs. Morrill

2. HISTORY OF EDUCATION. An interpretation of modern education in the light of historical development. The course includes a study of the gradual development of education from the primitive to the present complex and highly organized form. The influences of the most significant historical movements upon present educational theory and practice will be studied. *Three hours, first semester.* REQUIRED (S. ED.) JUNIORS OR SENIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS. *Professor Douglass*
3. EDUCATIONAL PSYCHOLOGY. The relation of modern education to the physical and mental development of the child; the modification of original characteristics and responses through education; the relation of instinctive and emotional tendencies to teaching and learning. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.
4. PSYCHOLOGY OF ADOLESCENCE. The characteristics of the adolescent and their relation to teaching and learning will be studied. This course is intended as an aid to prospective secondary school teachers in understanding the physical, mental and moral development of the secondary school pupil. *Three hours, second semester.* REQUIRED (C. T.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Youngert*
5. PHILOSOPHY OF EDUCATION. A development of a body of educational theory based upon psychological principles and upon present day social needs. The relationships of education to social welfare and the demands made upon education by a modern democratic society are given intensive study. *Three hours, second semester.* REQUIRED (S. ED., EL. ED., MUS. ED.) JUNIORS OR SENIORS. ELECTIVE TO OTHERS WHO HAVE SUCCESSFULLY COMPLETED ONE COURSE IN EDUCATION. *Professors Douglass and Holbrook; Mrs. Morrill*
6. HIGH SCHOOL ADMINISTRATION. A study of the organization of the secondary school; the re-direction of the curriculum; the supervision of instruction; the relationship of the principal to the community, the school board, the superintendent of schools, teachers and pupils; the construction of daily programs; pupil guidance; high school costs; extracurricular activities. This course is recom-

mended to those preparing for administrative positions in the educational field. *Three hours, second semester.* REQUIRED (S. ED., TCH. AG.) SENIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS.

Professor Douglass

7. PRINCIPLES AND MODERN PROCEDURES IN SECONDARY EDUCATION. A study of principles and techniques used in modern secondary school; class management; pupil diagnosis and guidance, teaching procedures; control; the direction of study. *Three hours, first semester.* ELECTIVE TO SENIORS. PREREQUISITE: A SATISFACTORY GRADE IN EDUCATION 1 WITH STATEMENT OF INTENTION TO TEACH.
8. STUDENT TEACHING IN SECONDARY SCHOOLS. Observation and teaching under supervision in junior and senior high schools in Burlington and vicinity. Conferences, reports, thesis. Practice Fee \$10.00. *Three hours, second semester. Enrollment is limited.* PREREQUISITE: SATISFACTORY CREDIT IN EDUCATION 1 AND EDUCATION 7 WITH THE APPROVAL OF THE ENROLLMENT BY THE DEPARTMENT OF EDUCATION.
Professor Youngert
9. INTRODUCTORY COURSE IN EDUCATIONAL MEASUREMENTS. An introductory survey of tests of intelligence, performance, achievement, personality and special abilities, with study of their development and use as an aid to the improvement of instruction. Laboratory Fee \$2.00. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
10. ADVANCED COURSE IN EDUCATIONAL MEASUREMENTS. A study of standardized tests, group and individual, with special emphasis on practical application to the study of individual children. Practice in the administration of tests is included. Laboratory Fee \$2.00. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Holbrook and Miss Parker
11. SCHOOL ADMINISTRATION. A study of State and county school administration, supervision of instruction, making of courses of study, use of tests and measurements, use of statistical methods, business methods, selection of teachers. The course is conducted as a research seminar, with lectures and discussions. This course is recommended as a preparation for the position of school principal or superintendent of schools. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
13. SCHOOL AND CLASS MANAGEMENT. A study of the principles underlying intelligent management in the modern school. Specific problems in school and class management will be studied to clarify the principles involved. Parts of the school law of Vermont will

be used to show the relation of teachers, pupils and parents to various legal requirements. Lectures, discussion, readings. This course is identical with Elementary Education 347. *Three hours, first semester.* REQUIRED (EL. ED.). ELECTIVE TO OTHERS.

Professor Youngert

112. SEMINAR. Problems in present-day education will be proposed for individual and group investigation. Each student will present a report upon some problem to be chosen in conference with the instructor. The discovery of a problem, methods of investigation, the making of a bibliography and standards for the presentation of material will be studied. *Three hours.* ELECTIVE, BY PERMISSION, TO SENIORS IN EDUCATION AND GRADUATE STUDENTS IN EDUCATION.

Professor Douglas and the Departmental Professors

* ELEMENTARY EDUCATION

Professors Douglass, Wheeler, Nelle Adams, Sheldon, †Bennett, Kirby, Colburn, Holbrook, Kennan, Cummings, W. R. Adams, Rowell, Youngert; Miss Marston, Miss Sullivan, Mrs. Mills, Mrs. Elder, Miss Parker, Miss LeBaron and Miss Madigan.

321. INTRODUCTION TO EDUCATION. A study of the elements of psychology as applied to the learning process and child development; an initial, comprehensive preview of the whole program of education, including observation in the preschool clinic, the nursery school, the kindergarten, and various types of elementary schools. Desirable social and professional relationships are emphasized. *Three hours.* REQUIRED (EL. ED.) FRESHMEN.

Professor Nelle Adams

322. READING IN THE ELEMENTARY SCHOOL. This course includes a study of principles underlying the teaching of reading. Reading readiness, remedial reading, phonetics, and the cultivation of correct study habits are stressed. The use of standard tests for purposes of diagnosis and improvement in reading are considered. Demonstration, illustration, practice and theory, are combined. *Two hours, second semester.* REQUIRED (EL. ED.).

323. LITERATURE FOR THE ELEMENTARY GRADES. This course includes an interpretative and critical study of types of literature for the eight grades of the elementary school. Emphasis is placed upon the classification of this material for the various grades and upon presentation, through story telling and reading. Students satisfactorily

* For the curriculum in Elementary Education refer to the Index.

† Absent on leave, 1939-1940.

meeting the requirements of this part of the course are allowed the privilege of telling stories at the Saturday afternoon story-telling hour at the Fleming Museum. *One hour.* REQUIRED (EL. ED.) SOPHOMORES OR JUNIORS.

324. PROBLEMS OF TEACHING ENGLISH IN THE ELEMENTARY GRADES. A study of the principles, types of subject-matter and methods in the teaching of English, including spelling, cursive and manuscript writing, in the elementary school. The purpose of the course is to provide for vitalizing the oral and written composition work and for integrating it with the other subjects of the curriculum. Some of the common speech problems and their solutions will be considered. Attention will be given to a study of achievement tests in English. *Two hours.* REQUIRED (EL. ED.) FRESHMEN OR SOPHOMORES.
Miss Sullivan
325. THE TEACHING OF ARITHMETIC IN THE ELEMENTARY GRADES. This course includes a study of the subject-matter and modern methods of presentation. Emphasis is placed upon practical economic and social uses of advanced arithmetic and use of standard tests. During the first semester of the first year a remedial course in arithmetic is required of all students who fail to attain the necessary standard as determined by an objective test. *Two hours.* REQUIRED (EL. ED.).
Professor Nelle Adams
326. HUMAN GEOGRAPHY. A study of the relationship of man to his natural environment; how geographic conditions affect the life and activities of people and the influence of environment on economic and social development. Type regions are studied in detail, bringing out causal relationships. This course is especially designed as background for teachers of geography and history. *Two hours.* REQUIRED (EL. ED.) FRESHMEN OR SOPHOMORES.
327. UNITED STATES HISTORY AND CIVICS FOR ELEMENTARY TEACHERS. Designed to give students a thorough acquaintance with the history and civics usually taught in elementary schools, this course deals with the development of the American people and nation from the old world origins to the present day. Special attention is given to valuable materials and procedures in the teaching of history. Social and cultural trends in our national development which are most important to an understanding of present day problems will be stressed. *Three semester hours.* REQUIRED (EL. ED.) SOPHOMORES, JUNIORS OR SENIORS.
Professor Kennan
328. HYGIENE. This course is intended to give the prospective teacher a thorough knowledge of personal and social hygiene. The struc-

ture of the human body and the functions of the various organs are studied, as well as the principles of personal and social hygiene and sanitation. First Aid is included as an important part of the course. Movements for the advancement of hygienic living receive careful consideration. This course is closely correlated with Education 334 (Physical Education). *Two hours.* REQUIRED (EL. ED.) FRESHMEN.
Professor Eleanor Cummings

329. ENGLISH AND LITERATURE. (See English 1 and 2.)

Miss Sullivan

330. PENMANSHIP. This course includes practice under supervision for all who have not attained the required degree of proficiency in handwriting. Several methods in common use are studied. The psychology of penmanship is considered. The use of scales in evaluating penmanship and instruction in methods of teaching are given attention. Blackboard writing is included. *One hour.* REQUIRED (EL. ED.) FRESHMEN.
Miss Madigan

331. TECHNIQUE OF TEACHING. This course develops the aims and principles of education and shows their applications to instruction. It is closely correlated with the course in Student Teaching. *Two hours, second semester.* REQUIRED (EL. ED.) SOPHOMORES, JUNIORS OR SENIORS. ALTERNATE REQUIREMENT WITH EDUCATION 332.

Professor Wheeler

332. THE ELEMENTARY SCHOOL CURRICULUM AND PROCEDURE. This course includes a study of recent contributions to knowledge regarding elementary school subject-matter and procedures which have been gained from research and scientific investigations. The materials which should be included in each grade, their psychological arrangement and presentation are considered. Observation, participation and student teaching in graded and one-room schools are included. Practice Fee \$2.00. *Six semester hours, first semester.* REQUIRED (EL. ED.). ALTERNATE REQUIREMENT WITH EDUCATION 331 FOR EL. ED.

333. STUDENT TEACHING IN ELEMENTARY SCHOOLS. Observation and teaching under supervision in elementary schools of Burlington and in the vicinity. Conferences, reports, thesis. Open to students who have met satisfactorily other academic and professional requirements demanded of elementary teachers, including acceptable use of oral and written English. This course is definitely integrated with Education 332. Experienced teachers who show a high degree of competence during their first period of student teaching may be permitted to substitute seminar work in Elementary Education

for a part of this course. Practice Fee \$2.00. *Six hours, second semester.* REQUIRED (EL. ED.). PREREQUISITE: EDUCATION 332.

Professors Douglass, Wheeler, Nelle Adams, Kennan, Sheldon and Colburn; Misses Sullivan and Marston

334. PHYSICAL EDUCATION. This course is closely related to the study of hygiene. A physical examination is given and corrective measures for poor posture and the improvement of the general health are taught. The course includes not only physical training and games, but also methods of teaching the subject. *Two hours.* REQUIRED (EL. ED.) FRESHMEN AND SOPHOMORES. *One hour.* REQUIRED (EL. ED.) JUNIORS AND SENIORS.

Professor Eleanor Cummings

335. PUBLIC SCHOOL MUSIC 1. This course is designed for students in Elementary Education and others who wish to prepare to teach music in the schools. Emphasis is placed upon elementary theory, appreciation through rote songs and methods for developing the sense of rhythm and melody. *Two hours.*

336. PUBLIC SCHOOL MUSIC 2. A continuation of the first course in School Music, including part singing, and methods for developing the sense of rhythm and melody. Required reading. *Two hours.*

Professor Kirby; Miss Marston and Mrs. Elder

337. ART EDUCATION 1. The theory and practice of art and the development of skill and judgment through drawing, painting, lettering and handwork. Special emphasis is given to art appreciation. Studio Fee \$1.00 per semester. *Two double periods.* REQUIRED (EL. ED.)

338. ART EDUCATION 2. A study of the principles of color and design as applied in various art crafts, such as stencilling, block printing, bookbinding, color printing, batik, tooled leather and gesso. The aim is to develop in prospective teachers standards of good taste by which they may influence the personal and civic ideals of the communities in which they work. Studio Fee \$1.00 per semester. *Two double periods.* ELECTIVE (EL. ED.).

Professor Colburn and Mrs. Mills

339. OBSERVATION AND STUDENT TEACHING. The development of teaching skills and the application of the principles involved in effective teaching. The course is closely correlated with the other courses in Elementary Education by classroom demonstration and discussions. Observation of demonstration lessons is followed by conferences in which the underlying principles of the observed instruction are discussed. This leads to participation in instruction

and finally to full responsibility for the teaching and control of the school. Practice Fee \$2.00 per semester. *Two hours of Observation and Conference and of Student Teaching.* REQUIRED (EL. ED.) FRESHMEN, SOPHOMORES OR JUNIORS. *Six hours.* REQUIRED (EL. ED.) SOPHOMORES, JUNIORS OR SENIORS WHO HAVE NOT ENROLLED IN EDUCATION 332 AND 333.

Professor Wheeler

340. MENTAL HYGIENE ARTS AND CRAFTS. This course is divided into two independent parts. The first is the study of the principles of mental hygiene of the school child and the teacher.

The second part is a study of various arts and crafts, especially as a motivating force for academic subjects. Both parts work together for the successful adjustment of the child in school. The crafts instruction will include weaving, brush making, metal work, clay, puppetry and woodworking. Studio Fee \$1.00 per semester. *Three hours.* (EL. ED.). ALTERNATE REQUIREMENT WITH ELEMENTARY EDUCATION 337. *Professor Holbrook and Miss Parker*

341. THE TEACHING OF ART. Art principles and processes as integrated with present educational practice will be discussed, demonstrated and observed in this course. Through presentation of the principles of creative expression, with unit technique of developing art appreciation, students are trained to recognize and meet the art needs of varying situations. *Two hours.* REQUIRED (EL. ED.) SENIORS.

Professor Colburn

344. RURAL EDUCATION AND SOCIOLOGY. A study of the social forces which are influencing modern American life, the best of the local environment in promoting the development of pupils, the place of elementary science in rural and graded schools, the elements of Home Economics essential for the elementary teacher. *Three hours.* REQUIRED (EL. ED.) SOPHOMORES, JUNIORS OR SENIORS.

Professor Sheldon and Miss LeBaron

345. ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING. The teaching of music in the primary and grammar grades. *The topics include classroom management, definite lesson plans for each grade, discussion of the various methods in use, the psychology of school music teaching, tests and measurements in music education, observation of the music in the grades in the Burlington school system and teaching of children under supervision. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE (EL. ED.) JUNIORS AND SENIORS. PREREQUISITES: CREDIT OR SIMULTANEOUS ENROLLMENT IN MUSIC 1 AND 8.

Miss Marston

346. EDUCATIONAL BIOLOGY. (See Botany 14 and Zoology 14.) *Four hours.* Professors W. R. Adams and Rowell
347. SCHOOL AND CLASS MANAGEMENT. (See Education 13.)
348. ADVANCED COURSE IN TEACHING PROCEDURES. In this course particular consideration is given to the teaching of Reading and Arithmetic. *Two hours.* REQUIRED (EL. ED.) UNLESS EDUCATION 332 AND 333 ARE TAKEN.

*INDUSTRIAL EDUCATION

1. PRINCIPLES OF VOCATIONAL EDUCATION. A study of the history, principles and problems, including early apprenticeship systems, state and federal legislation and aid, and modern trends in industrial training. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
2. METHODS OF TRADE TEACHING. This course presents the relation of Vocational Education and Industrial Arts and methods of teaching industrial shop and related subjects. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
3. METHODS OF TRADE TEACHING (ADVANCED). A continuation of the work of Industrial Education 2, emphasizing technique and offering practice in the application of methods of teaching industrial subjects. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
4. TRADE ANALYSIS. An analytical study of trade practice as a basis of course planning. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
5. TRADE ANALYSIS (ADVANCED). A continuation of the course in Industrial Education 4 presenting the organization of trade content, discovered by analysis, into useful outlines of instruction. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
6. PREPARATION OF INSTRUCTIONAL MATERIALS. A survey of organized instructional material and a study of the principles and methods involved. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
7. PREPARATION OF INSTRUCTIONAL MATERIALS (ADVANCED). A continuation of Industrial Education 6 with emphasis on practice in preparing materials. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
8. TEACHING INDUSTRIAL ARTS. A study of the organization and management of the general shop or laboratory of industries. *Four hours.* REQUIRED (IND. ED.) SENIORS.
9. OBSERVATION AND DIRECTED TEACHING. This course includes observation and conference discussions, followed by supervised prac-

* For the curriculum in Industrial Education refer to the Index.

tice in teaching of trade and industrial classes in the public schools of Burlington and vicinity. *Three hours, second semester.* REQUIRED (IND. ED.) SENIORS.

10. SPECIAL PROBLEMS. A study and investigation of problems of special interest to the student. Formal preparation of results in thesis form required. *Two or three hours.* ELECTIVE (IND. ED.) SENIORS.

*ENGLISH

Professors Tupper, Aiken, †Lindsay, Storms, Dean, Hall, Wainwright, Carleton, Pope; Mr. Powers, Miss Sullivan, Mr. Merrick

1. RHETORIC AND COMPOSITION. An elementary course, including criticism of the common errors of speech; study of words, sentences and paragraph construction; theme writing and study of selected literature as illustrative of the principles discussed. *Two hours.* REQUIRED OF ALL FRESHMEN.

Professors Aiken, Lindsay, Dean, Hall, Wainwright, Storms, Carleton and Pope; Miss Sullivan, Mr. Merrick

2. HISTORY OF ENGLISH LITERATURE. An outline study of the History of English Literature from its beginning through the Victorian Period. There are required readings and reports on the more important works. *Two hours.* REQUIRED (ARTS, AG) SOPHOMORES. FOR SOPHOMORE (ENG.) THIS COURSE IS GIVEN AS COMPOSITION NOT LITERATURE.

Professors Aiken, Lindsay, Storms, Dean, Hall, Carleton and Pope; Miss Sullivan, Mr. Merrick

3. ENGLISH LITERATURE FROM 1700 TO 1900. Lectures and seminars upon the poets and important literary movements from the Restoration through the Victorian age. The course includes a series of lectures upon the history and principles of English versification. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)
6. SHAKSPERE AND HIS CONTEMPORARIES. A study of Elizabethan drama by lectures and collateral reading with literary study and textual interpretation of selected plays of Shakspeare. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.

(1940-1941) *Professor Pope*
(1941-1942) *Professor Tupper*

* A major in this department must include credit for English 1, English 2, English 26 and 27. In addition, courses aggregating at least 16 semester hours will be required. Not more than one course in advanced composition may be counted. Four semester hours of credit in Latin 11 or Latin 16 may be counted toward the 16 elective hours.

† In resident historical research, 1939-1940.

7. AMERICAN LITERATURE. A general survey of American prose and poetry from the Colonial period to the present time with lectures, reports and collateral reading. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Lindsay
8. ARGUMENTATION. An outline study of the elements of Argumentation with class discussions and practice in brief writing. *One hour.* ELECTIVE.
Mr. Powers
9. THE ENGLISH NOVEL. A critical study of masterpieces of English fiction to the nineteenth century. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)
10. THE NINETEENTH CENTURY NOVEL. A critical study of selected novels of the nineteenth century. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Tupper
11. POETRY OF THE ENGLISH RENAISSANCE. Lectures and textual study of selected passages from the more important works of Spenser, Milton and their contemporaries. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
12. A HISTORY OF THE ENGLISH ESSAY. ...The beginning and development of the English essay to the present day, with a study of the leading essayists. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)
Professor Aiken
13. FORMS OF PRESENT-DAY LITERATURE. A study of English poetry, novel and short story with particular reference to contemporary movements and writers. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professors Aiken, Carleton and Lindsay
14. MODERN DRAMA. The origin and development of American drama with a study of leading European dramatists. The course includes readings of representative plays, the new art of drama and the theatre. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Tupper
15. JOURNALISM. A study of the principles and practices of news writing, with daily assignments and discussions that cover the different phases of reportorial and editorial work and the various types of special writing such as department material, correspondence, interviews and feature stories. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Dean
16. SOPHOMORE COMPOSITION. A course planned to introduce second-year students particularly interested in writing to the different forms

of creative work. *One hour.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Dean*

19. INTRODUCTION TO POETICS. An elementary study of the general problems of aesthetics as related to poetry, the forms and characteristics of poetry. Special attention is given to the lyric. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.) *Professor Lindsay*
20. WORDSWORTH AND COLERIDGE. A study of the life, character and work of William Wordsworth and of Samuel Taylor Coleridge. General class discussion of assigned reading and individual study of selected topics, the results of which are presented before the class. This course may be supplemented by English 30. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.) *Professor Lindsay*
21. BIOGRAPHY AS A TYPE OF LITERATURE. The growth of biography as a literary type will be studied; some of the significant writers in this field will be considered, with especial emphasis on present-day English and American biographers. There will be lectures on theory and practice with conferences on problems assigned to the class. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Hall*
22. VICTORIAN LITERATURE. A study of the lives, works (except the novel), and intellectual backgrounds of the major writers of the era by lectures, reports and discussions. The first semester is devoted to the prose masters, such as Macaulay, Carlyle, Ruskin, Arnold, Huxley, Pater and Stevenson; the second, to the chief poets, such as Tennyson, Browning, Arnold, Morris, Swinburne and Rossetti. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Wainwright*
23. BIBLICAL LITERATURE. An introduction to the literature of the Bible. A consideration of the value and appeal of the Book as an English classic, preceded by a brief review of its historical development. Lectures, reports, class readings. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Hall*
24. SCANDINAVIAN LITERATURE IN TRANSLATION. The Old Norse civilization and literature including the Elder Edda and the Sagas followed by a study of the principal Scandinavian authors of the nineteenth and twentieth centuries. Lectures on those periods not covered by adequate translation. Students will be assigned definite problems for research. (This course is not to be included as a part

of any required major.) *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Carleton*

25. HISTORY AND PRINCIPLES OF CRITICISM. A comparative study of the more important critical writings, past and present, considered as contributions to the theory of literature and as aids to interpretation of literary works. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)

Professor Lindsay

26. JUNIOR READING. Reports or tests on reading from a list of books selected by the Department. *One semester hour.* REQUIRED (CL., L. S., S. S., G. S., ED.) JUNIORS.

27. SENIOR READING. Individual reading assignments and reports. *One semester hour.* REQUIRED OF SENIORS MAJORING IN ENGLISH.

28. AMERICAN LITERATURE FROM 1865 TO 1914. A study of the rise of realism and the growth of regionalism. Lectures, group reports, and subjects assigned for special investigation. *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: ENGLISH 7.

Professor Carleton

30. THE REVOLUTIONARY POETS. The lives, characters, and works of Byron, Shelley and Keats. Lectures and general class discussion of assigned reading in their poems and letters, collateral reading in the subject and individual reports on selected topics. This course is supplementary to English 20. *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)

Professor Pope

104. ANGLO SAXON. Training in early linguistic forms and in the development of English. The course includes a literary study of Anglo-Saxon prose and poetry. Text, Smith, *Old English Grammar.* *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)

105. CHAUCER. A continuation of English 104 with further training in linguistic development. The course includes a study of Chaucer's poetry and collateral readings in the work of his contemporaries. *Two hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: ENGLISH 104. (Offered in alternate years, 1940-1941.)

Professor Tupper

106. TYPES OF MEDIEVAL LITERATURE. An introduction to the study of literary forms, including history, legend, romance, allegory, lyric, and the drama in the Middle English period. *Two hours, first*

semester. ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)
Professor Tupper

116. ADVANCED COMPOSITION. This course is recommended to those who wish to teach English, and for others who wish practice in writing. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Lindsay
117. SHORT STORY WRITING. An advanced course in short story technique for students having the necessary qualifications. A study of the technical methods and devices employed in contemporary short story writing, readings, assignments and classroom criticism. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
118. MAGAZINE JOURNALISM. A companion course to that in Short Story Writing. The same program of laboratory work, class discussion and reading employed. Consideration given to such phases of magazine writing as articles, book reviews, editorials, interviews, departments, and features. *Two hours.* ELECTIVE TO JUNIORS AND SENIORS.
Professor Dean

*FORESTRY

Professor Adams

1. CONSERVATION OF NATURAL RESOURCES. The conservation of the natural resources of the United States. The contribution of soil, forests, minerals, and water to the economic and social development of the country. Application of the conservation philosophy on human life and American civilization. Textbook and lectures. *Two hours, first semester.* ELECTIVE.
2. WOODLOT FORESTRY. (See Department of Forestry in the College of Agriculture.)
3. MENSURATION AND MANAGEMENT. (See Department of Forestry in the College of Agriculture.)
5. LUMBER INDUSTRY. A study of the methods and costs of logging, milling and marketing of lumber and lumber products. Text-book, lectures, inspection trips. *Three hours, second semester.* PRE-REQUISITE: FORESTRY 1 OR 2.
6. SILVICS. A study of the climatic, physiographic and biotic factors in their individual and collective effect on the growth of trees. Consideration of the physiology of trees in response to their envi-

* For other courses in Forestry refer to the Index.

ronment. The course is devised to apply both in horticulture and silviculture. Research methods. *Three hours, first semester; repeated second semester.* PREREQUISITE: BOTANY 2 OR 3, OR FORESTRY 2.

7. BIOLOGICAL STATISTICS. (See Department of Forestry in the College of Agriculture.)

FRENCH

For courses in French see Romance Languages.

*GEOLOGY

Professors †Jacobs and Doll; Acting Professor Doten

1. INTRODUCTORY GEOLOGY. A lecture and laboratory course in determinative mineralogy, including elements of crystallography and elementary geology, serving as an introduction to geologic science. Laboratory Fee \$2.50 per semester. *Four hours (two two-hour laboratory periods, one lecture, and one recitation.)* ELECTIVE TO ALL CLASSES. DESIRABLE PREREQUISITE: CHEMISTRY 1, 21, 22 OR 23.

Professor Doll

2. PHYSIOGRAPHY. A course designed to give the student a broad acquaintance with the surficial features of the earth, as well as an elementary understanding of the universe in which he lives. It includes in the first semester the elementary principles and facts of astronomy, the composition and action of the atmosphere and the ocean, the principles of meteorology and some aspects of climatology. During the second semester the relief features of the earth, their classification, description and human significance are considered, particular emphasis being placed on the physiographic divisions of the United States and Europe. Some attention is given to the economic aspects of the subject. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Jacobs

3. ENGINEERING GEOLOGY. This course begins with a study of the ore and rock-making minerals, followed by a consideration of the more common rocks, their mineral composition, occurrence, and genesis. Then comes the usual treatment of structural and dynamic

* The courses in Geology are arranged to meet the needs of two classes of students: (1) Those desiring a general knowledge of the subject, as part of a liberal education; and (2) those wishing to specialize in it during the undergraduate years in preparation for possible graduate study. For the former courses 1, 2 and 4 are suggested; for the latter, all courses except 3 and 5 are recommended. Only course 1 is open to freshmen.

† Absent on leave, December 20, 1939-June 15, 1940.

geology and stratigraphy. Stress is laid on those aspects of the subject most useful to engineers. Ries and Watson's *Engineering Geology* is used as a text and it is supplemented by illustrated lectures, map work, and occasional field trips. Laboratory Fee \$2.50. *Three hours, first semester. (One laboratory period and two single hours per week.)* REQUIRED (C. E.) SENIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1 OR 21, AND PHYSICS 1. *Professor Jacobs*

4. GENERAL AND HISTORICAL GEOLOGY. In the first semester a lecture, laboratory, and field course in structural geology, during which observations made in the field are discussed and supplemented by work in the laboratory. Weekly field trips, carried on as late as the season permits, to the many and varied points of geological interest within easy motoring distance of the University serve to stress the practical aspect of the subject. In the second semester a course is given in Historical Geology, supplemented by laboratory work in palæontology and by several field trips to fossil localities. The course serves to present to the student a brief outline of the geological history of the earth and its past inhabitants. Laboratory Fee \$2.50 per semester. *Three hours. (Two laboratory or field periods and one lecture per week for the year.)* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Doll*

5. ENGINEERING GEOLOGY. This course, a continuation of Geology 3, presents the modern conceptions of the earth: its probable origin, its internal condition as revealed by the seismograph, and other considerations of value to students having a scientific background. A somewhat brief consideration of historical geology closes the year. *Three hours, second semester.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: MINERALOGY 1 OR GEOLOGY 3. *Professor Jacobs*

6. OPTICAL CRYSTALLOGRAPHY AND ELEMENTARY PETROGRAPHY. A study is made first of mineral thin sections, oriented or otherwise, and then of minerals and their associations as they occur in rocks. Quite a large collection of sedimentary, igneous, and metamorphic rocks and rock sections is available for the work. Laboratory Fee \$5.00 per semester. *Three hours. (Two laboratory periods and one lecture a week.)* PREREQUISITE: GEOLOGY 1, OR MINERALOGY 1. ELECTIVE BY PERMISSION. *Professor Jacobs*

7. STRUCTURAL GEOLOGY. This course considers the architecture of the earth as seen in the various primary and secondary structural features, such as folds, fractures, faults, cleavage, batholithic intrusions, etc. Attention is given to the relation of such structures to

mountain building. Instruction is given by means of lectures, collateral reading, laboratory work and field work. Geology 4 and Geology 8 are suggested as supplements to this course. Laboratory Fee \$2.50. *Three hours, first semester. (Two laboratory periods and one lecture a week.)* PREREQUISITE: GEOLOGY 1. Professor Doll

8. ADVANCED STRUCTURAL GEOLOGY. Laboratory Fee \$2.50. *Three hours, second semester. (Two laboratory periods and one lecture a week.)* PREREQUISITES: GEOLOGY 1 AND GEOLOGY 7. Professor Doll
108. ADVANCED SEMINAR. The department offers this laboratory seminar for those who have taken Geology 1 or 2, and 4. One or more phases of geologic science will be studied in the library and laboratory, with the aim of acquiring a broad acquaintance with the subject. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE BY PERMISSION. Professors Jacobs and Doll

GERMAN

Professors Carpenter and Ladd; Messrs. Bickford and Blume

1. ELEMENTARY COURSE. A course in grammar, pronunciation, translation, composition, dictation and oral practice, for students presenting less than two years of entrance German. Students taking this course must continue with German 2 the following year. (See also German 11.) *Three hours.* ELECTIVE TO FRESHMEN, SOPHOMORES AND JUNIORS.

Professors Carpenter and Ladd; Messrs. Bickford and Blume

2. INTERMEDIATE COURSE. In this course emphasis is placed on the attainment of reading ability through the intensive and extensive reading of modern short stories, novels, plays and material containing information about the geography and history of Germany. Particular stress is placed on the acquisition of a basic vocabulary necessary for reading German works in any special field. During the second semester two of the five sections read material dealing with the biological sciences. (See also German 11.) *Three hours.* ELECTIVE TO ALL CLASSES. PREREQUISITE: GERMAN 1 OR AT LEAST TWO YEARS OF PREPARATORY GERMAN.

Messrs. Bickford and Blume

3. SCIENTIFIC GERMAN. A course in the reading of selected scientific works which aims not only to furnish the student a reading knowledge of that branch of science in which he is specializing, but also to acquaint him with the general development of scientific thought and method in his field and with the outstanding personalities who

have influenced this development. In the second semester, individual assignments are made along the line of each student's chief scientific interest. *Three hours.* ELECTIVE TO STUDENTS MAJORING IN SCIENCE. PREREQUISITE: A GRADE OF C OR BETTER IN GERMAN 2. *Professor Ladd*

4. GERMAN LITERATURE OF THE CLASSIC PERIOD. The course covers a selection of the works of Goethe, Schiller and Lessing, and a survey of the development of German literature from the beginnings through the Classic period. Recitations, supplementary reading and reports are required. *Three hours.* ELECTIVE. PREREQUISITE: A GRADE OF C OR BETTER IN GERMAN 2. *Mr. Blume*

8. COMPOSITION AND CONVERSATION. A course giving practice in German composition and training in speaking the language. Free composition and oral reports on individual assignments are required. *Three hours, first semester.* ELECTIVE BY PERMISSION. THIS COURSE MAY BE TAKEN SIMULTANEOUSLY WITH GERMAN 2. *Professor Ladd*

9. COMPOSITION AND CONVERSATION. A course giving practice in of German 8. By permission it may be taken independently of it for credit. *Three hours, second semester.* ELECTIVE BY PERMISSION. PREREQUISITE: A SATISFACTORY RECORD IN GERMAN 2 OR GERMAN 8. *Professor Ladd*

10. GERMAN LITERATURE IN TRANSLATION. A survey of the development of German literature from the earliest times presented by lectures. Representative works, selected mainly from the Classic Period and the nineteenth and twentieth centuries, are read and discussed. *Two hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. NO KNOWLEDGE OF GERMAN IS REQUIRED. *Professor Carpenter*

11. ELEMENTARY-INTERMEDIATE GERMAN. This double course is the equivalent of German 1 and German 2. The first semester is elementary; the second, intermediate. *Six hours.* REQUIRED (CH.) FRESHMEN. ELECTIVE TO OTHERS. *Mr. Blume*

104. GOETHE'S FAUST. A course based on class readings of Part I and portions of Part II. The sources of the poem and its influence are studied, particularly in relation to English literature and drama. There are supplementary readings assigned to various plays which deal with a similar theme. *Three hours, first semester.* ELECTIVE, PREREQUISITE: GERMAN 4. (Offered in alternate years, 1940-1941.) *Professor Carpenter*

105. GERMAN LITERATURE, 1800-1850. The course includes a study of the selected works of Kleist, Grillparzer and Heine; recitations, outside reading and German reports. One hour a week is devoted to lectures and discussions on the Romantic movement and Young Germany. *Three hours, second semester.* PREREQUISITE: GERMAN 4. (Offered in alternate years, 1940-1941.) *Professor Carpenter*
106. MODERN GERMAN LITERATURE. A course consisting of lectures and class discussions of the history of German literature since 1850. The first semester and a portion of the second are devoted to a study of German drama from Hebbel to the present-day writers. The remainder of the second semester is given to rapid reading of short stories. Typical novels are assigned for outside reading. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 4. (Offered in alternate years, 1941-1942.) *Professor Carpenter*
107. EARLY GERMAN LITERATURE. A survey of German literature from the earliest times to the Reformation, followed by a more detailed study of Middle High German and its principal literary monuments. This course is intended primarily for graduate students specializing in German. *Two hours.* ELECTIVE. *Professor Carpenter*
108. ADVANCED COMPOSITION AND CONVERSATION. This course aims to enable the student to speak and write German with facility. Special attention is paid to phonetics as a basis for the acquisition of a correct pronunciation. The course is recommended to those preparing to teach German. Students should consult the instructor before enrolling. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 4 OR 8. *Professor Carpenter*
109. MODERN LANGUAGE METHODS. A general course in methods for those preparing to teach *any* modern foreign language. After a brief historical survey of the teaching of modern languages, methods now in vogue are examined. Text-book: Cole's "Modern Foreign Languages and Their Teaching." Collateral reading in various text-books dealing in general with secondary school methods, in periodicals treating of modern language methods and in the publications of the American and Canadian Committees on Modern Languages. The students in the course are called upon to demonstrate various methods, and are expected to prepare a syllabus outlining suitable secondary school courses in the language of their choice. *Three hours, second semester.* REQUIRED OF THOSE WHO WISH A RECOMMENDATION TO TEACH GERMAN. ELECTIVE TO JUNIORS AND SENIORS WHO INTEND TO TEACH A MODERN FOREIGN LANGUAGE. NO KNOWLEDGE OF GERMAN IS REQUIRED. *Professor Carpenter*

HISTORY

Professors Evans, Putnam, Pooley and Dean; Mr. Silvester

1. ANCIENT HISTORY. A brief survey of the history of the ancient Near East, the history of Greece and Rome including the cultural development of the Greek world, the expansion of the Roman Republic and the Roman Empire. *Three hours.* ELECTIVE BY PERMISSION TO SOPHOMORES, JUNIORS AND SENIORS.
Professor Pooley
2. MEDIEVAL EUROPE. A course in European History from the disruption of the Roman Empire to the Renaissance. The principal barbarian invasions, feudalism, the rise of the Christian Church and the Papacy, the Crusades, the development of culture and the rise of national states. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
Professor Pooley
3. SURVEY OF MODERN EUROPE. An introduction to European history commencing with the rise of the national state and the beginnings of modern economic life. *Three hours.* REQUIRED (S. S.) FRESHMEN. ELECTIVE TO ALL CLASSES. NO CREDIT ALLOWED STUDENTS WHO HAVE CREDIT FOR HISTORY 11 OR 12.
Professor Evans; Mr. Silvester
4. HISTORY OF LATIN AMERICA. A study of South America from the time of European discovery and settlement to the present with emphasis upon the political rise of the South American republics. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Putnam
5. ENGLISH HISTORY. A survey of British affairs from prehistoric times to date. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Evans
7. EARLY AMERICAN HISTORY. A course in American history from the discovery of the new continent to 1865 including a study of Colonial affairs, the Revolution, the Constitution, the new nationalism, Westward Expansion, the Slavery Controversy and the Civil War. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years 1940-1941.)
Professor Putnam
8. RECENT AMERICAN HISTORY. A study of the History of the United States from 1865 to the present, including reconstruction, national

and economic development and America as a world power. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
Professor Putnam

9. HISTORY OF VERMONT. A course covering the field of state history from the Indian and colonization period to the present, based on textbook, weekly reports and classroom discussion. *One hour.* ELECTIVE.
Professor Dean

10. HISTORY OF CANADA. A study of Canadian development from the French exploration and settlement to the present time with emphasis upon the evolution of self-government and relations with the United States. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)
Professor Putnam

- ✓ 11. EARLY MODERN HISTORY. A study of the Renaissance, the Reformation and seventeenth century Europe with special attention to the economic and social history of the period. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)
Professor Evans

- ✓ 12. EUROPE SINCE 1715. A survey of eighteenth century Europe; the French Revolution and the Napoleonic era; the age of Metternich; liberalism, nationalism, and imperialism; the World War and after. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
Professor Evans

- ✓ 13. CONTEMPORARY HISTORY. A study of history in the making based upon newspaper and periodical material. The course stresses the historical background of current events and problems. *Three hours.* ELECTIVE BY PERMISSION. ENROLLMENT LIMITED TO FOURTEEN STUDENTS.
Professor Evans

- ✓ 14. AMERICAN HISTORY. A general survey of American history from the early national period to the present, designed for students who intend to take only one course in the subject. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. NO CREDIT ALLOWED STUDENTS WHO HAVE CREDIT FOR HISTORY 7 OR 8.
Professor Putnam

115. SEMINAR. Advanced study in a selected field. ELECTIVE TO GRADUATE STUDENTS AND SENIORS BY PERMISSION.
Professors Evans and Putnam

HOME ECONOMICSProfessors Terrill, Bailey and Holbrook*

18. NUTRITION. A scientific study of nutrition in relation to health; composition and nutritive value of food; cost of food in relation to food value; processes of digestion and metabolism; the requirements of the body for energy, protein, minerals and vitamins; food requirements as modified by age, sex and activity. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.

Professor Bailey

23. THE FAMILY. A course dealing with the origin, development, structure and functions of the family as a sociological unit and its influence in shaping social ideals and relationships in the modern world. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
24. HOME MANAGEMENT. A study of housing in relation to health with consideration of equipment, budgets and factors of wholesome home environment for all family members. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Terrill*
25. THE PRESCHOOL CHILD. A study of the mental, moral and emotional development of children from birth to six years, with special emphasis upon the social and educational significance of this period. History and theory of the Nursery School movement with opportunity for observation and work with children of preschool age. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.

*Professor Holbrook***LITERATURE**

See courses under English. For courses in Comparative Literature see German 10; Greek 103, 105; Latin 11, 16 and English 24.

†MATHEMATICS*Professors Swift, Fraleigh, Householder, Nicholson and Witham*

1. FRESHMAN MATHEMATICS. This required course in Elementary Mathematics includes Algebra, Plane Trigonometry in the first semester, followed by Analytic Geometry and a brief introduction

* For the curriculum and other courses in Home Economics refer to the Index.

† Those who expect to teach Mathematics must take course 2 and should take courses 4 or 5.

Not all these courses will be given in any one year; those planning to take any of courses 103, 4 and 105 should consult the instructor before the close of the year preceding that in which they intend to take such course.

A major in Mathematics must include Mathematics 2. Courses 6 and 7 may not be counted toward a required major in Mathematics.

to Differential Calculus. *Credit: Algebra and Trigonometry, four semester hours; Analytics, four semester hours.* REQUIRED (CH., S. ED., G. S., PR. MED., S. S.) FULL YEAR AND (AG.) FIRST SEMESTER ONLY. FRESHMEN.

2. CALCULUS. A study of the Differential and Integral Calculus. *Three hours.* REQUIRED (CH., G. S.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: MATHEMATICS 1.
4. PROJECTIVE GEOMETRY. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: MATHEMATICS 1. (Offered in 1941-1942.)
5. MODERN GEOMETRY. *Three hours.* ELECTIVE. PREREQUISITE: MATHEMATICS 1. (Offered in 1940-1941.)
6. SOLID GEOMETRY. The usual theorems and constructions. Emphasis will be placed on original exercises and on the formal presentation of assigned work in class. *Three hours, first semester.* ELECTIVE.
7. ADVANCED ALGEBRA. A study of selected topics in Advanced Algebra. *Three hours, second semester.* ELECTIVE.
11. MATHEMATICS OF FINANCE.* *Four hours.* REQUIRED (BUS., SEC., CT.) FRESHMEN.
14. THE TEACHING OF ALGEBRA AND GEOMETRY. A course presenting the best modern practices in America and abroad in the teaching of Algebra and Geometry. It includes a discussion of such problems as the position of Algebra and Geometry in the curriculum, the reorganization of subject matter and the sequence of topics, aims in teaching and a consideration of investigations that have been conducted in the teaching of secondary mathematics. This course may be counted as a half course in Education by those taking two other courses in Education. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS WHO HAVE COMPLETED MATHEMATICS 2. THE PREVIOUS COMPLETION OF A COURSE IN EDUCATION IS DESIRABLE.
Professor Nicholson
103. ADVANCED CALCULUS. An advanced study of Differential and Integral Calculus with an introduction to Differential Equations. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: MATHEMATICS 2.
105. THEORY OF FUNCTIONS. *Three hours.* ELECTIVE TO SENIORS. PREREQUISITE: MATHEMATICS 103.

* May be taken for three hours credit by students having credit in Mathematics 1.

MINERALOGY

Professors Jacobs and Doll

- *1. This course aims to give familiarity with the more commonly occurring minerals, their composition, physical properties, crystalline form, and their importance as ores, gems, commercial products, or as constituents of rocks. Laboratory work in blow-piping, determination of unlabeled species, study of crystallography from models and natural crystals. Laboratory Fee \$3.00. *Three hours, first semester.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 OR 21.

†MUSIC

HISTORY AND THEORY OF MUSIC

Professor ‡Bennett, Acting Professor Kirby; Miss Marston, Mrs. Elder

1. THE APPRECIATION AND HISTORY OF MUSIC. A listener's course in music, aiming to acquaint the student especially with the choral music of the sixteenth century, with the compositions of Bach, Handel, Haydn, Mozart, Beethoven, and the romantic and modern composers, and with the musical customs and ideals of their times. The instruction includes lectures on the evolution of musical structure and style; illustrations on the phonograph and reproducing piano; class singing of choral and operatic music; reading of musical biography, history, and criticism; and assigned work with automatic instruments. Some ability to read music and some familiarity with the common musical terms are prerequisites. *Three hours.* REQUIRED (MUS. ED.) FRESHMEN. ELECTIVE TO OTHERS.
 3. ELEMENTARY HARMONY. The study of chords—how to arrange them effectively, how to connect them smoothly, and how to employ them to accompany a melody. Students write chords in musical notation, play them on the piano, and recognize them by ear. Melodies for harmonization include not only the usual text-book exercises, but also folk-songs and melodies from the works of the great composers. This course presupposes a musical ear capable
- * Some knowledge of general Chemistry is necessary, but students of ability who have not had Chemistry may make up the deficiency without charge by spending a few hours with the instructor.
- † A major in music must include Music 1, 3 and 4 or 5, the related minor being German, French, or Italian. See Index for Curriculum in Music Education.
- ‡ Absent on leave, 1939-1940.

of recognizing any tone of the scale if the first tone be given, and the ability to read and play on the piano music at least as difficult as an ordinary hymn. *Three hours.* REQUIRED (MUS. ED.) SOPHOMORES. ELECTIVE BY PERMISSION.

4. ADVANCED HARMONY AND HARMONIC ANALYSIS. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: MUSIC 3.
5. COUNTERPOINT. *Three hours.* ELECTIVE. PREREQUISITE: MUSIC 3. *Professor Bennett*
8. ELEMENTARY SIGHT-SINGING. A course in sight-singing, dictation and theory, designed primarily to precede or accompany Music 3, Elementary Harmony, but may be taken separately. *Two hours.* REQUIRED (MUS. ED.) FRESHMEN. ELECTIVE TO OTHERS.
9. ADVANCED SIGHT-SINGING. Advanced training in Sight-singing, dictation and theory designed to precede or accompany Music 4, Advanced Harmony, or Music 5, Counterpoint, but may be taken separately. *Two hours.* REQUIRED (MUS. ED.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: MUSIC 8. *Mrs. Elder*
10. SECONDARY SCHOOL MUSIC AND PRACTICE TEACHING. The psychology and principles of teaching applied to high school music. The course presents the organization, administration and content of the required and elective music courses in the senior high school, the project method and material for public performances, the formulation of courses of study including bibliography of available texts, a study of individual problems in various fields of study in public school music and observation and practice teaching. Students electing this course must have credit for or be enrolled in Music 1 and Music 8. *Three hours.* REQUIRED (MUS. ED.) SENIORS. ELECTIVE BY PERMISSION. *Miss Marston*
11. ORCHESTRATION AND CONDUCTING. A study of range, transposition, and characteristics of instruments; elementary instrumental technique; score reading; choral and orchestral literature; arranging; baton technique and practice conducting. *Three hours.* REQUIRED (MUS. ED.) SENIORS. ELECTIVE BY PERMISSION. PREREQUISITE: MUSIC 3; PREFERABLY ALSO MUSIC 4. *Professor Bennett and Mrs. Elder*
12. APPLIED MUSIC METHODS. Methods of teaching piano, organ, singing, or violin. *One hour.* REQUIRED (MUS. ED.) SENIORS. PREREQUISITE: THREE YEARS' INSTRUCTION IN CHOSEN INSTRUMENT AT THE UNIVERSITY, OR EQUIVALENT. *Miss Marston, Mrs. Bradish, Mrs. Elder*

106. CANON AND FUGUE. *Three hours.* ELECTIVE BY PERMISSION. PRE-REQUISITES: MUSIC 4 AND 5.
107. COMPOSITION. *Two hours.* ELECTIVE BY PERMISSION. PREREQUISITES: MUSIC 4 AND 5. *Professor Bennett*

PUBLIC SCHOOL MUSIC

Miss Marston and Mrs. Elder

335. PUBLIC SCHOOL MUSIC 1. This course is designed for students in Elementary Education and others who wish to prepare to teach music in schools. Emphasis is placed upon elementary theory, appreciation through rote songs, and methods for developing the sense of rhythm and melody. *Two hours.*
336. PUBLIC SCHOOL MUSIC 2. A continuation of the first course in School Music, including part-singing and methods for developing the sense of rhythm and melody. Required reading. *Two hours.*
345. ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING. The teaching of music in the primary and grammar grades. The topics include classroom management, definite lesson plans for each grade, discussion of the various methods in use, the psychology of school music teaching, tests and measurements in music education. Observation of the music in the grades in the Burlington school system and teaching of children under supervision. Students must have credit for or be enrolled in Music 1 and Music 8. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE (EL. ED.) JUNIORS AND SENIORS.

APPLIED MUSIC

PIANO AND ORGAN, *Miss Marston*; SINGING, *Mrs. Bradish*; VIOLIN, *Mrs. Elder*

The purpose of instruction in piano, organ, violin and singing in the University is to give the student, through actual performance, a more intimate appreciation of music than can be acquired through listening alone. To perform the best musical literature demands both technical and interpretative ability. The aim of the technical instruction is not only to give the student necessary dexterity, but also to achieve a critical understanding of the principles of instrumental and vocal technique.

Students may take either one or two half-hour lessons per week. The fees for instruction and use of organ and practice piano are given elsewhere in this Catalogue.

One semester hour of credit will be given for one private lesson in piano, organ, voice or violin, under a member of the department, and

five hours practice per week; and two semester hours of credit for two private lessons and ten hours practice per week, upon the recommendation of the instructor concerned and of the head of the department, and on condition that the instruction be accompanied or preceded by any of the following courses: Music 1, Appreciation and History of Music; Music 3, Elementary Harmony; Music 4, Advanced Harmony and Harmonic Analysis; Music 5, Counterpoint.

PHILOSOPHY

Professors Gifford and Dykhuizen

1. LOGIC. The purpose of the course is the development of a critical attitude and the detection of the characteristic fallacies of thought. The study includes the general principles and conditions of right thinking, the scientific enterprise as illustrating reflective thinking at its best, the correct methods of thinking as applied to the fields of ethics, law, history, metaphysics, aesthetics and religion. *Three hours, first semester.* ALTERNATE REQUIREMENT WITH PSYCHOLOGY 1 (CL., G. S., L. S. AND S. S.). ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.
2. ETHICS. A study of the historical development of man's moral consciousness as he rises from savagery and advances in civilization, followed by the more significant theories of the moral regulation of life. The course aims to develop an acceptable and coherent theory of personal conduct. *Three hours, second semester.* ALTERNATE REQUIREMENT WITH PSYCHOLOGY 1 (CL., G. S., L. S. AND S. S.). ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Dykhuizen

3. SOCIAL ETHICS. The various social maladjustments which arise in modern society are considered and there is a critical study of various practical ways of applying psychological knowledge and ethical principles to the regulation of social life in its various phases. Among the problems studied are those centering in the regulation of family life, industrial relations, voluntary associations, political activities, public health, delinquency and crime. The ideals of harmonious and progressive community and national life and of freely developed individuality are held constantly in mind and a scheme of adjustment sought. This course supplements Philosophy 2. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 3 OR PHILOSOPHY 2.

Professor Gifford

4. HISTORY OF ANCIENT AND MEDIAEVAL PHILOSOPHY. The rise and development of critical thinking among the Greeks are outlined and the relations of Greek to modern thought indicated. Somewhat detailed consideration is given the works of Plato, Aristotle and the Stoics. The more important mediæval systems are examined for the purpose of determining the chief characteristics of Scholastic Philosophy. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
5. HISTORY OF MODERN PHILOSOPHY. After an introductory study of Renaissance movements the development of philosophy from Descartes to Hegel is traced in detail. A rapid survey of nineteenth century tendencies concludes the course. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.
10. INTELLECTUAL BACKGROUND OF MODERN LIFE. Beginning with a study of the world-views of Plato and Aristotle, this course presents the various pictures of the world which have been influential in determining the world-view of today. Special emphasis is placed upon the part played by philosophy, science, and religion as determining factors in the life of today. *Three hours, first semester.* ELECTIVE TO SENIORS. *Professor Dykhuizen*
106. HISTORY OF RECENT PHILOSOPHY. A study of the more significant philosophical systems of the nineteenth century with reference to contemporary thought. Especial attention is given to Neo-Hegelianism, Naturalism, Pragmatism, and Neo-Realism. Selected readings. *Three hours, first semester.* ELECTIVE TO SENIORS. PRE-REQUISITE: PHILOSOPHY 4 AND 5.
107. PHILOSOPHICAL CRITICISM. An advanced and detailed study of some important historical system. The subject is chosen in consultation with the class. *Three hours, second semester.* ELECTIVE TO SENIORS BY PERMISSION.
108. HISTORY AND INTERPRETATION OF RELIGION. The course first presents a genetic and historical study of man's religious life. This survey of the religious beliefs and ceremonies of savagery and civilization is followed by a critical and constructive study of the higher religions. After the study of Brahmanism, Buddhism, Mazdeism, Islam and Judaism there is a final appreciation of the distinctive and essential elements of Christianity. *Three hours, first semester.* ELECTIVE TO SENIORS.
109. METAPHYSICS. Typical theories concerning the nature of truth and the nature of reality are outlined and criticized with the intent

of evoking a coherent theory of the essential character of reality and the significance of human life. *Three hours, second semester.*
ELECTIVE TO SENIORS. *Professor Gifford*

210. INTELLECTUAL BACKGROUND OF MODERN LIFE. A Graduate Course based upon Randall's "Making of the Modern Mind." Required of resident candidates for the degrees, Master of Arts, and Master of Science. *Three hours, first semester.* *Professor Dykhuizen*

PHYSICAL EDUCATION

For courses refer to the Index.

PHYSICS

Professors Holmes and Woodward; Messrs. Rooney, Walbridge and Allen

1. GENERAL PHYSICS. An elementary study of some of the experimental facts and fundamental principles of mechanics, properties of matter, heat, sound, magnetism, electricity and light. The purposes are to train the students in the scientific method of reasoning and to enable them to acquire a knowledge of their physical environment. A demonstration lecture is given each week for illustrating the subject-matter of the course. Two hours are devoted to quizzes and discussions. Four hours are for laboratory work. Each student performs about sixty experiments selected to develop skill in observation, to give practice in reasoning and to furnish a more intimate knowledge of phenomena and principles. Laboratory Fee \$5.00 per semester. *Five hours.* REQUIRED (CH., G. S., PR. MED., ENG.). ELECTIVE TO OTHERS. PREREQUISITE: MATHEMATICS 1.

*Professors Holmes and Woodward,
Messrs. Rooney, Walbridge and Allen*

101. MECHANICS. An intermediate course emphasizing fundamental physical principles. Topics such as the following are studied: force and Newton's laws with attention to frames of reference; statics of systems of particles and of rigid bodies; work done when the force is constant and when it is variable; the principle of virtual work; potential and kinetic energies; the principle of conservation of energy and the application of energy principles to conditions of equilibrium; equations of motion of a particle under constant forces; rotation of rigid bodies and application of the principle of conservation of momentum. It may be possible to introduce generalized coordinates, the principle of least action and some of the

modern developments in wave mechanics and quantum theory. Lecture demonstrations are shown. No Laboratory Fee. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1940-1941.)

Mr. Walbridge

102. **HEAT.** An intermediate study of experimental results and of descriptive theory together with some of the practical applications and the significance of the development of certain phases of modern physics. The following topics are included: thermal expansion; thermometry; calorimetry; theory of the conduction of heat leading to the Fourier wave equations; first and second laws of thermodynamics; kinetic theory of heat; laws of radiation and introduction to the quantum theory of radiation. Laboratory work includes temperature measurements, heats of combustion, mechanical equivalent of heat and radiation measurements with a sensitive thermopile. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1940-1941.)

Professor Woodward

103. **SOUND.** Not offered in 1940-1941.

104. **ELECTRICITY AND MAGNETISM.** An intermediate course in fundamental principles and their applications to electrical and to magnetic equipment. The following topics are studied: magnetic and electric fields; terrestrial magnetism; energy relations with electric currents; resistance; inductance; capacitance; induced currents; magnetization of iron; thermo-electric effects and phenomena in evacuated tubes. In the laboratory the class applies the general principles to magnetic and to electrical measurements such as current strength, potential difference, resistance, capacitance, inductance, temperature measurements with thermocouples and to experiments with vacuum tube circuits. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1941-1942.)

Professor Holmes

105. **X-RAYS AND ELECTRON THEORY.** The lectures include the description and theory of experiments which have resulted in modern conceptions of the electron and of experiments which resulted in the discovery of x-rays. Topics such as the following are considered: The production of x-rays in modern tubes and the general properties of x-rays; the absorption and scattering of x-rays; x-ray diffraction and crystal structure and x-ray spectra with appli-

cations to atomic structure. In the laboratory the class employs a 200 kilovolt Coolidge tube for wave length measurements using a crystal spectrometer as well as for experiments on absorption and on scattering. A 60 kilovolt Coolidge tube is used for the determination of crystal structures. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1941-1942.)

Mr. Walbridge

106. LIGHT. An intermediate course in geometrical optics, physical optics and spectroscopy. In geometrical optics the image equation for any reflecting or refracting surface and the equations in terms of cardinal planes for any centered optical system are derived. In physical optics the wave theory of light is used for the description of the phenomena of interference, diffraction and polarized light. In spectroscopy the spectral series relations are considered with their applications to modern theories of atomic structure. Laboratory work includes experiments with combinations of lenses and of mirrors, and experiments with polarized light. The spectra of some of the elements are investigated and photographed with the Rowland grating and with various types of spectrometers. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PHYSICS 1. (Offered in alternate years, 1941-1942.)

Professor Woodward

107. MODERN PHYSICS. A study of certain parts of physics which are either in the process of active formation or which have recently been developed. Such subjects are often classified as electron physics or atomic physics. Topics to be studied are: the conduction of electricity through gases and conclusions regarding the behaviors of atoms and of electrons; the emission of electrons from hot solids with applications to electron tubes; properties of alpha, beta and gamma rays; natural and artificial radioactivity; recently discovered parts of atoms known as neutrons and positrons; transmutation of the elements and recent work with cosmic rays. Laboratory work will include the ionization of gases by short wave radiation and by radio-active substances; measurements of resonance and ionization potentials; experiments on the photo-electric effect, radioactivity, and cosmic rays. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PHYSICS 1. (Offered in alternate years, 1940-1941).

Professor Holmes

108. **INTERMEDIATE LABORATORY COURSE.** A course for students who have selected physics as a major or as a minor subject. The student will do more intensive experimental work on some subject selected in consultation with the instructor than is possible in the courses above described and the student will work without detailed guidance. The course is intended to give experience in independent work where it will be necessary for the student to study the subject without the usual classroom and lecture assistance, to plan laboratory experiments and to prepare reports. Laboratory Fee \$5.00 per semester. *Three hours.* ELECTIVE TO SENIORS. PREREQUISITE: ANY ONE OF THE OTHER INTERMEDIATE COURSES.

Professor Holmes

GRADUATE COURSES

The general aim of the advanced courses is to start the student in the independent study of theoretical and experimental aspects of the phenomena of the chosen field. The requirements include assigned readings of important scientific papers with regular conferences for discussion, an assigned topic for elementary research and a thesis upon the topic at the conclusion of the research work. These courses are open only to graduate students and may be taken only by permission of the professor in charge of the course. The Seminar is required of all graduate students.

202. **ADVANCED COURSE IN SPECTROSCOPY.** *Professor Woodward*

203. **ADVANCED COURSE IN ELECTRICITY AND MAGNETISM.**

Professor Holmes

204. **SEMINAR.** The members of the staff and graduate students meet one hour each week for the study of contemporary advances in Physics, for discussion of subjects of especial interest to the members of the group and for reports on research problems currently being carried on in the department. *One hour.* REQUIRED OF ALL GRADUATE STUDENTS.

Professor Holmes

POLITICAL SCIENCE

Professors Carroll and Laatsch; Dr. Nuquist and Mr. Millikan

1. **AMERICAN GOVERNMENT.** A study of national, state, and local government in the United States. The aim of the course is to deal not only with the mechanism of government, but with its practical operation. The first semester is devoted to the national government, and the second to state and local government. *Three hours.* REQUIRED (S. S., BUS., SEC., CT.) FRESHMEN OR SOPHOMORES. ELECTIVE TO OTHERS.

Professors Carroll and Laatsch; Dr. Nuquist and Mr. Millikan

3. INTERNATIONAL RELATIONS. This course deals with the fundamental problems affecting the political relations of the states of the world with special attention given to such controlling factors as nationalism, imperialism, and militarism. It embraces a study of the war system, the reasons for its continuance and proposals for its abolition, and the efforts to develop an effective international organization, with special reference to the League of Nations. The foreign policies of selected states will be examined for the purpose of revealing the nature and cause of the conflict of national policies, causes of war, and present resources for international peace. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Laatsch

5. COMPARATIVE GOVERNMENT: THE BRITISH COMMONWEALTH OF NATIONS. A course presenting the development, organization, and function of the political institutions of Great Britain, the self-governing dominions, and the colonies and a comparison of these institutions with the political institutions of the other leading states of the world. The influence of England in shaping the governmental institutions of other countries. *Three hours, first semester.* ELECTIVE. PREREQUISITE: POLITICAL SCIENCE 1.

Professor Carroll

6. COMPARATIVE GOVERNMENT: CONTINENTAL EUROPE. A comparative study of the organization and function of the governmental institutions of the leading states of Continental Europe. An analysis of the influence of these institutions in shaping those of other states. Emphasis is laid upon types of government. *Three hours, second semester.* ELECTIVE. PREREQUISITE: POLITICAL SCIENCE 1.

Professor Carroll

7. VERMONT LOCAL GOVERNMENT. This course is a practical study of organization, function, principles, and procedure in the administration of local government in Vermont. Such problems as town finance, land planning, state control, town reporting, etc., are treated in detail. The significance of Vermont institutions in the preservation of democracy is emphasized. *Three hours, first semester.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Dr. Nuquist

8. MUNICIPAL GOVERNMENT AND ADMINISTRATION. A study of basic problems and significant developments in the field of municipal government. Subjects considered are the social and economic causes and consequences of city growth, the relation of urban government to modern civilization, the law of municipal corporations, existing forms of city government, law enforcement, police and fire pro-

tection, traffic, sanitation, health protection, zoning, metropolitan planning, housing, schools, parks and present financial difficulties. *Three hours, first semester.* ELECTIVE. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. (Offered in alternate years, 1941-1942.)
Dr. Nuquist

104. THE AMERICAN CONSTITUTION. A study of the interpretation and development of the Constitution of the United States through the judicial process, as evidenced in leading decisions of state and federal courts. An analysis of the evolution and significance of leading constitutional doctrines and their influence upon the governmental process in the United States. Particularly recommended to students of the history and government of the United States and to prospective law students. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES POLITICAL SCIENCE 1.
Mr. Millikan
106. FOREIGN RELATIONS OF THE UNITED STATES. An analysis of the evolution of American foreign policy from 1776 to the present. Leading American policies, such as, territorial expansion, Monroe Doctrine, Caribbean policy, Far Eastern policy, Pan-Americanism, international arbitration, and status of the United States as a world power, are studied and compared. Attention is given to the organization set up for, and the methods used in, handling American foreign relations. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED.
Mr. Millikan
107. FAR EASTERN POLITICS. A study of the races, the civilization, and the political, economic, and social development of the Far East. Attention is given to the activity and interests of European nations and the United States in this region and to the internal and external growth of the states located in this area. *Three hours, second semester.* ELECTIVE. (Offered in alternate years, 1941-1942.)
Dr. Nuquist
111. POLITICAL PARTIES. This course is intended to familiarize the student with the fundamental problems of popular control of government, including the nomination and election of candidates to public office, the forces which determine attitudes of the people toward public questions, non-voting, the short ballot, suffrage reform, the organization and function of political parties, etc. An effort is made to give the student fundamental principles which may be used as a basis for the solution of political problems. *Three hours, second semester.* ELECTIVE. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED.
Professor Carroll

112. HISTORY OF POLITICAL THOUGHT. This course traces the development of political theories from Socrates to the theorists of the present day. An effort is made to follow particularly the origin and growth of ideas of government which are now recognized as important. *Three hours, first semester. ELECTIVE.*
Professor Carroll
114. INTERNATIONAL LAW. A study of the legal basis of international relations, including the nature and development of international law, the legal attributes, rights and obligations of states, treaties, pacific methods of settling international disputes, the law of land and naval warfare, and neutral rights and obligations. *Three hours. ELECTIVE TO JUNIORS AND SENIORS. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. (Offered in alternate years, 1940-1941.)*
Dr. Nuquist
115. PUBLIC ADMINISTRATION. A study of the nature and development of administrative agencies and services in national, state, and local governments. Particular attention is given to the new agencies which exercise quasi-legislative and quasi-judicial functions. Budget, merit, purchasing, and accounting systems are analyzed and evaluated with reference to the public interest. *Three hours. PREREQUISITE: POLITICAL SCIENCE 1.*
Dr. Nuquist

FOREIGN SERVICE EXAMINATIONS

The Federal Act of May 24, 1924, known as the Rogers Act, effective July 1, 1924, for the improvement and reorganization of the Foreign Service, provides that new appointments to the service shall be to the grade of Foreign Service Officer, unclassified, after examination, and that appointments to the higher grades shall be made from this unclassified group.

The examination under this Act is in two parts, one written and the other oral. The written examination includes the following subjects: Modern languages (either French, German, or Spanish is required); elements of international, commercial, and maritime law; political and commercial geography; the natural, industrial, and commercial resources and commerce of the United States; American history, government, and institutions; history since 1850 of Europe, Latin America, and the Far East; elements of political economy; and arithmetic as used in commercial statistics, tariff calculations, exchange, and simple accounting. Candidates are also rated in English, composition, grammar, punctuation, spelling, and penmanship, as shown by their replies to questions in the written examination.

The oral examination is designed to ascertain "the physical, mental, and temperamental qualifications of candidates for the proper performance of the duties of the Foreign Service; their character, ability, address, judgment, and fitness, general education, culture, contemporary information, experience and business ability."

Detailed information as to the time and place of holding examinations, notifications to prospective candidates, etc., will be furnished by the Department of State on application.

The courses offered in this department which should be especially valuable as a preparation for the Foreign Service examination are as follows: Political Science 1 (American Government); Political Science 5 and 6 (Comparative Government); Political Science 104 (The American Constitution); Political Science 106 (Foreign Relations of the United States); Political Science 107 (Far Eastern Politics); Political Science 114 (International Law).

Any other course offered in this department should be decidedly helpful. Students who are interested should consult the heads of other departments that offer courses falling within the general scope of the examination to determine what additional courses offered in the University should be valuable as a preparation for the examination.

PSYCHOLOGY

Professors Metcalf, Gifford and Collier; Dr. Riggs

1. GENERAL PSYCHOLOGY. An introductory course covering the entire field. While all branches of the subject are treated, emphasis is upon the psychology of the normal, adult human being. *Three hours.* REQUIRED (EC., H. E., AND ED.). ALTERNATE REQUIREMENT (CL., L. S., S. S., AND G. S.). ELECTIVE TO OTHER SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE TO OTHER COURSES IN PSYCHOLOGY. *Professors Metcalf and Collier; Dr. Riggs*
2. APPLIED PSYCHOLOGY. Following an introduction to the simpler psychometric techniques and their special applications, there will be presented a critical review of psychological principles and experimental results which may be applied to such problems as vocational guidance, personnel selections, industrial management, fatigue, salesmanship, advertising, and personal, mental and physical efficiency. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Collier*

3. **SOCIAL PSYCHOLOGY.** A study of the relation of human traits and impulses to social tendencies and developments. The course will consider the various ways in which the growth and achievement of the individual are affected by the social environment and group activities; the interaction of individuals in crowds, clubs, parties and other groupings; and the manner in which individuals and smaller groups influence the life and development of communities. This course is supplemented by Philosophy 3 in the second semester. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Gifford*
4. **GENETIC PSYCHOLOGY.** A study of mental processes from the point of view of their development. The progress from simpler to more complex forms of behavior in animal life is studied in connection with the mental development of the human individual from birth to maturity. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.
5. **ABNORMAL PSYCHOLOGY.** A study of the abnormal mental processes occurring in insanity, criminality, feeble-mindedness, "shell shock," aphasia, and the relationship which these states bear to normal mental states. The views of the leading psycho-analysts will be critically considered. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*
7. **AESTHETICS.** A study of the psychological aspects of the reaction of the individual to the beautiful in nature and in art. The history of the subject is first considered, then modern theories and the results of experimental work in this field are discussed. An attempt is made to develop a consistent psychological interpretation of the aesthetic attitude. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*
106. **EXPERIMENTAL PSYCHOLOGY.** A course in which the student is given an opportunity to perform experiments basic to the factual material of modern psychology. Emphasis is placed upon the technique of experimentation and the evaluation of experimental data. Topics covered include sensory, perceptual, attentive, emotional, learning and reaction processes. Each student may conduct a special experiment of his own toward the end of the course. *Three hours. (Two two-hour laboratory periods and a one-hour lecture period.)* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Dr. Riggs*

ROMANCE LANGUAGES

FRENCH

Professors Myrick, DeForest, Doane and Towne; Mr. Slack

1. ELEMENTARY COURSE. A course in grammar, pronunciation, composition and translation, dictations and use of the spoken language for beginners and students who present less than two years of preparatory French. Students taking this course must continue with French 3 the following year. *Three hours.* ELECTIVE TO FRESHMEN, SOPHOMORES AND JUNIORS. *Mr. Slack*
3. INTERMEDIATE COURSE. A course in French Prose and Poetry, grammar, composition and translation, collateral reading, dictations and conversational exercises. The class work is conducted in French. *Three hours.* ELECTIVE TO ALL CLASSES. PREREQUISITE: FRENCH 1 OR TWO YEARS OF PREPARATORY FRENCH.

Professors Doane and Towne; Mr. Slack

4. FRENCH LITERATURE OF THE NINETEENTH CENTURY. An advanced course including lectures, recitations, collateral reading, reports and assignments in advanced composition. The lectures deal with the growth of Romanticism and the reactions to Realism, Naturalism and present-day tendencies. The course is conducted in French. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: FRENCH 3.

Professors Myrick, Doane and Towne

105. FRENCH LITERATURE IN THE NINETEENTH CENTURY FROM THE ROMANTIC SCHOOL TO 1900. The course consists of lectures, outside reading and reports. The class work is conducted in French and a ready reading knowledge of French is presumed. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Rotating course offered 1942-1943.) *Professor Myrick*
106. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. The course includes readings and recitations, and a series of lectures on the development of classic literature. The influence of Society, the Academy and the Church on the French literature of this period is emphasized. The romance, poetry and drama are read and studied. Collateral readings are assigned and the reports are conducted in French. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Rotating course offered 1940-1941.)

Professor Myrick

107. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. A course consisting of selected readings, lectures on the growth of liberalism, the "return to nature," the drama, and the novel. Voltaire, Rousseau and their influence on modern thought are emphasized. Collateral readings are assigned and the reports are conducted in French. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Rotating course offered 1941-1942.) *Professor Myrick*
108. FRENCH CONVERSATION AND COMPOSITION. An advanced course in conversation including lessons in phonetics. Exercises in advanced composition continue throughout the year. This course is required of those who expect to be recommended as teachers of French. *Three hours.* ELECTIVE BY PERMISSION. PREREQUISITE: HIGH STANDING CREDIT IN FRENCH 4.
Professors Myrick and DeForest
109. FRENCH READINGS IN THE FOURTEENTH AND FIFTEENTH CENTURIES. A course based on readings from Joinville, Commynes, Froissart, Villon, and other contemporary writers. Outside reading and reports are required. *Two hours, first semester.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
110. THE FRENCH LITERATURE OF THE SIXTEENTH CENTURY. A course based on readings from Montaigne, Rabelais, the Pléiade Poets, and other contemporary writers. Outside reading and reports are required. *Two hours, second semester.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
111. OLD FRENCH. A series of lectures on Old French phonology and morphology and selected readings from the oldest texts. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS BY PERMISSION. PREREQUISITE: COURSES IN ADVANCED FRENCH AND LATIN 1.
Professor Myrick
112. ADVANCED COMPOSITION AND CONVERSATION. The course includes the translation into French of difficult modern English prose, free composition and subjects assigned or chosen with discussion of questions of rhetoric and style. Practice in advanced conversation continues throughout the year. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
Professors Myrick and DeForest
113. MODERN FRENCH DRAMA. Plays by Scribe, Dumas fils, Augier, Becque, Brieux, Hervieu, Lavedan, and Maeterlinck are read. The history of the modern drama in France is traced briefly, and there is outside reading on the drama. The classroom work includes written summaries of portions of the plays read, discussion of

the text assigned, and lectures on dramatic technique and literary history. The course is conducted in French. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor DeForest*

200. ADVANCED COURSES may be taken by graduate students, and resident candidates for the degree of Master of Arts, for whom further opportunities for independent work will be provided. Qualified graduate students majoring in French may be permitted to take advanced courses in Italian or Spanish. *Professor Myrick*

ITALIAN

Professors Myrick and DeForest

1. ELEMENTARY ITALIAN. A beginner's course in grammar and composition with frequent drill in pronunciation, dictation and practice in the spoken language, composition, daily reading of standard modern Italian authors. Enrollment is restricted to students who have had good standing in other language courses. *Three hours.* ELECTIVE BY PERMISSION.
2. ADVANCED ITALIAN. The readings in this course include Petrarca, *Rime*; Tasso, *La Gerusalemme Liberata*; and selected cantos from Dante's *La Divina Commedia*. *Two hours.* ELECTIVE. PREREQUISITE: ITALIAN 1.

SPANISH

Professors Myrick, DeForest, Doane and Towne; Mr. Slack

1. ELEMENTARY SPANISH. A beginner's course including grammar, composition and translation with frequent practice in pronunciation, dictations, and use of the spoken language. If possible, at least a few of the more famous chapters of Cervantes' *Don Quijote* will be read toward the end of the year. Students taking this course must continue with Spanish 2. *Three hours.* ELECTIVE. *Professors Doane and Towne; Mr. Slack*
2. ADVANCED SPANISH. A course consisting of readings from authors such as Becquer, Pardo Bazán, Taboada, Galdós, Pereda, Blasco-Ibáñez. Advanced composition, dictation and conversational practice are included. *Three hours.* ELECTIVE. PREREQUISITE: SPANISH 1 OR THE EQUIVALENT. *Professors DeForest and Towne*
103. SPANISH LITERATURE IN THE NINETEENTH CENTURY. A course comprising readings of selected texts illustrative of the Romantic, Realist and Naturalist schools with recitations, collateral reading, reports and advanced composition. *Three hours.* ELECTIVE TO

SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: A GRADE OF NOT LESS THAN C IN SPANISH 2. *Professor DeForest*

104. SPANISH CONVERSATION AND COMPOSITION. A course in conversation based on current topics and a manual, including lessons in phonetics, intonation and supplemented by training in advanced composition. The course is conducted in Spanish and is required of those who expect to be recommended to teach the subject. *Three hours.* ELECTIVE TO JUNIORS, SENIORS AND GRADUATE STUDENTS WHO HAVE HIGH STANDING IN SPANISH 103. *Professor DeForest*
105. OLD SPANISH. An introduction to Spanish literature from the beginnings to the end of the mediaeval period with readings from early texts. Study of the development of sounds, forms and syntax from vulgar Latin into Spanish. *Two hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. PREREQUISITES: HIGH STANDING IN ADVANCED COUSES IN SPANISH AND LATIN 1. *Professor Myrick*
200. The department offers advanced courses in Old Spanish and Spanish Literature for graduate credit to resident candidates for the Master's degree. Qualified graduate students majoring in Spanish may be permitted to take advanced courses in French or Italian. *Professor Myrick*

SOCIOLOGY

Professor Gifford

1. THE DEVELOPMENT OF SOCIETY. The early life of man and the customs and culture achievements characteristic of the ruder levels of social life are studied the first half year. Attention is directed upon the physiographic, the social and the psychological factors which shape or modify community development and the growth of culture.

Contemporary civilization in certain of its aspects is studied the second half year. The tendencies of modern civilized society, the aims which should guide, and certain outstanding problems of regulation and control are taken up in some detail. Effort is made to detect those factors and conditions upon which depend the ordered stability and the liberal life of communities and state. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professor Gifford

2. SOCIAL PSYCHOLOGY. (See Psychology 3.)
3. SOCIAL ETHICS. (See Philosophy 3.)

SPANISH

For courses in Spanish see Romance Languages.

*ZOOLOGY

*Professors Perkins, Moody, Rowell; Mrs. Loudon; Mr. Levine;
Mr. Perry and Dr. Tartar*

1. GENERAL ZOOLOGY FOR PRE-MEDICAL STUDENTS. A survey of the principal phyla of the animal kingdom, combining a study of type forms and the evolution of systems. The course also embraces a study of the fundamentals of physiology, embryology, heredity and evolution. (See Botany 1) Laboratory Fee \$4.00. *Four hours, second semester.* REQUIRED (PRE-MED.) FRESHMEN.
Professor Rowell; Dr. Tartar
2. GENERAL ZOOLOGY. The course presents a broad survey of the principles of animal biology, including structure, physiology, heredity, evolution, and acquaintance with the main types of invertebrate and vertebrate animals. Laboratory Fee \$4.00 per semester. *Four hours.* ELECTIVE TO ALL CLASSES.
Professor Moody; Mrs. Loudon, Mr. Levine
5. ANIMAL ECOLOGY. A course treating of the distribution of animals and their relations to one another and to their environment, including association, seasonal changes and behavior. The field study is supplemented by experiments, lectures and laboratory work. Laboratory Fee \$2.50 per semester. *Three hours.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR THE EQUIVALENT. *Dr. Tartar*
6. COMPARATIVE ANATOMY. The course is based upon dissection of vertebrate types and emphasis is placed upon the evolution of the systems of organs. The first semester is devoted to the dissection of the lower vertebrates; the second to mammalian anatomy. The comparative viewpoint is maintained throughout. Laboratory Fee \$5.00 per semester. *Four hours.* ELECTIVE. *Professor Moody*
7. VERTEBRATE EMBRYOLOGY. A detailed study of the development of the frog and the chick. These forms are used as a point of departure for a discussion of the fundamental problems of development in the vertebrates. Laboratory Fee \$4.00. *Four hours, first semester.* PREREQUISITE: A COURSE IN GENERAL ZOOLOGY.
Professor Rowell; Dr. Tartar

* Students who major in Zoology are required to enroll in Zoology 111 during the Senior year. For other courses in Zoology refer to Index.

8. ENTOMOLOGY. An elementary study of insects of economic importance in Vermont with recitation, laboratory and field trips. Laboratory Fee \$2.50. *Two hours, second semester.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR 4 OR THE EQUIVALENT. (Offered in alternate years, 1939-1940.) Dr. Tartar
9. EVOLUTION. A lecture course with assigned readings on evolution, distribution, adaptation, evidences, animal behavior, origin of intelligence and habits. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. Professor Perkins
10. HEREDITY. A study of the mechanism of heredity, heritable and non-heritable characteristics, the laws of human inheritance, eugenics, using material gathered by the Eugenics Survey of Vermont. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. Professor Perkins
12. EUGENICS. A course of lectures and discussions of practical applications of the principles of race betterment, including conservation of the family, and population problems such as migration, birth rates and racial mixtures. Recommended for general cultural education and especially to those interested in any phase of social work, including teaching. *Three hours, second semester.* PREREQUISITE: ZOOLOGY 10. Professor Perkins
14. EDUCATIONAL BIOLOGY. This course presents a study of the foundations of general zoology, by lecture, readings and demonstrations. Field trips acquaint the student with the habitat and methods of collecting the animals used. Part of the course consists of student projects. Zoology 2 is recommended to those intending to do further work in Zoology. Laboratory Fee \$2.00. *Two hours. (One lecture and one laboratory supplementing Botany 14.)* OPEN TO EDUCATION STUDENTS ONLY. Professor Rowell
15. PHYSIOLOGY. A survey course in general and comparative physiology. Consideration is given the nature of protoplasm, permeability, bio-electric phenomena, and enzyme action. Principles illustrated above are applied to studies of locomotion, nerve conduction, sense organs, digestion, respiration, and renal function in animals. Laboratory fee \$2.50. *Three hours, second semester.* ELECTIVE PREREQUISITE: ZOOLOGY 1 OR THE EQUIVALENT. Mr. Perry
106. PRIMATE ANATOMY. A detailed dissection of the Rhesus monkey. Recommended to candidates for **Senior Honors** in Zoology. Labo-

ratory Fee announced each year. *Two hours.* ELECTIVE BY PERMISSION. PREREQUISITE: ZOOLOGY 6 OR ITS EQUIVALENT.

Professor Moody

111. SEMINAR. Papers and discussion on the more important topics in zoological research. *One hour.* FOR MEMBERS OF THE STAFF IN ZOOLOGY AND REQUIRED IN THE SENIOR YEAR OF ALL GRADUATE AND UNDERGRADUATE STUDENTS MAJORING IN ZOOLOGY.

EUGENICS SURVEY OF VERMONT

Conducted under the auspices of the Department of Zoology

The Eugenics Survey, begun in 1925, is an important adjunct to Zoology 10 and 12. The Director, with the Advisory Committee of twelve and an office staff, has made studies on various matters relating to possible means of perpetuating the best qualities inherent in the families of Vermont. Many families of all types have had pedigree charts made and several thousand index cards and case histories are on file. These are available for use by social workers and research students and furnish valuable illustrative material for class work in heredity and eugenics.

Several annual reports have been published and may be had on request. The work of the past three years is described in a volume entitled "We Americans" which deals with the interracial problems of Burlington.

The office of the Survey has been closed, but the organization itself continues.

The College of Engineering

CIVIL ENGINEERING

Dean Eckhard, Professors Puffer, Butterfield, Aldrich and Mr. Lynde

1. SURVEYING. By lectures, recitations and field work this course covers the theory, construction, use and adjustments of instruments; the theory of land surveying and leveling; methods of computing areas; the elements of city and topographic surveying. *Five hours, first semester* (C. E.) SOPHOMORES. *Professor Aldrich*
2. ROUTE SURVEYING. The principal topics presented are reconnaissance, preliminary location, construction and maintenance surveys for railroads, highways, pipe lines, transmission lines, canals; the theory of simple, compound, and reverse curves; turn-outs, cross-

overs, switches, vertical curves and the spiral easement; theory and methods of computing earthwork. The instruction includes lectures, recitations and problem work. *Three hours, second semester (C. E.) SOPHOMORES.* *Professor Aldrich*

3. **ENGINEERING CAMP.** Field practice in land and topographic surveying, leveling, triangulation and base-line measurement. Camp Fee \$15.00. *Four weeks at close of second college year; two semester hours credit (C. E.).*

Professors Puffer, Aldrich and Mr. Lynde

4. **GRAPHIC STATICS.** The determination of the dead and live load stresses in roof and bridge trusses by means of the application of the equilibrium polygon. *Three hours, first semester (C. E.) JUNIORS.* *Dean Eckhard*

5. **BRIDGE STRESSES.** The analytical determination of stresses in simple framed structures under dead and live loads; the theories of deflection and least work; the history of truss development; numerous problems exemplifying the theory. *Three hours, second semester (C. E.) JUNIORS.* *Dean Eckhard*

6. **MAPPING.** Computation and plotting of the work done at Engineering camp. *Two hours, first semester (C. E.) JUNIORS.* *Professor Aldrich*

7. **RAILROAD ENGINEERING.** A study of track and other railroad structures, signaling, yards and terminals, the locomotive, train resistance and operation, including the economic theory of railroad location, construction and operation. *Two hours, first semester. ELECTIVE, JUNIORS AND SENIORS. (Not given for less than five students.)* *Professor Aldrich*

8. **ENGINEERING MATERIALS.** A descriptive course, covering the making, shaping, treating and properties of iron and steels; non-ferrous metals and alloys; Portland and other cements, concrete, clay products, wood and other materials used by engineers. Lectures and demonstrations. *Two hours, second semester (ENG.) FRESHMEN.* *Professor Puffer*

9. **MATERIALS LABORATORY.** Testing of Portland cement, aggregates, concrete, wood and steel. Laboratory Fee \$5.00. *Two hours, second semester (C. E.) SENIORS.* *Professor Aldrich*

10. **ENGINEERING CAMP.** Field practice in railroad and highway surveying. Camp Fee \$15.00. *Four weeks at close of third college year (C. E.). Two semester hours credit.*

Professors Puffer and Aldrich

11. **SANITARY ENGINEERING.** A study of water supplies; methods of collection, storage, purification and distribution of water; relation of disease to water supply; examination of water; construction, operation and maintenance of water works. *Three hours, first semester (C. E.) SENIORS.* Professor Puffer
12. **SANITARY ENGINEERING.** A study of the methods of design, construction and operation of sewer systems and sewage treatment plants; the problems of disposal; the implications in relation to sanitation and public health. *Three hours, second semester (C. E.) SENIORS.* Professor Puffer
13. **BRIDGE DESIGN.** The design of a roof truss, plate girder and railroad truss bridge; the making of stress sheets, order and shipping bills, estimates of weight and shop drawings of the structures designed. Special attention is given to those points in manufacture, shop work and shipment which have a bearing on the economical design. The methods used conform to the best modern practice. A careful study is made of standard specifications. *Three hours, first and second semester (C. E.) SENIORS.* Dean Eckbard
14. **MASONRY CONSTRUCTION.** The design of dams, retaining walls, concrete bridges and other masonry structures by graphical and analytical methods. The instruction is given by lectures and drafting room work. *Three hours, second semester (C. E.) SENIORS.* PREREQUISITE: C. E. 16. Professor Puffer
15. **ENGINEERING CONSTRUCTION.** A course dealing with the foundations of structures; timber, concrete and steel piles; cofferdams, caissons and piers; footings, grillages and underpinning; bearing power of soils; concluding with a study of methods of tunneling in various materials. *Two hours, second semester (C. E.) SENIORS.* Professor Puffer
16. **REINFORCED CONCRETE.** The theory and design of reinforced concrete structures, the theories of beam flexure, the derivation of formulas and the design of slabs, girders, columns and special structures of reinforced concrete. *Two hours, second semester (C. E.) JUNIORS.* Mr. Lynde
18. **HYDRAULICS.** A study of pressure of liquids on submerged surfaces; stresses in pipes; stability of floating bodies; flow through orifices, tubes, pipes and over weirs; flow in conduits, canals and natural streams; meters and water measurement; hydrodynamics and hydraulic machinery. *Three hours, first semester (ENG.) SENIORS.* Professor Puffer

19. **HYDRAULICS LABORATORY.** An experimental and field course in hydraulic measurements, including stream flow; tests of meters, weirs and orifices; friction loss in pipes; tests of pumps, water wheels and other hydraulic machinery. Laboratory Fee \$2.50. *One hour, first semester (ENG.) SENIORS.* *Professor Aldrich*

20. **HIGHWAY ENGINEERING.** A study of the general principles of design, construction and maintenance of modern types of highways and street pavements, including methods of highway administration and finance. *Three hours, second semester (C. E.) SENIORS.* *Professor Aldrich*

21. **WATER POWER ENGINEERING.** The study of precipitation and run-off; stream flow and storage, and their effect on power development; theory of the water wheel; power plant design and the valuation of water power. The class visits operating power plants. *Three hours, second semester. PREREQUISITE: C. E. 18. ELECTIVE (ENG.) SENIORS.* *Professor Puffer*

22. **GEODESY.** A course in practical astronomy, including the derivation of the fundamental formulas of spherical trigonometry and their applications to the celestial sphere. Emphasis is placed on the determination of latitude, time and azimuth as computed from field observations made with the sextant and alt-azimuth. *Three hours, first semester. ELECTIVE TO STUDENTS HAVING CREDIT IN PLANE TRIGONOMETRY.* *Professor Butterfield*

23. **GEODESY.** A course in the theory and field work of triangulation, trigonometric and precise leveling, base line measurements and computations. *Three hours, second semester. ELECTIVE (C. E.) JUNIORS AND SENIORS. PREREQUISITE: PLANE TRIGONOMETRY.* *Professor Butterfield*

24. **SURVEYING.** A practical course in the care, use, and adjustments of surveying instruments with field work, computations, and recitations. *Two hours, first semester. ELECTIVE (M. E. AND E. E.) JUNIORS AND SENIORS. (Not given for less than five students.)* *Professor Aldrich*

25. **ADVANCED GEODESY.** A study of the theory of least squares and problems of adjustment of observations, including position computations, and the derivation of geodetic formulas. *Three hours. ELECTIVE (C. E.) SENIORS.* *Professor Butterfield*

ELECTRICAL ENGINEERING

Professors McKee, Buchanan, Williams and Shorey

20. ELEMENTS OF ELECTRICAL ENGINEERING. A study of the laws of electric and magnetic circuits and their application to Electrical Engineering. *Five hours, first semester* (E. E.) SOPHOMORES. PREREQUISITE: CREDIT OR ENROLLMENT IN MATHEMATICS-MECHANICS 14.
21. DIRECT CURRENT MACHINES. A course presenting the characteristics of direct current machines. *Two hours, second semester* (E. E.) SOPHOMORES. PREREQUISITE: E. E. 20.
30. ELECTRONICS. A study of the theory, characteristics and engineering application of electron tubes. *Three hours, second semester* (E. E.) JUNIORS. PREREQUISITES: PHYSICS 1 AND CREDIT OR ENROLLMENT IN E. E. 35 OR CREDIT IN E. E. 37.
31. DIRECT CURRENT MACHINES. A continuation of E. E. 21. *Four hours, first semester* (E. E.) JUNIORS. PREREQUISITE: E. E. 21.
32. ELECTRICAL LABORATORY. A course in direct current measurements and circuits and experimental determination of the characteristics of direct current machines. Laboratory Fee \$5.00. *Two hours, first semester* (E. E.) JUNIORS. PREREQUISITE: CREDIT OR ENROLLMENT IN E. E. 31.
33. ELECTRICAL LABORATORY. A continuation of E. E. 32 and including the experimental determination of the properties of alternating current circuits. Laboratory Fee \$5.00. *Two hours, second semester* (E. E.) JUNIORS. PREREQUISITES: E. E. 32 AND CREDIT OR ENROLLMENT IN E. E. 35.
34. ALTERNATING CURRENT THEORY. A mathematical and graphical analysis of current and voltage relationships in single phase and poly-phase circuits. *Three hours, first semester* (E. E.) JUNIORS. PREREQUISITES: PHYSICS 1, MATHEMATICS-MECHANICS 14 AND E. E. 20.
35. ALTERNATING CURRENT THEORY. A continuation of E. E. 34. *Three hours, second semester* (E. E.) JUNIORS. PREREQUISITE: E. E. 34.
36. DIRECT CURRENT CIRCUITS AND MACHINES. The laws of electric and magnetic circuits and the characteristics of direct current machines. Laboratory Fee \$2.50. *Four hours, first semester* (C. E. AND M. E.) JUNIORS. PREREQUISITES: MATHEMATICS-MECHANICS 14 AND PHYSICS 1.

37. ALTERNATING CURRENT CIRCUITS AND MACHINES. The laws of single phase and polyphase alternating current circuits and the characteristics of alternating current machines. Laboratory Fee \$2.50. *Four hours, second semester* (C. E. AND M. E.) JUNIORS. PREREQUISITE: E. E. 36.
40. ELECTRONICS LABORATORY. The experimental determination of the characteristics of electron tubes and a study of the circuits commonly used in the application of electronic devices. Laboratory Fee \$2.50. *One hour, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 30.
41. POWER TRANSMISSION. A study of the design, construction and operation of transmission and distribution systems. *Three hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
42. ELECTRICAL LABORATORY. A course in the experimental determination of the characteristics of alternating current circuits and machines. Laboratory Fee \$5.00. *Two hours, first semester* (E. E.) SENIORS. PREREQUISITES: E. E. 35 AND CREDIT OR ENROLLMENT IN E. E. 44.
43. ELECTRICAL LABORATORY. A continuation of E. E. 42. Laboratory Fee \$5.00. *Two hours, second semester* (E. E.) SENIORS. PREREQUISITES: E. E. 42 AND CREDIT OR ENROLLMENT IN E. E. 45.
44. ALTERNATING CURRENT MACHINES. A study of the principles of design, construction and operation of alternating current machines. *Three hours, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
45. ALTERNATING CURRENT MACHINES. A continuation of E. E. 44. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 44.
46. WIRE COMMUNICATION. Network theory and the fundamental principles of wire communication systems. Laboratory Fee \$2.50. *Three hours, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
47. WIRE COMMUNICATION. A continuation of E. E. 46. Laboratory Fee \$2.50. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 46.
48. RADIO COMMUNICATION. The fundamental principles of radio communication systems. Laboratory Fee \$2.50. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
49. POWER STATIONS. A course presenting the Electrical Engineering features of steam, water and oil engine power plants. *Three hours, second semester*, SENIORS, ELECTIVE. PREREQUISITES: ENROLLMENT IN E. E. 45 OR CREDIT IN E. E. 37.

140. TRANSIENT PHENOMENA. A mathematical development of common voltage and current transients with experimental check by means of the oscillograph. Laboratory Fee \$2.50. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
141. SPECIAL TOPICS. Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines or systems. *Three hours, first semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
142. SPECIAL TOPICS. A continuation of E. E. 141. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
143. ADVANCED COMMUNICATION ENGINEERING. A study of the theory of circuits and networks used for communication systems. Laboratory Fee \$2.50. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 46.

GENERAL ENGINEERING

1. ENGINEERING. An introduction to the practice of engineering by lectures, demonstrations and inspection trips. *Two hours*, REQUIRED OF ALL FRESHMAN ENGINEERS.
Professors McKee, Puffer and Daasch
2. ENGINEERING ECONOMICS. An introductory course in the principles of Economics and business organization adapted to the training of engineers. *Three hours* (ENG.) JUNIORS. *Professor Pond*
3. CONTRACTS AND ENGINEERING RELATIONS. The business and professional relations of the engineer, together with the study of engineering contracts and specifications, and the laws relating to their writing, interpretation and enforcement. *Two hours, first semester* (ENG.) SENIORS. *Professor Puffer*

*MATHEMATICS AND MECHANICS

Professors Butterfield, Bullard and Millington

- A. INTERMEDIATE ALGEBRA. A review course for those not sufficiently prepared engineering mathematics of the freshman year. No Fee. NO DEGREE CREDIT.

* The course descriptions in this department are only incomplete outlines of the actual content.

- B. **SOLID GEOMETRY.** A course required for those who do not present solid geometry as an entrance credit. Fee \$10.00. *Two hours, first semester* (ENG.) FRESHMEN. NO DEGREE CREDIT.

Professor Millington

11. **ADVANCED ALGEBRA.** The topics studied are theory of equations, determinants, permutations and combinations, probability and chance; imaginary and complex numbers; logarithmic and exponential equations, interest and annuities. *Two hours, first semester* (ENG.) FRESHMEN. *Professors Butterfield and Millington*

12. †**PLANE TRIGONOMETRY.** The topics studied are logarithms, development and use of fundamental formulas of analytical trigonometry, solution of the right and oblique plane triangles and the practical applications of trigonometry. *Two hours, first semester* (ENG.) FRESHMEN. *Professors Butterfield and Millington*

13. **PLANE ANALYTICAL GEOMETRY.** The topics studied are systems of coordinates and their transformations, rectilinear and polar equations of the straight line, the conic sections, and higher plane curves. *Four hours, second semester* (ENG.) FRESHMEN.

Professors Butterfield and Millington

14. **DIFFERENTIAL AND INTEGRAL CALCULUS.** In Differential and Integral Calculus the topics included are rates, maxima and minima, series, expansion of functions, indeterminate forms, partial and total derivatives; the standard forms of integration and their application to engineering and physical problems, in obtaining areas, surfaces, volumes, centroids, and moments of inertia. The study of planes, lines and quadric surfaces in solid analytic geometry is also included. *Four hours, each semester* (ENG.) SOPHOMORES.

Professors Butterfield and Millington

15. **THEORETICAL MECHANICS (STATICS).** The course includes a study of fundamental concepts, the resultant of a force system by graphical and analytical methods, conditions of equilibrium and the applications to cranes, trusses and flexible cables, followed by centers of gravity and moments of inertia. *Three hours, second semester* (ENG.) SOPHOMORES. PREREQUISITE: DIFFERENTIAL CALCULUS.

Professor Bullard

16. **MECHANICS OF MATERIALS.** The course includes a study of the behavior of elastic bodies, with particular attention to the beam, shaft and column, including simple stress and strain, combined stresses, the elastic curve, and strain energy. *Three hours, first semester* (ENG.) JUNIORS.

Professor Bullard

† For course in Spherical Trigonometry, see Civil Engineering 22 (Geodesy).

17. THEORETICAL MECHANICS (KINETICS). The course is a continuation of Statics treating the equations of motion of a body under the action of a force system, the principles of work and energy, impulse and momentum. *Three hours, second semester (ENG.) JUNIORS.*
Professor Bullard
104. ADVANCED MATHEMATICS. This course is arranged to give special work in mathematics to those engineers who desire to study the application of mathematics to particular subjects as in differential equations or advanced calculus or advanced mechanics and may include advanced geodesy and the theory of least squares. *Three hours, each semester, JUNIORS AND SENIORS. ELECTIVE.*
Professors Butterfield and Bullard

MECHANICAL ENGINEERING

Professors Daasch, Sussdorff and Lucarini; Messrs. Lynde and Batchelder.

14. MECHANICAL DRAWING. Practice and development of proficiency in the use of drawing equipment. The work includes the use of instruments, lettering, sketching, inking, tracing and elementary projective drawing. (Three double periods.) *Three hours, first semester. REQUIRED (ENG.) FRESHMEN.*
15. MECHANICAL DRAWING. Theory and application of orthographic projection, dimensioning, applications of conventions and standards, elementary detail and assembly drawings of machines and structures. (Three double periods.) *Three hours, second semester. REQUIRED (ENG.) FRESHMEN.*
23. MANUFACTURING PROCESSES. A laboratory course offering practice in the simple processes in the fields of metal casting, machining, welding and forming. (Two double periods.) Laboratory Fee \$5.00. *Two hours, first semester. REQUIRED (M. E.) SOPHOMORES.*
24. MANUFACTURING PROCESSES. A laboratory study of methods, jigs, fixtures, special tools and gauges with practice in their uses during manufacturing for interchangeable and progressive assembly. (Two double periods.) Laboratory Fee \$5.00. *Two hours, second semester. REQUIRED (M. E.) SOPHOMORES.*
25. FUELS AND COMBUSTION. This course includes the study of the analysis of solid, liquid and gaseous fuels; the principles of the theory and practice in the combustion of fuels; and the correlation of commercial specifications with the analysis and ultimate utilization of fuels. *Two lecture-recitation and one laboratory periods.*

Three hours, first semester. REQUIRED (M. E.) SOPHOMORES. PREREQUISITE: CHEMISTRY 1.

32. MACHINE DRAWING. The analysis of displacements, velocities and accelerations in machines and the application of such analysis to cams, gears and other mechanisms. Complete layouts, assembly and detail working drawings of machines. *Three laboratory periods. Three hours, second semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITE: M. E. 15.
33. SHOP PRACTICE. Advanced work in the fields of machining, wood working, welding or sheet metal fabrication according to the needs of the student. Especially adapted to those preparing for the teaching of Industrial Arts. *Three laboratory periods. Laboratory Fee \$7.50. Three hours.* REQUIRED (IND. ED.) SENIORS. ELECTIVE. PREREQUISITE: M.E. 24.
35. THERMODYNAMICS. This course is concerned with the fundamental laws of thermodynamics and their applications to the inter-conversion of thermal and mechanical forms of energy in heat engines. *Three recitation periods. Three hours, first semester.* REQUIRED (M. E. AND E. E.) JUNIORS. PREREQUISITE: PHYSICS 1.
36. INTERNAL COMBUSTION ENGINES. The thermodynamic and mechanical principles of the design, operation and performance of spark ignition and Diesel engines. *Two recitation and one laboratory periods. Laboratory Fee \$2.50. Three hours, second semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITE: M. E. 35.
38. POWER ENGINEERING. A short course in the fields of steam and internal combustion engine power. Analysis of the design, operation and performance of characteristic equipment. *Two recitation and two laboratory periods. Laboratory Fee \$5.00. Four hours, second semester.* REQUIRED (E. E.) JUNIORS. PREREQUISITE: M. E. 35.
39. INDUSTRIAL METALLURGY. The important ferrous and non-ferrous metals are studied. Chemical, physical and metallographic characteristics are correlated with the theory and practice of the industrial metallurgical processes. *Two recitation and one laboratory periods. Laboratory Fee \$2.50. Three hours, first semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITES: CHEMISTRY 1 AND PHYSICS 1.
41. MACHINE STRESS ANALYSIS. This course includes the study and use of the mathematical and graphical methods suited to the analysis and determination of static and dynamic stresses in machine parts.

- Three recitation and one laboratory periods. No laboratory fee. *Four hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITES: M. E. 32 AND MATHEMATICS-MECHANICS 17.
42. MACHINE DESIGN. A study of the design of the elements of machines. Three recitation and one laboratory periods. No laboratory fee. *Four hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 41.
43. INDUSTRIAL ENGINEERING. This course is a study of the principles of management and their applications to industrial organizations and industrial operations. Two recitation and one laboratory periods. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 24.
44. FACTORY PLANNING. The systematic analysis of the requirements of a factory for a specific purpose. Work includes the consideration of such items as location, plant design, equipment requirements, general layout and production planning. One recitation and two laboratory periods. No laboratory fee. *Three hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 43.
45. AIR CONDITIONING. The applications of the fundamental principles of thermodynamics in a study of the design and performance of air conditioning equipment and systems for residences, public buildings and industrial plants. One recitation and two laboratory periods. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 35.
47. STEAM POWER PLANTS. The study of the thermodynamic and mechanical principles of the design, installation, operation and performance of steam power plant equipments. Two recitation and two laboratory periods. Laboratory Fee \$5.00. *Four hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 35.
48. AERODYNAMICS. The course includes the study of the application of the principles of the mechanics of fluids to the airplane, to fan and propeller characteristics and to the flow of gases and vapors. Two recitation and one laboratory periods. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITES: C. E. 18 AND 19.
49. SPECIAL PROBLEMS. A study and investigation on a topic or problem of special interest to the student. Formal submission of results in thesis form required. Problems must be approved by the Head of the Department before election of the course. *Meetings as ar-*

ranged, two or three hours. First and second semesters. ELECTIVE (M. E.) SENIORS BY PERMISSION.

50. SEMINAR. Meetings are devoted to discussions of the Mechanical Engineering Profession, the ethics, responsibilities and status of members of the Profession, and timely activities of present-day practice. Current issues of pertinent publications are used as collateral reading and as guides in the study and discussion of contemporary progress in the field. *Two hours, second semester. ELECTIVE (M. E.) SENIORS BY PERMISSION.*
101. ADVANCED HEAT ENGINES. This is an advanced study in theoretical thermodynamics with applications in specific types of heat engines according to the interests of the students. *Three to six hours, first semester, second semester.*
102. VIBRATIONS IN MACHINES. An advanced course in the field of machine design with special emphasis on problems of vibrations. Topics considered include causes of vibrations, methods of study of vibratory motion, determination of vibration stresses, and methods of balancing and damping. *Three to six hours, first semester, second semester.*
103. RESEARCH. The work includes selection of a topic, reading, development of research program and submission of satisfactory thesis. *Three to six hours, first semester, second semester.*

The College of Agriculture

AGRICULTURE

AGRONOMY

Professor Miller

1. SOILS AND SOIL MANAGEMENT. A study of the physiography, physics, chemistry and biology of soils. Lectures, recitations, supplementary reading, laboratory and field work. Laboratory Fee \$2.50 per semester. *Three hours. REQUIRED (AG.) JUNIORS.*
2. FIELD CROPS. A course dealing with cereals, hay and pasture grasses, legumes, forage, fiber, money and special crops; market grades, judging and identification. Lectures, recitations, supplementary reading, laboratory and field work. Laboratory Fee \$2.50. *Three hours first semester. REQUIRED (AG.) SOPHOMORES.*

3. **ADVANCED FIELD CROPS.** Field inspections of farms practicing improved pasture and crop programs and a study of questions received from farmers relative to crops, crop sequences, rotation and field plot technique. No Laboratory Fee. *Three hours first semester.* REQUIRED (P. I.) ELECTIVE TO JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)
103. **SPECIAL INVESTIGATION.** An advanced course consisting of reference reading, field studies and laboratory. *Two or more hours.* ELECTIVE TO JUNIORS, SENIORS AND GRADUATE STUDENTS.

ANIMAL AND DAIRY HUSBANDRY

Professors Ellenberger, Campbell, Herreid and Newlander; Mr. Leeder

1. **STOCK FEEDING.** A course in the principles of animal husbandry and of animal nutrition, including roughages and concentrates, ration formulation and feeding practice. Lectures, recitations, laboratory. No Laboratory Fee. *Three hours, second semester.* REQUIRED (AG.) SOPHOMORES.
Professors Ellenberger and Newlander
3. **LIVE STOCK.** A course in breeds and stock judging. Lectures, recitations, scoring practice. *Two hours, first semester and three hours second semester.* REQUIRED (AG.) SOPHOMORES.
5. **ADVANCED STOCK JUDGING.** Field work at breeding establishments with advanced study of types and strains, competitive judging, particularly of dairy cattle. *Three hours, second semester.* REQUIRED (D. P.) JUNIORS.
6. **DAIRY HERD MANAGEMENT.** A course in herd improvement and management, emphasizing economic production, records and barn practice. Lectures, recitations, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (D. P.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)
7. **HORSE, SHEEP AND SWINE MANAGEMENT.** A course dealing with records, economic production and barn practice. Lectures, recitations, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (D. P.) JUNIORS OR SENIORS. (Offered in alternate years, 1941-1942.)
Professor Campbell
8. **DAIRY CHEMISTRY.** A study of the chemical composition of dairy products; sampling, analysis, detection of adulterations. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (D. M.) SOPHOMORES.

9. DAIRY BACTERIOLOGY. A study of the relation of micro-organisms to milk and milk products and the methods of examination and control. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) SOPHOMORES.
Professor Newlander; Mr. Leeder
10. DAIRY MANUFACTURES 1. A course in general dairying including the secretions, physical properties and the care and handling of milk, Babcock testing and manufactured milk products. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (AG.) FRESHMEN.
11. DAIRY MANUFACTURES 2. The theory and practice of condensing and powdering of milk and of butter making. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)
12. DAIRY MANUFACTURES 3. A study of the principles and practice of cheese and casein manufacture. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1941-1942.)
13. DAIRY MANUFACTURES 4. A course in market milk with emphasis on sanitary production, processing and the problems of marketing. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1941-1942.)
14. DAIRY MANUFACTURES 5. A course in ice cream manufacture; ingredients, theory and practice of processing, manufacturing and distribution. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)
Professor Herreid; Mr. Leeder
15. JUDGING DAIRY PRODUCTS. The quality criteria and market standards of dairy products; practical experience in scoring and judging. Lectures, laboratory. Laboratory Fee \$2.50. *Two hours, second semester.* REQUIRED (D. M.) JUNIORS.
Professors Herreid and Newlander
116. SPECIAL INVESTIGATION. Special advanced work, individual problems or seminars for qualified students. *Two or more hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
Professors Ellenberger, Campbell, Herreid and Newlander

18. DAIRY PLANT OPERATION AND MANAGEMENT. *Credit one hour. Two weeks of supervised practice in commercial plants in early September.* REQUIRED (D. M.) JUNIORS. Professor Herreid

POULTRY HUSBANDRY

Mr. Granger

1. BROODING AND REARING. A course dealing with problems encountered in brooding and rearing chicks to laying age, including breed selection, chick selection, equipment, brooder management, feeding, rearing, range management, chick diseases and the marketing of broilers. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (TCH. AGR.) SOPHOMORES. ELECTIVE TO JUNIORS AND SENIORS.
2. LAYING FLOCK MANAGEMENT. A course dealing with managerial problems, including housing, feeding, watering, ventilation, use of lights, culling, marketing poultry products, and common diseases. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AGR., D. P.) JUNIORS.
3. ADVANCED POULTRY MANAGEMENT. A course covering work in fields of special interest to the students enrolled; project work under supervision. No Laboratory Fee. *Credit, three hours per semester and offered in either or both semesters.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. PREREQUISITES: POULTRY HUSBANDRY 1 AND 2.

AGRICULTURAL ECONOMICS

Mr. Williams

1. FARM MANAGEMENT. The principles and problems of farm organization and management with emphasis upon the factors contributing to successful business operation. Farm accounts, types of farming, efficiency factors and problems involved in building up and operating a profitable farm business. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours.* REQUIRED (AG.) SENIORS.
2. MARKETING AGRICULTURAL PRODUCTS. The economic factors involved in marketing the major products of Vermont farms, particularly geography of production and interregional competition, areas of distribution, marketing agencies, methods and costs, sales and price policies, and public regulation. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours, second semester.* REQUIRED (AG.) SENIORS.

3. AGRICULTURAL COOPERATION AND CREDIT. The development, legal aspects, membership relations, organization, financing and management of farmers' business associations, and the characteristics and problems of cooperative and other agencies supplying agricultural credit. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (AGL. ECON., TCH. AG.) JUNIORS AND SENIORS. (Offered in alternate years, 1941-1942.)
4. PUBLIC PROBLEMS OF AGRICULTURE. The nature and consequences of fluctuations in farm and other prices, private and public indebtedness, taxes, and the organization and operation of local government. Lectures, discussions, laboratory. No Laboratory Fee. *Three hours, first semester.* REQUIRED (AGL. ECON.) JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)

AGRICULTURAL EDUCATION

Professor Sheldon and Douglass; Messrs. Martin and Granger

1. PRINCIPLES OF EDUCATION. (See Education 1.) *Professor Douglass*
2. TEACHING AGRICULTURE 1. A basic course in methods, designed to give prospective agriculture teachers opportunity to survey the field, study their personal fitness for a teaching career, and gain preparation necessary for doing observation and practice teaching at an early date. *Two hours, second semester.* REQUIRED (TCH. AG.) JUNIORS.
3. TEACHING AGRICULTURE 2. A supplementary course in methods, continuing the work of Agricultural Education 2, and giving special attention to the philosophy and psychology underlying agriculture teaching. The units of study include course construction, lesson planning and job analysis. *Two hours, first semester.* REQUIRED (TCH. AG.) SENIORS.
4. TEACHING AGRICULTURE 3. A course in methods related to part-time and evening-school teaching and advising Future Farmer of America chapters. Part-time and evening-school units include, locating class members, determining needs of out-of-school youth, planning programs, selecting effective teaching methods. Future Farmer units include study of purposes, chapter, organization,

- program building, conduct of meetings. *Two hours, second semester.* REQUIRED (TCH. AG.) SENIORS.
5. TEACHING AGRICULTURE 4. A course in observation and student teaching of high school classes under supervision. *Three weeks during either semester. Three credit hours.* REQUIRED (TCH. AG.).
Professor Sheldon; Mr. Martin
6. HIGH SCHOOL ADMINISTRATION. (See Education 6.)
Professor Douglass
10. TEACHING OF FARM SHOP. A special methods course including objectives, course construction, lesson planning, shop management, selection and arrangement of shop equipment, and instruction in wood, concrete, metal, leather working skills. Laboratory Fee \$5.00. *Three hours, second semester.* REQUIRED (TCH. AG.) SENIORS.
Mr. Granger

AGRICULTURAL ENGINEERING

Mr. Granger

1. FARM MECHANICS. Practical training in farm engineering and mechanics including gasoline engines and power transmission, forge work, farm structures and concrete, leveling and drainage, farm water supply and sewage disposal; current problems in general agricultural engineering. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AG., P. I., D. P., D. M.) SENIORS.
2. ELECTRICITY IN THE HOME AND ON THE FARM. A course of practical training in the use of electricity on the farm and in the farm home; wiring, motors, farm appliances, safe use of electrical energy. *Three hours, first semester.* Laboratory Fee, \$2.50. REQUIRED (TCH. AG.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)

AGRICULTURAL PHILOSOPHY

1. AGRICULTURE AND CIVILIZATION. A study of the rôle which agriculture has played in the general economic and cultural life of mankind. Special emphasis is placed on current trends in agriculture and their effects on the life of today. *Three hours, second semester.* REQUIRED (AG.) SENIORS.
Professor Dykhuizen

*BOTANY

Professors Burns and Lutman; Miss Stone, Dr. Marvin, Mr. Ratledge

3. GENERAL BOTANY. A study of the morphology, anatomy, physiology and classification of higher plants. Lectures, recitations, laboratory. Laboratory Fee \$2.50 per semester. *Three hours (AG.) FRESHMEN.*
Dr. Marvin, Mr. Ratledge
4. PLANT PHYSIOLOGY. An experimental study of the nutrition of higher plants including problems of irritability and response. Lectures, recitations, related readings, laboratory, field and greenhouse work. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (P. I.) SOPHOMORES. PREREQUISITE: BOTANY 2 OR 3.
Professor Burns
5. GENERAL BOTANY. A study of the morphology, anatomy, physiology and classification of higher plants. Lectures, recitations, laboratory and greenhouse work. Laboratory Fee \$2.50. *Four hours, second semester.* REQUIRED (H. E.) FRESHMEN.
Miss Stone
9. ECOLOGY. A study of the physiological factors of habitats and their effect in plant structure and distribution. Lectures, field work. No Laboratory Fee. *Three hours, second semester.* ELECTIVE BY PERMISSION.
Professor Burns
10. PLANT PATHOLOGY. A study of the healthy plant, and the conditions producing disease. Insect-produced diseases, bacteria, and fungi, fungicides and their action. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS AND SENIORS. ELECTIVE TO OTHERS.
11. GENERAL MICROBIOLOGY. A study of bacteria in soil, water and air; morphology classification and requirements. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Four hours, first semester.* REQUIRED (AG.) SOPHOMORES.
Professor Lutman
13. HOUSEHOLD MICROBIOLOGY. A study of bacteria, yeasts and molds in relation to home sanitation and to food preservation. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS.
Miss Stone
108. CURRENT LITERATURE IN BOTANY. A review of important papers and books. *One hour.* ELECTIVE TO JUNIORS AND SENIORS.

* For other courses in Botany refer to Index.

109. SPECIAL INVESTIGATION. Laboratory Fee \$5.00 per semester. *Number of hours to be arranged.* ELECTIVE TO SENIORS BY PERMISSION.
Professors Burns and Lutman

*CHEMISTRY

Professors Willmarth and Crooks; Miss Brown

15. AGRICULTURAL CHEMISTRY. A study of fundamentals of organic chemistry in special relation to agriculture. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (AG.) SOPHOMORES. *Professors Willmarth and Crooks*
19. OUTLINES OF ORGANIC CHEMISTRY. Introduction to the principal classes of organic compounds with special emphasis on the composition of foods and their related groups. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) SOPHOMORES. *Professor Willmarth*
20. CHEMISTRY OF FOODS. A general discussion of foodstuffs with chemical analyses of milk, edible fats and oils, carbohydrate foods, proteins, and tests for preservations and adulterants. Lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (H. E.) SOPHOMORES. *Professor Willmarth*
22. GENERAL INORGANIC CHEMISTRY. A course in general inorganic chemistry, with a brief introduction to organic compounds. The teaching is related to professional preparation in Home Economics. Lectures, recitations, laboratory. Laboratory Fee \$7.50 per semester. *Five hours.* REQUIRED (H. E.) FRESHMEN.
Professor Willmarth; Miss Brown
23. GENERAL INORGANIC CHEMISTRY. An introductory course in Inorganic Chemistry with special emphasis to its relation to agriculture. Lectures, recitations, laboratory. Laboratory Fee \$7.50 per semester. *Four hours.* REQUIRED (AG.) FRESHMEN. *Professor Crooks*
24. BIOCHEMISTRY. The elements of biochemistry including the chemistry of digestion and a study of the bile and other digestive fluids. Qualitative and quantitative analyses of blood and urine and determination of hydrogen ion concentration. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Three hours, first semester.* ELECTIVE (H. E.) SENIORS. *Professor Willmarth*

* For other courses in Chemistry refer to Index.

***FORESTRY**

Professor Adams

2. WOODLOT FORESTRY. A study of the theory and practice of silviculture, nursery management, natural and artificial regeneration, and the identification and classification of economic woods. Lectures, text assignments, field work. *Three hours.* REQUIRED (TCH. AG., P. I., D. P., AGL. ECON.) JUNIORS.
3. MENSURATION. A course dealing with the principles and practices in land surveying and timber estimation, including a study of growth and yield with application to forest and wood lot conditions. Lectures, text assignments, field work. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
7. BIOLOGICAL STATISTICS. A study of the application of the statistical method to the analysis of biological data with special reference to agriculture and forestry, including methods of sampling and testing samples, the application of statistical constants and the interpretation of data. Lectures and text assignments. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.

GENETICS

Professors Cummings and Campbell

1. GENETICS. A course of studies in the principles of plant and animal improvement, origin of species and varieties, heredity, evolution, selection, hybridization, sterility and fecundity and the principles of breeding. Lectures, text and reference readings, recitations, laboratory. Laboratory Fee \$2.00. *Three hours, first semester.* REQUIRED (P. I., D. P.) JUNIORS.

†HOME ECONOMICS

Professors Terrill, Lake, Bailey, Burwash, Fairbanks and Holbrook; Dr. Emelie Perkins; Misses Rawson and LeBaron

1. SURVEY. An introduction to the development, aims and scope of Home Economics as a profession. *One hour.* REQUIRED (H. E.) FRESHMEN. *Professor Terrill*
2. PRINCIPLES OF SELECTION AND PREPARATION OF FOOD. A laboratory course in the composition of foods, the changes effected in food preparation, especially by application of heat with emphasis

* For other courses in Forestry refer to Index.

* For other courses and the curriculum in Home Economics refer to Index.

upon correct preparation in relation to composition. Laboratory Fee \$5.00 per semester. *Three hours.* REQUIRED (H. E.) SOPHOMORES. *Professors Lake and Bailey*

3. PREPARATION AND SERVING OF MEALS. A practical laboratory course in the preservation, preparation and serving of food, including studies and practice in planning, cost calculating and market purchasing. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS.
5. DIET AND NUTRITION. A study of the chemistry, nutritive values and the metabolism of carbohydrates, fats and proteins, including special diets, food requirements as modified by age, sex and activity, and the cost of foods in relation to nutritive values. Lectures, text assignments, recitations, laboratory. Laboratory Fee \$5.00. *Five hours, second semester.* REQUIRED (H. E.) JUNIORS. *Professor Bailey*
7. APPLIED DESIGN. Studies in the principles of design and their application to costume planning and selection, to the selection of house furnishings and to original decorative schemes, including an appreciation of period furniture. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) FRESHMEN.
8. CLOTHING 1. A course in simple garment construction, the use of commercial patterns and the care, repair and hygiene of clothing. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (H. E.) FRESHMEN.
9. CLOTHING 2. A course in pattern making, costume design and construction, including a study of materials appropriate for different garments. Shopping ethics are discussed. The course aims to develop good judgment in the selection of materials and ready-made clothing. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (H. E.) JUNIORS. *Professor Burwash; Miss Rawson*
10. TEXTILES. A study of textile fibres and their manufacture, including the identification of fabrics and recognition of admixtures and adulterations. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. *Professor Burwash*
11. HOUSEHOLD EQUIPMENT. Studies in the selection and care of equipment, efficient organization, sanitary standards, cleaning problems and practices. *Three hours, first semester.* REQUIRED (H. E.) SOPHOMORES. *Professor Terrill*
12. HOUSEHOLD MANAGEMENT. A study of the economic problems of home life, including the household budget and the principles and

field practice of market purchases of equipment, furnishings and food. *Three hours, second semester.* REQUIRED (H. E.) JUNIORS.
Professors Terrill and Bailey

13. THE FAMILY. A study of the origin, development, structure and functioning of the family in relation to present-day home and social problems. *Three hours, first semester.* REQUIRED (H. E.) SENIORS.
Professor Terrill
15. CARE OF CHILDREN. A study of the conditions of child life, including pre-natal influences, infancy and childhood. *Two hours, second semester.* REQUIRED (H. E.) SENIORS. *Dr. Emelie Perkins*
16. HOME ECONOMICS TEACHING. A course in modern educational principles and methods applied to junior and senior high schools, including evaluation of objectives, selection and organization of subject matter, methods of presentation, and special problems of departmental administration. *Two hours, first semester; one hour, second semester.* REQUIRED (H. E.) SENIORS PREPARING TO TEACH.
Professor Fairbanks
17. STUDENT TEACHING. A practical course in observation and student teaching in the junior and senior high schools, including discussions and individual conferences on teaching problems. Sectioned in both semesters. *Three semester hours credit.* REQUIRED (H. E.) SENIORS PREPARING TO TEACH.
Professor Fairbanks; Miss LeBaron
20. ADVANCED CLOTHING. A course in advanced garment construction and draping; historic costume and costume design. Laboratory Fee \$2.50. *Three hours, first semester.* ELECTIVE (H. E.) SENIORS.
Professor Burwash
21. CHILD NUTRITION. A study of the growth and nutrition of children and of the principles and methods of teaching health education to them. The course offers opportunity for practice teaching experience. *Two hours, first semester, and one hour, second semester.* ELECTIVE (H. E.) SENIORS.
22. READINGS IN NUTRITION. A critical study of the literature dealing with selected subjects in the field of nutrition. *Three hours, second semester.* ELECTIVE (H. E.) SENIORS.
Professor Bailey
24. BIO-CHEMISTRY. (See Chemistry 24.)
25. PRE-SCHOOL CHILD. A study of the mental, moral, emotional development of children from birth to six years, with special emphasis upon the social and educational significance of this period. The course includes an outline of the history and philosophy of the Nursery School movement with opportunity for observation

and work with children of pre-school age. *Three hours, second semester.* REQUIRED (H. E.) SENIORS. *Professor Holbrook*

26. INTERIOR DECORATION. A study of the application of the principles of design and color to the decoration and furnishing of the present-day home from historic, artistic and economic points of view. *Three hours, second semester.* ELECTIVE (H. E.) SOPHOMORES.

Professor Burwash

27. RELATED ARTS. A study of the development of sensitivity to beauty in everyday living, including art experiences in dress, home and school laboratory furnishings and arrangements and an appreciation of the decorative arts. *Three hours, first semester.* ELECTIVE (H. E.) SENIORS.

Miss Rawson

HORTICULTURE

Professor Cummings

1. ELEMENTS OF POMOLOGY. An introductory course in orchard fruits and fruit plants, including science and practice, products and by-products, commercial aspects and extension problems. Lectures, recitations, laboratory, orchard practice. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (AG.) FRESHMEN.
2. ADVANCED POMOLOGY. A study of fruits not included in the elementary course with consideration of problems, research methods, investigational literature and teaching methods. Lectures, related readings, laboratory, field work. Laboratory Fee \$2.50 per semester. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. (Offered in alternate years, 1941-1942.)
4. FLORICULTURE AND LANDSCAPE GARDENING. A course in the principles and practice of the culture of ornamental flowering plants with consideration of general, commercial and systematic problems. The course includes an outline of landscape designing and planning exercises for the improvement of home and school grounds. Lectures, text and reference reading assignments, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)
5. GREENHOUSE MANAGEMENT. A course in the methods and problems of growing fruits, flowers and vegetables under glass with special reference to the commercial problems. Lectures, text and related reading assignments, laboratory work. Laboratory Fee

\$2.50. *Three hours, second semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. (Offered alternate years, 1940-1941.)

106. SPECIAL INVESTIGATION. An advanced research seminar in some branch of Horticulture. Laboratory Fee \$3.00 per semester. *Hours to be determined.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS BY PERMISSION.

VETERINARY SCIENCE

Dr. L. A. Evans

2. DISEASES OF DOMESTIC ANIMALS. A study of the etiology, symptomatology and treatment of the common ailments and diseases of farm animals. Lectures, recitations and clinics. No Laboratory Fee. *Three hours, one semester,* JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)

*ZOOLOGY

Mr. Perry and Dr. Tartar

3. GENERAL ZOOLOGY. An elementary course presenting a survey of the animal kingdom. Emphasis is placed on the development, form, and function of the various organ systems in representative types. Laboratory Fee \$4.00. *Four hours, first semester.* REQUIRED (H. E.) FRESHMEN. *Mr. Perry and Dr. Tartar*
4. GENERAL ZOOLOGY. A study of typical invertebrate and vertebrate animals, their structure, physiology, behavior, life history, and the relation of Zoology to human welfare. Laboratory Fee \$4.00. *Four hours, second semester.* REQUIRED (AG.) FRESHMEN. *Mr. Perry*
8. ENTOMOLOGY. An elementary study of insects of economic importance in Vermont with recitations, laboratory and field trips. Laboratory Fee \$2.50. *Two hours, second semester.* REQUIRED (P. I.) JUNIORS OR SENIORS. ELECTIVE TO OTHERS. (Offered in alternate years, 1941-1942.) *Dr. Tartar*
13. PHYSIOLOGY. A course of lectures supplemented with weekly demonstrations designed to acquaint the student with the fundamentals of physiological phenomena for the most part in man and other vertebrates. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. PREREQUISITE: ZOOLOGY 3 OR ITS EQUIVALENT. *Mr. Perry*

* For other courses in Zoology refer to Index.

The College of Medicine

ANATOMY

*Professors Brown, Jordan, Newball, Stultz and Dunihue;
Drs. *Piatt and Jenks*

FIRST YEAR

I. Gross Anatomy

This course starts with a brief introduction to the study of human anatomy, followed by a few sessions devoted to osteology. A set of bones is provided for each student. Appearances of the bones as shown on X-ray films are demonstrated by Dr. Soule, Professor of Radiology.

The plan of work then provides for dissection of the body done by groups of students, usually four in each group. Emphasis is placed on careful dissection and the importance of learning not only how to be a good dissector, but also how to assist whomever is handling the scalpel.

The approach to dissection is made from the standpoint of topographical and regional anatomy. As a general rule, structures to be dissected during a given period are assigned in the order in which they are encountered in the dissecting room and are studied and discussed in advance so that the student will be somewhat familiar with what he expects to discover in the laboratory.

Frequent review sessions are held and each student is given oral examinations on cadaver dissections as well as written examinations on the material presented.

An attempt is made to correlate the subject matter with other pre-clinical and clinical courses so that the student will have an opportunity to acquire a good working knowledge of gross anatomy with a minimum amount of time and effort wasted.

Four hundred and thirty-two hours (twenty-two hours per week during the first semester and ten hours per week during the second semester for eight weeks).

Drs. Newball, Brown, Stultz and Jenks

* Absent on leave.

II. Histology, Embryology and Neuro-anatomy

The subject matter is organized and presented in the following parts and sequences: Histology, Embryology, Neuro-anatomy. Work is carried on by means of lectures, discussions, demonstrations, and laboratory exercises, and continues through the first year. Among the topics considered are: technic, microscopic structure of normal human cells, tissues and organs, maturation, fertilization, cleavage, implantation, the development of body form, tissues, and organs, and the development and structure of the nervous system. An effort is made throughout to include practical applications and correlations. Neuro-anatomy includes a study of the structural and functional organization of the nervous system, correlating with physiology and pharmacology and serving as a basis for applied neurology. This course deals with the nervous tissue elements, sense organs, effectors, complete conduction pathways including fiber tracts, cerebral localization, cranial nerves including functional components, the autonomic nervous system including a consideration of reflexes and the innervation of organs. Among other topics, cases involving the location of lesions are considered. A part of the laboratory work consists of the study and drawing of significant sections of cord and brain stem, and the tracing of conduction pathways, including nuclei.

The facilities of the laboratory are available to a limited number of qualified persons for research in these subjects.

Histology, one hundred and twelve hours; Embryology, thirty-two hours; Neuro-anatomy, seventy hours. *Professor Jordan, Dr. Dunikue*

SECOND YEAR

I. Anatomy

Inasmuch as all the advanced work offered by the Department is given in the first year, the aim of this course is to review the subject matter thoroughly so that each student will strengthen his grasp of the essentials necessary for applying his knowledge of anatomy, always keeping in mind that a knowledge of structure is of little use except as it contributes to an understanding of function and the ability to restore abnormal function again to normal. Emphasis is placed upon the correlation of gross anatomy with microscopic and developmental anatomy.

Thirty-two hours (one hour per week during the first and second semesters). *Drs. Brown and Newhall*

BACTERIOLOGY, HYGIENE AND PREVENTIVE MEDICINE

*Professors Kemp, Dalton, James, Moat and Rabinowitz;
Drs. Foster, Speas, Manson*

SECOND YEAR

I. Bacteriology

The course includes a survey of general bacteriology, the means and methods used in bacteriology, a close study of problems of pathogenic bacteriology particularly as they pertain to the etiology, diagnosis, treatment, and prevention of infectious disease, and a study of the hypersensitivities insofar as they are concerned with the mechanisms of infection and immunity. Immunology is considered as integral to bacteriology and is not taught as a separate course.

Lectures and recitations, two hours per week first semester. Laboratory eight hours per week, first semester. *One hundred and fifty-two hours.*
Dr. James

II. Hygiene

Lectures, demonstrations and field trips.

The course includes studies in sanitation, ventilation, water purification, sewage disposal, milk supply, administration and functions of health agencies, both public and volunteer, and their proper relation to public health. *Thirty-two hours.*

Drs. Dalton and Kemp, and Assistant Professor Moat

THIRD YEAR

I. Preventive Medicine

The course is based on a study of the principles of preventive medicine as applied both to private practice and public health. The didactic work includes demonstrations of means and methods employed in the prevention of infectious disease, in the recognition and prevention of functional disorders, and the preventive methods now employed in industrial hygiene. *Thirty-two hours.*

Drs. Kemp, Dalton and Rabinowitz

FOURTH YEAR

I. Section Work

Inasmuch as the City Dispensary houses a number of health agencies, arrangements for work are such that sections on service there are in close

contact with public and volunteer agencies engaged in health and welfare activities. Students on city service are necessarily dependent upon a close liaison with the Howard Relief, the Visiting Nurses Association, the Vermont Crippled Children's organization, the bureaus for maternal welfare and child hygiene, the Vermont Tuberculosis Association, the State program for the control of venereal disease, and the functions of the State Health Department.

The Staff

CHEMISTRY

Professors Whitney, Pierce and Davis; Messrs. Fenton and Crispell

FIRST YEAR

Lectures and recitations, four hours per week, second semester. *Sixty-four hours.*

Laboratory, six hours per week, second semester. *Ninety-six hours.*

The course is designed to afford the student an insight into chemical transformations which take place in the living animal body, with special reference to man. The work is largely quantitative and deals with carbohydrates, fats, proteins, enzymes, digestion, absorption, blood and urine. The chemistry of the vitamins and hormones is discussed briefly to prepare for the more extended study in the second year of Physiology.

Drs. Pierce, Davis and Assistants

The laboratory facilities of the Department are available to qualified persons for research in Biochemistry.

GYNECOLOGY.

Professors Eastman, Durfee and E. D. McSweeney; Dr. White

THIRD YEAR

I. Principles of Gynecology

Lectures and recitations on gynecological problems are considered in detail, together with the method of gynecological diagnosis and treatment indicated. *Sixty-four hours.*

Drs. McSweeney and Eastman

II. Section Work

Students receive instruction in history taking and diagnosis at the Mary Fletcher Hospital. *Sixteen hours.*

Dr. White

FOURTH YEAR

I. Clinical Gynecology

Students assigned to the gynecological services are expected to follow their cases from entrance to operation and post-operatively until discharged from the hospital. Acceptable histories, physical examinations, and follow-up notes are required.

The training includes diagnostic and supervised treatment of gynecological patients at the College Dispensary where small sections, not more than two students, are given individual instruction by the attending gynecologist.

Drs. Eastman, McSweeney, Durfee and White

OPHTHALMOLOGY, OTOLARYNGOLOGY AND RHINOLOGY

Professors Twitchell, McMahon, Larner and Lawlor

THIRD YEAR

Lectures and recitations. *Thirty-two hours*, first semester. The course includes manner and methods of examinations for diseases of the lids, conjunctiva, orbit, lacrimal apparatus, cornea, uveal tract and fundus.

Lectures and practical demonstrations of the use of the ophthalmoscope, headmirror, and other instruments used in the examination of ear, nose and throat, and methods used in estimating the refraction, are given at the Mary Fletcher Hospital to small sections. In this work the students are drilled in the various tests of routine examinations, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. The course also includes lectures and recitations on the common diseases of the nose, throat and ear.

Dr. Twitchell

FOURTH YEAR

Clinical instruction Tuesday and Friday afternoons of each week from two to four o'clock at the Mary Fletcher Hospital outpatient clinic. Inpatient cases are also used for teaching. Patients are examined before the sections and by the sections. Treatments and methods of treatment are shown and explained.

Drs. Twitchell and McMahon or Larner

Clinical instruction Monday and Wednesday afternoons of each week from three to five-thirty o'clock at the Bishop DeGoesbriand Hospital outpatient clinics.

Dr. Lawlor

Clinical instruction to the section on duty at the Fanny Allen Hospital.

Drs. McMahon, Larner or Lawlor

Clinical instruction at the Fort Ethan Allen Hospital by the officer on duty.

Clinical instruction at the Burlington Free Dispensary on Thursday afternoon of each week at four o'clock.

Drs. McMahon, Larner or Lawlor

Each student of the fourth year will be required to hand in a certain number of case reports and two theses, one on a subject concerned with Ophthalmology and one with Otolaryngology. The subject is to be chosen by the student with the approval of the teaching staff of this Department.

PEDIATRICS

*Professors Johnson, Clark, Corley, W. B. Adams and Cobb;
Drs. Cunningham, Newmark, O'Connor and Pokorny.*

THIRD YEAR

Principles of Pediatrics

Lectures on the more important diseases of infancy and childhood, preventive pediatrics, breast and artificial feeding. Also lectures and demonstrations on history taking, physical examination, normal development, body types and posture. Before the entire class. *Sixty-four hours.*

Dr. Johnson

FOURTH YEAR

Clinical Clerkships

The work of the fourth year is carried on with small sections of students at the three hospitals, Dispensary, the Maternity and Children's Homes. There is also one clinic a week in the amphitheatre. Care of the premature and new-born is included in the clinical clerkship in obstetrics at the Wesson Maternity Hospital in Springfield, Mass. Additional ward work is done in pediatrics during the service at Worcester.

*Drs. Johnson, Corley, Clark, W. B. Adams, Cobb, Pokorny,
Newmark, Cunningham and O'Connor*

RADIOLOGY AND PHYSICAL THERAPY

Professor Soule; Drs. Fogg and Caldwell

FIRST YEAR

I. Introduction to Radiology

Lectures and demonstrations in conjunction with Departments of Physiology and Anatomy. Physics and general principles of radiology;

normal roentgen anatomy and physiology; fluoroscopic demonstrations of chest. *Eight hours.* Dr. Soule

SECOND YEAR

I. Radiology

Continuation of fluoroscopic and roentgenographic demonstrations in conjunction with Departments of Physiology and Anatomy.

Roentgen diagnosis of bone tumors and of diseases of the chest; effects of radiation on normal and abnormal tissues; introduction to radiotherapy. *Eight hours.* Dr. Soule

THIRD YEAR

I. Radiology

Diagnostic and therapeutic radiology; lectures and demonstrations covering the diagnosis of abnormalities of the skeletal system, alimentary tract, urinary tract, central system; considerations of the use of X-ray and radium in the treatment of neoplasms, endocrine disturbances, and inflammatory lesions. *Sixteen hours.* Dr. Soule

II. Physical Therapy

Lectures on the physics and general principles of physical therapy, including dry and moist heat, massage and manipulation, ultra-violet and infra-red rays. Indications and contra-indications and methods of applications of each. *Six hours.* Dr. Fogg

FOURTH YEAR

I. Radiology Conferences

Weekly conferences on general radiological problems, and current literature. Members of other clinical departments are present at most of these sessions. Each student is required to prepare a paper on some phase of radiology for presentation before the group at some time during the year. *Thirty-two hours.* Dr. Soule

II. Physical Therapy Clinics

Three days a week at the Burlington Free Dispensary. Section demonstrations and discussions of physical therapy at hospitals, dispensary and other institutions. Dr. Fogg

MEDICINE

Professors Beecher, O'Neil, French, E. J. Rogers, Hill, Kemp, Raab, Disbrow, Petersen, Traub, Rood, Upton, Amidon and Ferenbaugh; Drs. Ravey, Pike, Medivetsky, Harwood, Kent, Katherine McSweeney, Mahoney, Moriarty, Paciulli, W. F. Rogers, Terrien, J. G. Thabault, Thorne, McCrea, Judge Grout.

SECOND YEAR

I. *Physical Diagnosis (Normal)*

(a) Instruction is given in the methods of physical examination, one hour a week throughout the year. *Thirty-two hours.* Dr. Beecher

(b) One hour a week throughout the year is allowed for demonstrations and examination of patients. Taught in sections. *Thirty-two hours.* Drs. Amidon, Upton, Raab and Harwood

II. *History Taking and Elementary Clinics*

One hour a week, second semester. *Sixteen hours.* Dr. Beecher

III. *Pathological Physiology Conference*

A discussion and an interpretation of the disturbed physiological and biochemical processes underlying disease, two hours a week, second semester. *Thirty-two hours.* All members of Department

IV. *Mental Hygiene*

This course presents a discussion of the development, significance, and treatment of the common behavior problems of childhood, adolescence and adulthood. The psychobiological origins of the various personality reactions are described, and mention made of the pathological mental mechanisms underlying the development of the various types of personality. One hour weekly throughout the year. *Thirty-two hours.* Dr. Thorne

THIRD YEAR

I. *Physical Diagnosis (Pathological)*

Small sections are assigned to the Fanny Allen, Bishop DeGoesbriand, Fort Ethan Allen and Mary Fletcher Hospitals, two hours a day, four days each week, for practical work in history taking and physical examinations. No direct distinction is made between medical and surgical cases, the time and service being divided between the two. *Two hundred and fifty-six hours.* Drs. Amidon, Upton, Raab, Hill, Harwood, Paciulli, Terrien, Ravey, McSweeney, Thabault and W. F. Rogers

II. Textbook Survey, General Medicine

Emphasis is placed on the commoner conditions and on etiology, symptomatology, physical findings, and laboratory data. Two hours each week. *Sixty-four hours.* Drs. Amidon, Ravey, Upton, Raab and Harwood

III. Therapeutic Conference

One hour a week throughout the year. *Thirty-two hours.* Dr. French

IV. Therapeutic Clinic

One hour a week throughout the year. *Thirty-two hours.* Dr. French

V. General Medical Clinic

One hour a week throughout the year. *Thirty-two hours.*
Drs. Amidon, Raab and Beecher

VI. Clinico-Pathological Conferences

These conferences are held in conjunction with the Departments of Pathology and Surgery, one and one-half hours a week throughout the year. *Forty-eight hours.*
Drs. Beecher, Amidon, Raab and Harwood, and members of the Departments of Surgery and Pathology

VII. Parasite Diseases

The course consists of lectures and laboratory demonstrations concerning the diseases transmitted or caused by ecto- and endoparasites pathogenic for man. Chief emphasis is placed on the parasite diseases common to North America. *Sixteen hours.* Dean Kemp

VIII. Dermatology

Lectures and demonstrations are given covering etiology, diagnosis, and therapy of the more common skin diseases. Use is made of the projectoscope and lantern slide illustrations. *Twelve hours.* Dr. Traub

Clinics are held at which students are assigned to patients in rotation for practice in history taking and method of procedure in examining patients. Emphasis is placed on the importance of being able to describe the manifestations of skin diseases in terms of the primary and secondary lesions of the skin. Each student demonstrates his case before the clinic where possibilities regarding diagnosis are discussed. An outline of proposed therapy completes the presentation. *Thirty hours.* Dr. Traub

IX. Medical Jurisprudence

Lectures are given on the right to practice, contractual relations between physician and patient, the law of malpractice, legal aspects of the physi-

cian's duties under public health laws, autopsies and reports thereon, medico-legal aspects of certain crimes, expert testimony, insanity, and judicial toxicological investigations. *Sixteen hours.* Judge Grout

X. Neurology

Following a brief review of structure and function, the didactic work includes the presentation of the clinical aspects and underlying pathology of the diseases of the nervous system. *Sixteen hours, first semester.*

Dr. Upton

In the second semester, the class work includes weekly neurological clinics from selected cases illustrating the diseases of the nervous system. Students are assigned to the presentation of patients for the clinic which is attended by the entire class. The attending neurologist places full emphasis on a review of the structures involved, the taking of the history, and the methods of examination utilized. *Thirty-two hours.*

Drs. Petersen and Upton

XI. Psychiatry

Lectures are given on the psychological approach to the problem of mental disease. The following topics are discussed: descriptive psychology, incidence and causes of mental disease, symptomatology, classification of mental diseases, diagnosis and treatment of mental diseases, methods of examination and history taking, and commitment of the insane. *Twenty-two hours.*

Dr. O'Neil

FOURTH YEAR

I. Mental Hygiene Clinics

Fourth-year students will be assigned in rotation to observe diagnostic and therapeutic procedures being carried out at the Vermont Mental Hygiene Clinic for children in Burlington and at the Brandon State School. Opportunities will be given to study individual cases under the direct supervision of the Clinical Staff.

Dr. Thorne

II. Dermatology

Students attend the dermatology clinics at the Mary Fletcher Hospital. *Twelve hours.*

Dr. Traub

In addition, senior students are assigned in rotation to attend the dermatology clinics at the Burlington Free Dispensary, held each Wednesday afternoon. Attendance on the dermatology outpatient clinic is a part of the one month service at Worcester.

III. Neurology

Throughout the year student instruction is given at the Dispensary.
Dr. Upton

IV. Psychiatry

Each student spends one week at the Vermont State Hospital. Staff meetings, clinics, ward work and examination of patients. *Dr. O'Neil*

V. Clinical Clerkships

The work of this year is done in small sections at the several teaching hospitals. Students serve as clinical clerks. Patients are assigned for history taking, physical examination and the necessary laboratory work. Demonstrations, conferences, and ward rounds are made by the Staff.

The sections in rotation are at the Mary Fletcher, Fanny Allen, Bishop DeGoesbriand and Fort Ethan Allen Hospitals, the Vermont Sanatorium for tuberculosis, the Vermont State Hospital, on City Service, and at the Dispensary. The services are for four weeks, with the exception of the Vermont State Hospital for the Insane and the Vermont Sanatorium, where the students are assigned for one week's residence. The section on City Service (domiciliary medicine) is also on service at the Dispensary during the clinic hours, and is quartered in the building. Students on this service make house calls under the supervision of the Director of the Free Dispensary. This is a general, twenty-four hour service, and is also of one month's duration.

The entire medical staff supervise the sections in the various hospitals.

OBSTETRICS

Professors Durfee, Eastman and Edgelow; Drs. Rust, White, Ashton, Barney, Glickman, Loring and Stusick

SECOND YEAR

Anatomy of female pelvis and reproductive organs. Course and mechanism of labor. Management of normal labor, normal puerperium and lactation. *Thirty-two hours.*
Dr. Durfee

THIRD YEAR

Physiology of reproduction and associated endocrinology. Management of pregnancy, normal and abnormal (including toxemias of pregnancy). *Thirty-two hours.*
Dr. Eastman

Abnormal labor—operative obstetrics. Gross and microscopic pathology in cooperation with the Department of Pathology.

Demonstration of normal and abnormal labors on the manikin and by motion pictures. *Sixty-four hours.* Dr. Durfee

Demonstration ward rounds, in sections. *Twenty-four hours.*

Dr. White

FOURTH YEAR

Students are assigned to section work for periods of one month. During term of assignment, students attend prenatal and postnatal clinics at the Burlington Free Dispensary and the Elizabeth Lund Home. (*Twenty hours.*) Labors are attended at the Mary Fletcher Hospital, the Elizabeth Lund Home, and in the Outpatient Department. In each instance, patients are assigned to individual students who, under the supervision of a clinical instructor, act as labor clerks, taking histories, making general physical and obstetrical examinations and keeping detailed records. The labor clerk observes or assists at the actual deliveries.

Additional experience in clinical obstetrics is provided by affiliation with the Berwind Clinic in New York and the Wesson Maternity Hospital in Springfield, Mass. The appointments at the Berwind Clinic are made during the summer vacation period between the third and fourth years, and are for periods of three weeks. Students are assigned for work at the Wesson Maternity Hospital in sections of three for periods of one month. In each instance, the students are responsible to the University, as well as to the administrations of the institutions.

PATHOLOGY

Professors Buttle, Ferguson and P. W. Butterfield; Drs. Robbins and Hobbs*

SECOND YEAR

I. Pathology

This course covers general pathology and special pathology of the circulatory and urinary systems and of the blood. Students are furnished with a loan collection of slides illustrative of common lesions, and these slides are supplemented by a large number of slides from autopsies or operations, for study and diagnosis. One of the chief aims of the course is to correlate the work of the preclinical and clinical years and for this purpose, during the latter part of the course, many case histories are used in conjunction with slides and gross tissues from the same cases.

* Absent on leave.

During the second semester, two hours weekly are devoted to a conference conducted jointly by the Departments of Pathology, Physiology and Medicine. At these conferences selected case histories are discussed and an attempt made to explain the symptoms on a basis of changes in anatomy, physiology and chemistry.

Recitations and lectures, two hours per week. *Sixty-four hours.*

Laboratory, five hours per week, first semester, and six hours per week during second semester. *One hundred and seventy-six hours.*

Drs. Buttles, Butterfield and Hobbs

II. Clinical Pathology

This course covers the usual methods of laboratory examinations as well as the interpretation of results. It embraces microscopic and chemical studies of blood, urine, spinal fluid, exudates and transudates, feces and gastric contents.

Recitations and lectures, one hour per week, second semester. *Sixteen hours.*

Laboratory, six hours per week, second semester. *Ninety-six hours.*

Dr. Ferguson

THIRD YEAR

I. Pathology

This is a continuation of the course of the second year and covers special pathology. Students are supplied with a loan collection of typical slides and study many slides from operations or autopsies. Special emphasis is placed upon gross pathology as illustrated by museum preparations and material from autopsies and operating room.

Recitations, lectures and laboratory, four hours per week the first semester. *Sixty-four hours.*

Drs. Ferguson and Butterfield

II. Clinical Conferences

Two hours per week throughout the year, in conjunction with the Department of Medicine.

FOURTH YEAR

I. Autopsies

Students are required to attend autopsies as available and to take notes, describe gross and microscopic findings and report conclusions upon assigned cases.

PHARMACOLOGY

Professors Pierce, Whitney, Leonard and Davis

SECOND YEAR

Lectures and recitations. *Fifty-eight hours, second semester.*

Laboratory. *Seventy-eight hours, second semester.*

The major purport of the instruction is to prepare the student for the clinical study of therapeutics by providing him with knowledge of the manner in which drugs modify functional activity in the organism. After a brief survey of the chemical properties of drugs, incompatibilities, toxicological analysis, antidotes and standardization by bioassay, the chief work of the course is concerned with experimental pharmacodynamics. Lectures and recitations on pharmacological and toxicological properties of drugs are closely correlated with laboratory work. Available preparation forms and posology of drugs are studied as the various types of medicinal agents are considered. Prescription writing exercises are given and various types of official preparations compounded in the laboratory.

Drs. Leonard and Davis

Toxicology

The course consists of discussions and recitations one hour a week during the second semester of the second year. The time is divided about equally between General Toxicology and Special Toxicology in which each important poison is studied with reference to its origin, effect on the body, treatment, and so forth. *Sixteen hours.*

Dr. Whitney

The laboratory facilities of the Department are available to qualified persons for research in Pharmacology.

PHYSIOLOGY

Professors Jackson, Dags and Sichel

FIRST YEAR

Lectures and conferences, second semester. *Sixty-four hours.*

Laboratory, second semester. *Ninety-six hours.*

The material covered in the first year includes the physiology, with its physical and physical chemical basis, of excitation, conduction and contraction; blood, heart and circulation; respiration; the central nervous system; and the special senses.

Drs. Jackson, Dags and Sichel

SECOND YEAR

Lectures and conferences, first semester. *Forty-eight hours.*

Laboratory, first semester. *Forty-eight hours.*

The material covered in the second year includes the physiology of secretion, digestion, excretion, nutrition, energy metabolism, internal secretions and reproduction. Considerable time is spent on endocrinology.

Drs. Daggs and Sichel

The course material is presented as a logical development of fundamental physiological concepts based on experimental evidence with a view to their ultimate clinical applications. The lectures are designed primarily to supplement the textbooks, particularly in respect to recent developments.

The laboratory has been redesigned and equipped for experimental work illustrating and developing those physiological principles fundamental to clinical medicine.

Facilities for research are available to properly qualified students to pursue investigations either independently or in cooperation with the members of the staff.

A biweekly seminar for the discussion of recent experimental work and viewpoints in the various medical sciences is sponsored by the Department in conjunction with other departments.

The course in Physiology covers a full academic year. The first half of the course is given in the second semester of the first year and the second half of the course in the first semester of the second year.

SURGERY

Professors Allen, Sabin, B. J. A. Bombard, Townsend, Ober, B. D. Adams, Maynard, Rees, Mackay, Bellerose, Hogan, Bieberbach, Truax and Cudlipp; Drs. L. G. Thabault, Gladstone, Abajian, Felton, Lilyestrom, Phelps, Scarello, Flagg, Crandall, Jastremski, Lynch, Farmer, Tully and C. E. Bombard.

SECOND YEAR

I. Recitations

A textbook, recitation and quiz course with informal discussions or lectures. An effort is made to make clear the connection between surgery and the preclinical subjects of Anatomy (including Histology), Physiology, Bacteriology and Pathology. Diagnosis is especially stressed.

The topics covered are: inflammation and repair, burns, wounds, infections and injuries to or diseases of the tendons, muscles and ligaments, bursae, vascular and lymphatic systems, osteomyelitis, and amputations;

also aseptic surgical technic and minor surgical procedures. *Sixty-four hours.*
Drs. Truax and Thabault

II. Practical Surgery

Bandaging, use of splints and other surgical appliances, work with plaster of Paris. The student applies the bandages to all parts of the body and his work is criticized by the instructor. Taught in small sections. *Ten hours per section.*
Dr. Jenks

THIRD YEAR

I. General and Regional Surgery

The course is covered largely by case histories, with prerequisite reading of textbooks or medical journals on the subject under discussion. Differential diagnosis is emphasized and operative technic minimized. *Eighty hours.*
Drs. Allen, Rees and Mackay

II. Fractures and Dislocations

Besides a routine covering of the ordinary fractures and dislocations, with the necessary diagnostic steps, including X-ray and the various procedures for their proper reduction, there is a demonstration of apparatus and its application. The occasional advisability of open reduction and internal fixation is made clear, with its dangers and advantages. The necessity of temporary splinting before transportation is insisted upon. Whenever possible, the cases in the wards are used to demonstrate the actual fracture and its treatment. X-ray films are used extensively. *Thirty-two hours.*
Dr. Maynard

III. Surgical Anatomy

This course is, to some extent, a review of the students' previous anatomical studies, with the special object of showing anatomical relationships in the more usual surgical operations such as those for hernia, appendicitis, cholecystitis, thyroidectomy, infected hands, and similar cases. *Twelve hours.*
Dr. Mackay

IV. Anesthesia

The object of this course is to give the student a theoretical knowledge of the subject before he gives the anesthetic himself (under supervision) during his fourth year. *Sixteen hours.*
Dr. Abajian

V. Clinico-Pathological Conferences

These conferences are supervised by various members of the Medical, Surgical and Pathological Departments, and are included in the text of the Department of Medicine. *Sixty-four hours.*

VI. Rectal Diseases.

A clinical demonstration and discussion of diseases of the anus, rectum and colon, is held at the Mary Fletcher Hospital on those Friday afternoons during the year when the special lecturers in Orthopedics and Dermatology are not teaching. *Sixteen hours.*

Drs. Adams and Gladstone

VII. Orthopedic Surgery

This course is under the direction of Drs. Ober, Maynard and Bellerose. Doctor Ober holds six clinics during the year at the Mary Fletcher Hospital. To these clinics are brought a number of cases from the Crippled Children's Division and a certain number from private sources. The clinic is both diagnostic and operative. The surgical section on Tuesday morning is engaged in orthopedic work under Doctor Bellerose.

Drs. Ober, Maynard and Bellerose

VIII. Urology

One hour weekly during the second semester is given to a discussion of the diseases of the genito-urinary system. *Sixteen hours.* *Dr. Flagg*

IX. Physical Diagnosis

Physical diagnosis in this year is handled by the Department of Medicine and is included under their synopsis of courses. This prevents, to some extent, the prejudging of the diagnosis of the case as either medical or surgical and serves to bring out the fact that many medical cases have surgical aspects and *vice versa*. The class is divided into sections which, on four days of each week, take histories and make physical examinations under the guidance of instructors at the Mary Fletcher, Bishop DeGoesbriand, Fanny Allen and Fort Ethan Allen Hospitals, or do the laboratory work and assistance at the Dispensary. The sections are rotated from month to month. *One hundred and twenty-eight hours.* *Drs. Allen,*

Rees, Truax, Mackay, Crandall, Gladstone, Terrien, Thabault and Jenks

FOURTH YEAR

I. Orthopedic Surgery

The surgical section on Monday and Friday mornings is primarily engaged with work in orthopedics. *Drs. Maynard and Bellerose*

II. Urology and Venereal Diseases

Sections of four students each spend a month in Worcester, Mass., where each day is given to clinical clerkships in the Department of Urology

at the Worcester City Hospital. The work is divided equally between inpatient and outpatient services. The outpatient service includes attendance at the City Clinic for Venereal Diseases. *One hundred and sixty hours.* Dr. Tully

Work in Burlington includes one morning clinic weekly in urology at the Mary Fletcher Hospital and two afternoon clinics weekly in venereal diseases. Drs. Townsend, Flagg and Farmer

III. Clinical Clerkships

The class is divided into sections which, under the supervision of the surgical teachers, act as clinical clerks and assistants in the Mary Fletcher, Bishop DeGoesbriand, Fanny Allen and Fort Ethan Allen Hospitals, and in the Dispensary or on City Service, rotating in their appointments. The class as a whole, unless unavoidably prevented, meets once a week for a surgical clinic, paper clinic or discussion, with Doctor Allen. Sections in minor surgery and diagnosis are assigned at the Dispensary, two hours a day, six days a week. *Three hundred and twenty hours.*

Dr. Allen and Staff

IV. Clinical Anesthesiology

The fourth-year students are given practical instruction in anesthesia at the Mary Fletcher, Bishop DeGoesbriand and Fanny Allen Hospitals under the direct supervision of the attending anesthetists. Each student has the opportunity of anesthetizing several cases.

Drs. Abajian and Terrien

MEDICAL RELATIONSHIPS

Lectures on medical history, ethics, economics and trends in medical practice, social service and internships.

*MEDICO-MILITARY SCIENCE

Professor Dreibelbies

BASIC COURSE

First year, lectures. *Thirty-two hours.*

Second year, lectures. *Thirty-two hours.*

ADVANCED COURSE

Third year, lectures. *Thirty-two hours.*

Fourth year, lectures. *Thirty-two hours.*

* See page 231.

The Departments of Physical Education

PHYSICAL EDUCATION FOR MEN

Professors Prentice, Post, Sabo and Gardner; Dr. Kent; Messrs. Evans and Wietz

It is the purpose of this department to provide an interesting, recreational and healthful program for the men students of the University. Physical Education is required of all students in the academic colleges who are registered in Freshman or Sophomore standing. Each new student is given a Health and Physical Examination and any defects discovered are carefully recorded. Students found to be normal take part in the regular physical education activities. Those who have physical or health defects are gathered into small groups and given special corrective work, or placed on a restricted exercise basis. This branch of the department covers diet, health habits, body and foot mechanics. Regular follow up examinations are given at frequent intervals by the Medical Director.

All students are candidates for Sigma Delta Psi, the National Athletic Honorary Society. Membership is based on performance standards in the various sports, and good academic work. This is the highest distinction that a student may attain in Physical Education at the University.

COURSES OF INSTRUCTION

1. **FUNDAMENTALS OF PHYSICAL EDUCATION.** This introductory course includes instruction in posture, marching, tactics, calisthenics, and fundamentals of the various physical and recreational activities, the development of skill in selected activities, special emphasis upon fundamental physical activities, such as jumping, striking, running, tumbling, kicking with application to various activities such as football, baseball, track and basketball. The purpose of the course is to improve coordination and endurance, to establish habits of regular exercise and to build up proper attitudes toward and interest in athletic activities.

The course is supplemented by the requirement of eight lectures on Personal Hygiene covering instruction in posture, care of the teeth and eyes; habits contributing to personal health, including bathing, clothing and exercise. These lectures give the student an understanding and appreciation of the factors necessary for health and healthful living. *Two hours (REQUIRED ACADEMIC FRESHMAN MEN).*

*Professors Post and Gardner;
Dr. Kent, Messrs. Evans and Wietz*

2. SEASONAL ACTIVITIES. The intermediate course for students in good physical condition who have completed Physical Education 1.

The program is seasonal, outdoor programs being given in the Fall and Spring and an indoor program during the Winter. Each student enrolled is required to elect one activity from each of the following lists:

Fall—Football, touch football, riding, tennis, golf, cross-country, fall track, and recreational gymnastics.

Winter—Basketball, indoor track, indoor baseball, boxing, wrestling, apparatus, tumbling, handball, badminton, volley ball, swimming, recreational gymnastics, winter sports, and skiing.

Spring—Baseball, track, softball, rugby, tennis, riding, recreational gymnastics, and swimming.

Supervision and instruction is given in each selection. *Two hours* (REQUIRED ACADEMIC SOPHOMORE MEN).

*Professors Prentice, Post, Sabo and Gardner;
Messrs. Evans and Wietz*

3. ADVANCED COURSE IN ADMINISTRATION AND COACHING.

Football Theory and Practice.—The history of the game, its educational implications. Analysis of the various systems of play. Instruction in individual and team fundamentals. Strategy, technique and generalship. Both practical and theoretical requirements. *Professor Sabo*

Administration.—Philosophical and psychological basis of athletics and physical education in educational procedure. The educational, health and recreational significance of physical education. A broad cultural view of the field. Specifically, organization of athletics, including inter-scholastic, intramural, etc., problems of finance, equipment, officials, scheduling and facilities. *Professor Prentice*

Two semester hours, first semester. ELECTIVE TO JUNIORS AND SENIORS WHO ARE ENROLLED IN CURRICULA IN EDUCATION. ELECTIVE TO SENIOR MEN IN OTHER CURRICULA BY SPECIAL PERMISSION. PREREQUISITE: PHYSICAL EDUCATION 1 AND 2. (Not offered 1940-1941.)

4. HUMAN MECHANICS AND ADVANCED COACHING.

Basketball.—Theory and practice. History and development of the game. Individual and team offense and defense. Technique of fundamentals. Analysis of various systems of play. *Professor Sabo*

Human Mechanics.—Basic anatomy and physiology to understand structure and function of the body. Diagnosis and treatment of athletic injuries. Problems of hygiene and sanitation. Elementary examination and diagnosis. Theories of training and First Aid. Practical work in massage, taping and bandaging. *Professor Prentice*

Baseball.—History and development of game. General technique of offense and defense tactics. Fundamentals and strategy.

Professor Gardner

Track.—Instruction involving a short history, rules, and traditions of the sport. Class and individual instruction in the fundamentals and techniques of the various events of the track and field program. Care and conditioning of competitors.

Professor Post

Two hours, second semester. ELECTIVE TO JUNIORS AND SENIORS WHO ARE ENROLLED IN CURRICULA IN EDUCATION. ELECTIVE TO SENIOR MEN IN OTHER CURRICULA BY SPECIAL PERMISSION. PREREQUISITE: PHYSICAL EDUCATION 1 AND 2. (Not offered 1940-1941.)

INTRAMURAL ATHLETICS

This program is closely supervised by the Department of Physical Education for men. The participation of students is voluntary. Interclass, interfraternity, and individuals compose the competing groups. An Intramural Council comprised of one representative from each competing group aids the director in making schedules and determining policy for the intramural program. All competitions carry suitable awards for the winners. Intramural contests are conducted in:

Fall—Tennis, golf, touch football.

Winter—Interclass basketball, interfraternity basketball, skating, winter sports, wrestling, boxing, handball, badminton, free throwing, annual relays, horseshoes, bowling and ice hockey.

Spring—All-college track meet, interfraternity baseball, and softball.

University Hexathlon Competition for the J. E. Donahue Trophy. Composed of six events—110-yard dash, rope climb, high jump, broad jump, shot put, and mile run. The student getting the highest score for the six events wins the Trophy and the title of the "best all-round athlete" for the year.

Interfraternity athletic competition carries points for the Traynor Trophy for both the winner and runner-up in each event.

PHYSICAL EDUCATION FOR WOMEN

Professor Eleanor S. Cummings; Miss Hazard, Dr. Katherine E. McSweeney; Miss Crowe

GENERAL STATEMENT. A medical and physical examination given by a woman physician and the department instructors is required of every entering student. On the basis of this examination, the student receives advice as to the correction of defects and direction as to her physical

activities. For all students taking required Physical Education, the examination is supplemented by periodic health conferences.

Students presenting a physician's excuse are placed in light exercise groups and given prescribed hours of rest. These students report every week for general health supervision.

Sophomores and upperclassmen have an examination of heart and lungs before entering any form of athletics.

The courses and training of the Department of Physical Education for Women are given on Redstone Campus in the Southwick Memorial Building. Available for the use of the department are two large recreation rooms, one for instruction in fundamental gymnastics and games, the other for classes in folk, tap dancing, and modern dance technique.

The athletic fields, tennis courts and play grounds for women are located nearby.

The purpose of the courses is to improve carriage, skill, health, and endurance, to establish habits of regular exercise and to give instruction in various types of recreative sports which will be useful and enjoyable during college and afterward.

The required courses for Freshmen and Sophomores include many activities which are subject to the seasonal schedules shown below:

Fall—All sports out of doors. Archery, Hockey, Tennis, Horseback Riding and Golf. The last two sports carry a moderate fee.

Winter—Fundamental Gymnastics, Corrective Work. Dancing (Folk, Modern Dance Technique and Tap). Games, Fundamentals of Basketball, Volleyball, Deck Tennis, Shuffleboard, Badminton, Archery and Golf. Basketball, Skating, Skiing, Snowshoeing and Bowling are extra-curricular sports and receive Women's Athletic Association credit.

Spring—Tennis, Archery, Soft Ball. Horesback Riding and Golf may be elected for moderate fees.

Elective courses for Juniors and Seniors are offered in Modern Dance Technique; Dance Composition, and Methods of Teaching Tennis, Hockey, Basketball and Badminton.

Outing Club hikes, tennis tournaments, Fall and Spring Field Days, and an Indoor Demonstration are conducted under the direction of the Department instructors and the Women's Athletic Association.

TWO YEARS OF PHYSICAL EDUCATION FOR TWO PERIODS WEEKLY ARE REQUIRED OF ALL COLLEGE WOMEN. THIS REQUIREMENT SHOULD BE COMPLETED DURING THE FRESHMAN AND SOPHOMORE YEARS. SUPPLEMENTARY FOR FRESHMEN IS A COURSE IN HYGIENE, ONE HOUR PER WEEK.

ENROLLMENT IN THE ADVANCED COURSES, WHICH ARE ELECTIVE, IS SUBJECT TO APPROVAL OF THE HEAD OF THE DEPARTMENT.

The Department of Military Science and Tactics

Colonel MERRILL E. SPALDING, INFANTRY, U. S. ARMY

Professor of Military Science and Tactics

Lieutenant-Colonel WILMER C. DREIBELBIES, MEDICAL CORPS, U. S.

ARMY

Professor of Medico-Military Science

Lieutenant-Colonel JAY E. GILLFILLAN, INFANTRY, U. S. ARMY

Major FRANK P. COFFIN, INFANTRY, U. S. ARMY

Assistant Professors of Military Science and Tactics

Technical Sergeant RAYMOND T. CONNER, U. S. ARMY

Staff Sergeant JAMES A. PICKETT, U. S. ARMY

Sergeant RUDOLPH P. PAPPAS, U. S. ARMY

Instructors of Military Science and Tactics

THE INFANTRY UNIT

GENERAL INFORMATION. All male students of the Freshman and Sophomore classes in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering, unless excused for adequate reason, are required to take Military Science 1 and 2 as a prerequisite to graduation from the University. They receive eight semester hours credit for these two basic courses and these credits become an integral part of the record of the student and are counted toward graduation. Military Science 3 and 4 are elective to properly qualified Juniors and Seniors.

The Military Training courses aim to acquaint students with the fundamentals of military science and tactics and to give them training in posture, bearing, courtesy, punctuality, initiative, and leadership over men. They are offered by the University with the cooperation of the Federal Government which provides arms and ammunition and officers and non-commissioned officers of the Regular Army of the United States who serve as the teaching staff in this department.

Absences from training or instruction can be excused only for physical disability or other exceptional causes. Any student who is so excused from practical or theoretical instruction will be required to make up the omitted training. Unexcused absences, and excused absences which are not made up, operate to reduce the grade given in the course.

A bond is required of each student taking Military Science. The object of this bond is to protect the University against loss or damage

as a consequence of the issue and use of military clothing, arms, and equipment while he pursues the course in Military Science. A bond in prescribed form must be executed and furnished by every student before issues can be made to him. The surety in the bond may be the parent or guardian of the student or any well-known citizen of the State of Vermont whose financial condition is known to the University officials. The witnesses to the signature of the principal and surety must be of lawful age and other than the principal or surety.

The University Corps of Cadets is organized into an infantry battalion of four rifle companies and a band, comprising a Senior Division Infantry Unit of the R. O. T. C. The officers are appointed from among the members of the Senior class, sergeants normally from among members of the Junior class, and corporals from members of the Sophomore class. Military customs and courtesies are required to be observed by students while under military instruction.

Members of the Freshman and Sophomore classes must provide themselves with the distinctive University of Vermont uniform, at an approximate cost of \$30, which will, with proper care, wear for the entire two years of the required courses. *Second-hand uniforms will not be accepted.* Members of the Junior and Senior classes taking Military Science courses wear a cadet officers' uniform which is of such pattern that it may be worn as an officers' uniform in the Reserve Corps of the Army of the United States, after graduation. Its approximate cost is \$46. Students not members of the Reserve Officers' Training Corps receive no federal aid toward meeting these expenses.

RESERVE OFFICERS' TRAINING CORPS

Students taking the courses in Military Science who are citizens of the United States, and not less than sixteen years of age, and can pass the required physical examination, may join the R. O. T. C. During the Freshman and Sophomore years, membership in the R. O. T. C. entitles a student to receive federal aid to the amount of approximately \$18 as partial compensation for the expense of providing himself with a uniform. During the Junior and Senior years, membership in the R. O. T. C. entitles a student to receive federal aid in the form of commutation of uniform (approximately \$35) and commutation of subsistence (25 cents per day) which is paid quarterly, and includes pay for holidays and vacation periods, except for the time spent at summer training camp. For the Junior and Senior years the student will thus receive more than one hundred dollars (\$100) a year. These amounts are only approximate as commutation is dependent upon annual appropriations and is subject to change.

Military Science 1 and 2 covering the Freshman and Sophomore years, comprise the "Basic Course" and Military Science 3 and 4 offered during the Junior and Senior years comprise the "Advanced Course." The Advanced Course is elective for members of the Junior class who have successfully completed the Basic Course and *who are selected for further training by the Professor of Military Science and Tactics and the President of the University.* To enroll in this course the student must agree in writing to complete the entire course of two years, and to attend the R. O. T. C. summer training camp. The summer training as now prescribed consists of one camp of six weeks' duration, which is held at Fort Devens during the summer following completion of the Junior year. Transportation to and from camp, subsistence in kind, uniforms, equipment, medical attendance, and pay at the rate of 70c per day are furnished members of the R. O. T. C. attending this camp.

Upon successful completion of the Advanced Course, qualified students are eligible to be commissioned as Second Lieutenants in the Infantry Section of the Officers' Reserve Corps of the Army of the United States. The commissions are awarded, with the University diplomas, at the graduation exercises at Commencement.

MILITARY SCIENCE COURSES

1. FRESHMAN BASIC. The outline of the instruction in this course is: Leadership, Military Courtesy, Discipline and Customs of the Service, Military History and Policy, Principles of Organization, Sanitation and First Aid, Rifle Marksmanship, and Map Reading. *Three hours.* REQUIRED OF ALL MALE FRESHMEN.

*Colonel Spalding, Lieutenant-Colonel Gillfillan and Major Coffin
Technical Sergeant Conner and Staff Sergeant Pickett*

2. SOPHOMORE BASIC. The outline of the instruction in this course is: Characteristics of Infantry Weapons, Scouting and Patrolling, Musketry, The Automatic Rifle, Combat Principles of Small Units, Leadership. *Three hours.* REQUIRED OF ALL MALE SOPHOMORES.

Colonel Spalding, Lieutenant-Colonel Gillfillan

3. JUNIOR ADVANCED. The outline of the instruction in this course is: Machine Guns, Howitzer Weapons, Pistol and Rifle Marksmanship, Aerial Photograph Interpretation, Combat Principles, Leadership, Care and Operation of Motor Vehicles, Administration, Defense against Chemical Warfare. *Five hours.* ELECTIVE TO QUALIFIED JUNIORS. PREREQUISITE MILITARY SCIENCE 2.

Lieutenant-Colonel Gillfillan and Major Coffin

4. SENIOR ADVANCED. The outline of the instruction in this course is: Military Law, American Military History, Tanks and Mechanization, Defense against Aircraft, Defense against Chemical Warfare, Signal Communications, Combat Intelligence, Combat Orders, Combat Principles, Organized Reserve Regulations, and Leadership. *Five hours.* ELECTIVE TO SENIORS. PREREQUISITE MILITARY SCIENCE 3. *Lieutenant-Colonel Gillfillan and Major Coffin*

THE MEDICAL CORPS UNIT

Professor Dreibelbies

Courses of instruction in Medico-Military Science are available to all medical students who enroll in the Medical Unit of the Reserve Officers' Training Corps. This unit has been established by the War Department on application of the University authorities and is open to male medical students who have no disqualifying physical defects. The object of the courses is to prepare students who may so elect, for commission in the Medical Reserve Corps on graduation.

COURSES IN MEDICO-MILITARY SCIENCE

There are two basic and two advanced courses each consisting of a minimum of thirty lectures each.

The basic course is designed for first and second year men and consists of instruction in Military Fundamentals, the organization of the Army and Medical Department, the tactical employment of Medical Department units with such accessory subjects as will prepare the student for a better appreciation of the advanced course which is largely preventive medicine.

COMMUTATION FOR ADVANCED STUDENTS

Certain financial benefits are allowed to those who satisfactorily complete the basic course and enroll in the advanced course. In the past, this has amounted to about one hundred dollars (\$100.00) per year. This amount may be only approximate as it is subject to annual appropriations. In addition, a summer camp is usually held at the Medical Field Service School, Carlisle Barracks, Pa. Students who complete the basic course and enroll in the advanced course are eligible to attend. The Government pays travel to and from camp, twenty-one dollars (\$21.00) per month while attending camp, plus board, quarters, clothing and medical attention.

The Curricula

The University of Vermont and State Agricultural College offers a variety of curricula in its four colleges: Arts and Sciences, Engineering, Agriculture, and Medicine. These are fully described in this section.

There are also three curricula that are given in cooperation with the Vermont State Board of Education, the degrees being voted by the Board of Trustees on recommendation of the Department of Education and the Senate Committee on Degrees. The Elementary Education curriculum and the Music Education curriculum lead to the degree of Bachelor of Education. In the Industrial Education curriculum the degree is Bachelor of Science in Education.

All baccalaureate degrees require four resident college years or the equivalent.

THE COLLEGE OF ARTS AND SCIENCES offers instruction in Art, Botany, Chemistry, Economics including Secretarial Studies, Education, English, Forestry, Geology, German, Greek, History, Home Economics, Latin, Mathematics, Mineralogy, Music, Philosophy, Physics, Political Science, Psychology, Romance Languages including French, Italian and Spanish, Sociology and Zoology. There are four group elective and five specialized curricula.

Group Elective Curricula

Classical
Literary-Scientific
Social Science
General Science and Pre-Medical

Degree

Bachelor of Arts
Bachelor of Philosophy
Bachelor of Philosophy
Bachelor of Science

Specialized Curricula

Chemistry
Business, Secretarial,
and Commercial Teaching
Secondary Education

Degree

Bachelor of Science in Chemistry
Bachelor of Science in Commerce
and Economics
Bachelor of Science in Education

THE COLLEGE OF ENGINEERING offers three curricula: Civil Engineering, Electrical Engineering, and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization.

THE COLLEGE OF AGRICULTURE offers optional curricula in five professional fields: Teaching, Plant Industry, Dairy Production, Dairy Manufactures, and Agricultural Economics, each leading to the degree of

Bachelor of Science in Agriculture. There is also a curriculum in Home Economics leading to the degree of Bachelor of Science in that subject.

THE COLLEGE OF MEDICINE offers an approved curriculum leading to the degree of Doctor of Medicine. Three or more years of college pre-medical preparation must be completed before enrollment.

The College of Arts and Sciences

GROUP ELECTIVE CURRICULA

THE CLASSICAL, LITERARY-SCIENTIFIC, SOCIAL SCIENCE, AND GENERAL SCIENCE CURRICULA are offered under the group elective plan and present opportunities for major work in almost any department or field of study that may particularly interest an individual student. By proper selection of the curriculum and wise choice of subject matter, these courses of study serve as a basis for professional and technical training, particularly in connection with education, law, journalism, dentistry and medicine. For those having no definite objective these curricula provide a liberal education in the arts and sciences yielding results in personal satisfaction, improved opportunities for success, and a greater usefulness in later life.

Students who are especially interested in languages should consider the Classical or Literary-Scientific curriculum. Those whose primary interests lie in the fields of Economics, History, Philosophy, Political Science or Psychology may choose the Social Science curriculum. The General Science curriculum is offered as a preparation for Medicine and the other scientific professions, as well as to students to whom the sciences and mathematics have particular appeal.

These curricula consist of a required group of courses to provide foundation; major and minor specialization in two related departments, to insure concentration; a group of restricted electives, to provide reasonable distribution of studies; and free electives, to provide for individual interest and self-expression.

THE REQUIRED GROUP OF COURSES, each of which must be completed by all students before graduation, are: English 1, English 2, English 26, two courses in Physical Education and either Psychology 1 or Philosophy 1-2. Military Science is required of all men during the Freshman and Sophomore years. Each course is taken for credit and this credit is an integral part of the student's record and is counted toward graduation.

A MAJOR AND RELATED MINOR is required of each student enrolled in a Group Elective curriculum. A *course* is the formal resident study of a subject for three hours a week during one college year. A *minor* consists of two and a *major* of three approved courses in the same department, normally taken in consecutive college years. A *related minor* is a minor completed in a department or subject that is considered related to the work in the department in which the required major was taken. *Group electives* are courses suggested as to their general field and chosen to satisfy the required distribution of studies. *Free electives* are courses which the student chooses to supplement the required courses and restricted group electives in sufficient amount to meet the minimum credit hour requirement for the degree.

Greek A, Latin A, Latin B, English 1 and English 2 are not counted as parts of any major, related minor or minor specified as a group elective. French 1, German 1 and Spanish 1 are counted as parts of group elective minors but are not considered as parts of the required major or related minor. At least three of the five minimum courses of the major and related minor must be taken during Junior and Senior years, and at least one course during Senior year. In the Social Science curriculum the major and related minor must be chosen from the departments of Economics, History, Political Science, Philosophy, and Psychology. In the General Science curriculum the major and related minors must be taken in Science and Mathematics. Two of the three courses of the major and the two courses of the related minor may either or both be counted as group elective minors.

THE GROUP ELECTIVES, which insure a reasonable distribution of studies, are different in each Group Elective curriculum.

The teaching departments of the College of Arts and Sciences are listed in three groups which provide the broad foundation for this distribution. These divisions are: Languages and Literatures, Social Sciences, and Science and Mathematics.

Languages—Greek, Latin, English, German, French, Spanish, Italian.

Social Sciences—Philosophy, Psychology, History, Economics, Sociology, Political Science, Education.

Sciences—Mathematics, Physics, Chemistry, Botany, Zoology, Geology, Mineralogy, Forestry.

Although Psychology is listed in the Social Science group, the course in Experimental Psychology 106 may be counted as a non-laboratory science by students who are not majoring in Psychology.

Music, omitted above, is considered a Social Science group subject to the extent that a major in it may be counted as three courses in the Social Science group. Only students in the Classical and Literary Scientific curricula may take music as the required major.

Home Economics is omitted as the courses offered may be taken only as free electives.

The system of elective studies begins with the Sophomore year. On or before May 1 of each year each student submits to the Dean a statement of the courses which he plans to take to satisfy the major, related minor and group electives of the curriculum in which he is enrolled. The choice of the major must be approved in writing by the head of the department in which the proposed courses are taught. A special form is provided for this report.

THE FREE ELECTIVES. The elective courses account for about one-third of the graduation requirement in each Group Elective curriculum. They are chosen in the last two years in sufficient amount to make the enrollment total at least thirty-one hours in the Junior and thirty hours in the Senior year.

Advanced Military Science is an acceptable free elective for men who have completed the basic courses and who have the approval of the Professor of Military Science and Tactics. Two courses are offered, each giving six semester hours credit toward graduation.

Except with special permission, no student shall enroll in more than eighteen hours per week if during the previous half-year he has obtained a grade lower than "A" in more than one-half of his work. Any student who desires to elect courses in other colleges of the University, or to take more than eighteen or less than fifteen hours per week, must obtain the approval of the Dean of the college in which he is enrolled.

The student should choose his free electives with a deliberate purpose and should make judicious additions to his major and related minor. The intensive study of some subject or group of subjects is strongly recommended.

THE CLASSICAL CURRICULUM

The entire record of each candidate for the A.B. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

An approved major and related minor.

A minor in college Greek or Latin.

A second minor either in the other classical language or in French, German or Spanish.

Three courses in the Social Sciences including not more than one in Education.

Two courses, chosen from Botany, Chemistry, Geology, Mathematics, Mineralogy, Physics and Zoology.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Greek A or 1	4-3	4-3
French 1 or 3, or German 1 or 2	3	3
Latin A or B or 1	3	3
Restricted Elective to be chosen from History 2, History 3, Political Science 1, Mathematics 1 or Natural Science	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE LITERARY-SCIENTIFIC CURRICULUM

The entire record of each candidate for the Ph.B. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

An approved major and related minor.

Latin 1.

Two minors chosen from Latin, French, German or Spanish.

Four courses from the Social Sciences.

Two courses, besides the required Mathematics 1, chosen from Botany, Chemistry, Geology, Mathematics, Mineralogy, Physics and Zoology, one of which must be a laboratory course.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Latin A or B or 1	3	3
French 1 or 3, or German 1 or 2	3	3
Mathematics 1 or a Science	3-4	3-5
Restricted Elective to be chosen from History 2, History 3, Political Science 1, a Second Modern Language or Natural Science	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOCIAL SCIENCE CURRICULUM

The entire record of each candidate for the Ph.B. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

A Social Science Department major, two related minors and one related course.

Economics 1, History 3 and Political Science 1.

Two courses chosen from French 3, German 2, Latin 1 and Spanish 2 or the completion of an advanced course in one of these departments.

Two courses in science chosen from Botany, Chemistry, Geology, Physics and Zoology; one of which must be a laboratory course.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Mathematics 1	4	4
French, German, Latin or Spanish	3	3
History 3	3	3
Political Science 1 or a Second Modern Language or Natural Science	3-4	3-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2	2	2
Economics 1 or Psychology 1 or Philosophy 1-2	3	3
Foreign Language	3	3
Laboratory Science	4-5	4-5
Group Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE GENERAL SCIENCE CURRICULUM

The entire record of each candidate for the B.S. degree from this curriculum must show the credit expressed in each of the following requirements:

The required courses.

An approved major, two related minors and one course; the majors and minors to be chosen from the departments of Botany, Chemistry, Geology, Mathematics, Physics and Zoology.

Mathematics 2 and Chemistry 1 and Physics 1.

Botany 2 or Geology 1 or Zoology 2.

A minor in French, German or Spanish.

Three courses in the Social Sciences including not more than one in Education.

Free electives in sufficient amount to complete the minimum credit for graduation.

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Mathematics 1	4	4
French 1 or 3, or German 1 or 2	3	3
Chemistry 1 or 21	4	5
Restricted Elective to be chosen from History 14, Political Science 1 or a Natural Science.....	3-4	4-5
Physical Education 1	1	1
Military Science 1 (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2	2	2
Mathematics 2	3	3
French or German	3	3
Physics 1	5	5
Group Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE PRE-MEDICAL CURRICULUM

The four-year Group Elective curricula, particularly General Science, are recommended to students who intend to study medicine. Those who wish to combine the science courses which are required for medical school admission with a Classical, Literary-Scientific or Social Science enrollment must plan the course sequences in advance in order to be sure of meeting both pre-medical and degree requirements at the end of four years.

For those choosing a shorter preparation, the seven-year combination curriculum is offered. This requires three years in the College of Arts and Sciences, the Bachelor's degree being awarded on the completion of the first year's work in any approved medical school. Students who do not secure admission to a medical college may enroll as seniors in the General Science curriculum and complete the requirements for the Bache-

lor of Science degree in that year. Combination curricula are possible in other group elective curricula, but careful planning of the enrollment is necessary during the three pre-medical years.

The synopsis of the Pre-Medical curriculum given below indicates the requirements for admission to the first year class of the College of Medicine of this University. It is based upon the group requirements of the General Science curriculum. English and Chemistry are required in each year. Two years of French or German are prescribed and, for men, two years of Military Science. Mathematics, Psychology, Physics and general and advanced courses in the Biological Sciences complete the subject matter requirements. In semester hours the minimum acceptable number for men is 107, for women 99. Students who have fewer credits, or who lack any required subject, are not eligible to apply for admission to the College of Medicine. Students who complete the three years and decide to enroll for the senior year in General Science must enroll in Mathematics 2 (Calculus).

Students who wish to prepare to become Medical Technologists are advised to enroll in the Pre-Medical curriculum for the first year. The special enrollment, necessary in the second year, is arranged in consultation with the Dean or the Registrar. Students who complete a second year, which must cover English, Language, Bacteriology, Physics, and Quantitative and Organic Chemistry, are eligible for admission elsewhere to a year of apprentice instruction which completes the training.

At the beginning of the third year all Pre-Medical students must rent or purchase an approved physician's microscope for use in the courses in Cytology and Embryology. Microscopes which meet the requirements of these courses and those later given in College of Medicine are rented and sold on both cash and installment plans at the Medical Book Store. Arrangements can be made to have rentals apply on subsequent purchase.

THE PRE-MEDICAL CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1	2	2
Mathematics 1	4	4
French 1 or 3, or German 1 or 2	3	3
Chemistry 1 or 21	4	5
Botany 1 and Zoology 1	4	4
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2	2	2
French or German	3	3
Chemistry 9 and 10 (Organic)	3	3
Physics 1	5	5
Elective or Psychology 1	3-4	3-4
Physical Education 2	1	1
Military Science 2 (Men)	2	2
THE JUNIOR YEAR	1ST HF.	2ND HF.
English (advanced course)	2-3	2-3
Zoology 7 (Embryology) and Botany 8 (Cytology)	4	4
Physical and Quantitative Chemistry	3 or 4	3 or 4
Psychology 1 or Elective	3	3
Electives	4-6	4-6

THE SPECIALIZED CURRICULA

THE BUSINESS CURRICULA

These curricula, established by the late John Heman Converse of Philadelphia, are designed especially to satisfy a demand for a broad specialized training to serve as a foundation for business careers to those who are regularly enrolled. Through expansion of some phases of the work and the curtailing of others it has been possible to carry out more fully the original intentions of the founder.

The basic curriculum is the Business option and it is recommended to those who seek training for a general business career. The Secretarial option is advised for those who wish to prepare to become business or professional secretaries. The Commercial Teaching option includes the specialized training and the courses in Education which are necessary to secure positions as teachers of commercial subjects in business or secondary schools. The degree, received on the completion of any of these options, is Bachelor of Science in Commerce and Economics.

For the earlier years of the curriculum the courses are substantially the same. In the later years the more special subjects are introduced. The only difference between the Secretarial and the Teaching options is that the latter prescribes those courses in Education that are required for teachers' certificates. These hours are open as electives for the secretarial students. It is thus possible to defer the choice until the beginning of the junior year, and in special cases the choice may be deferred until the end of the junior year.

In all modern business, special training is coming to be regarded as more and more necessary. In many quarters the college is looked to for this training. For this there exist very excellent reasons, since with a well-balanced curriculum one may combine the maximum of culture furnishing broader interests and a wider outlook on life with a maximum of special training resulting from carefully directed study in the scientific spirit of various phases of industrial activity. Such a combination is sought in the adjustment of the work.

In all the work of the department prompt attention to all duties will be expected on the part of each student. As success in business rests in a very important way upon regularity, punctuality and systematic attention to all duties, it is very necessary that constant attention be given to these. For this reason the Department insists that all duties required be performed with promptness and care. Regularity in attendance upon all exercises is held as an important requirement of the work.

The quantitative requirements of the curriculum are outlined in the following paragraphs. Modifications may be made with the approval of the head of the department to meet instances of special purpose.

THE BUSINESS CURRICULA

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1, Composition and Rhetoric	2	2
Mathematics 11, Mathematics of Finance.....	4	4
Economics 9, Economic Geography	3	3
French 3, German 2 or Spanish 2	3	3
Political Science 1, American Government.....	3	3
Physical Education 1	1	1
Military Science 1 (Men)	2	2

These subjects are supplemented by Economics 59, Filing (3 hours), and Economics 60, Business Organization and Management (3 hours), for those in the Secretarial and Commercial Teaching options.

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2, English Literature	2	2
Economics 1, Principles	3	3
Economics $\frac{6}{7}$, Economic History	3	3
Economics $\frac{2}{8}$, Business Law and Statistics.....	3	3
Political Science 3, International Relations.....	3	3
Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

These subjects are modified for commercial teaching and secretarial students by substituting Psychology 1, General Psychology, for Political Science 3, International Relations, and by enrollment in Economics 58, Business Correspondence, for the elective.

THE JUNIOR YEAR	1ST HF.	2ND HF.
Economics 10 or 11, Social Economics or Labor Problems	3	3
Economics 12, Accounting	3	3
History 12, Modern European History	3	3
Economics 2, Money and Banking	3	3
Psychology 1, General Psychology	3	3

Students in the Commercial Teaching option defer Economics 2, Money and Banking, taking Education 1, Principles (3 hours), and Education 4, Adolescent Educational Psychology (3 hours).

Students in the Commercial Teaching and Secretarial options add Economics 52, Stenography (10 semester hours), and Economics 56, Typewriting (10 semester hours).

THE BUSINESS SENIOR YEAR	1ST HF.	2ND HF.
Economics 114, Advanced Economics	3	3
Economics 3 or 4, Public Finance or Marketing	3	3
Economics 5, Corporation Finance	3	3
Laboratory Science	4-5	4-5
Elective	3-4	3-4

THE SECRETARIAL SENIOR YEAR	1ST HF.	2ND HF.
Economics 114, Advanced Economics	3	3
Economics 62/61, Office Management and Secretarial Methods	3	3
Electives	6	6
Economics 53, Advanced Shorthand	5	5
Economics 57, Advanced Typewriting	(5)	(5)

The Commercial Teaching students in the senior year follow the Secretarial enrollment except that the Electives are Economics 2, Money and Banking (6 semester hours), and Economics 63, Principles and Methods in Commercial Education (6 semester hours).

THE CHEMISTRY CURRICULUM

The curriculum in Chemistry is planned to provide a thorough training in the main divisions of chemical science, and in those other studies that contribute especially to understanding and competence in chemical theory and practice.

That it may be broadly informative, and meet more fully individual needs and tastes, the curriculum includes as full a measure of elective studies as justice to its special field allows.

The required contributory studies are confined to the first two years of the curriculum, leaving free for specialization and for election the last years, when experience and maturity give this freedom greatest value. Much of the student's thought and time in the second half of the Senior year are devoted to a simple, but rigorously followed and carefully guided original investigation.

In connection with the courses in Industrial Chemistry, students each year make trips of inspection to other laboratories and to industrial establishments.

The Chemistry Club, an undergraduate organization, and meetings of the Western Vermont Section of the American Chemical Society, often held at the University, increase fellowship and enthusiasm for scientific work.

Graduates of the Department are engaged as teachers of the science in universities and schools, as technical chemists in a wide range of industries, and as men of business in various commercial and industrial undertakings. In manufacturing enterprises that are not definitely chemical, training in an exact science, like chemistry, is recognized as of advantage.

Chemistry laboratories and supply rooms occupy three floors and the basement of the north end of the Williams Science Hall. These laboratories are modern and well equipped for experimental and research work. The department library is conveniently located in this building.

A list of the required courses and of hours free for election in the Chemistry Curriculum are given in the following paragraphs. An outline of each course is found in the Catalogue under Courses of Instruction.

Students of other curricula, who wish to do special work in Chemistry, on consultation may select one of several groups of courses, each group constituting a major in Chemistry. Those taking a major in Chemistry must maintain a favorable standing in the subject.

At the close of the Freshman year, transfer to or from the Chemistry Curriculum is readily made, without loss of credits. Students whose grades in Introductory Chemistry are not C or better at the close of the year are discouraged from entering or continuing the curriculum. Those

who become especially interested in chemistry and who show ability in the subject are welcomed.

In addition to its undergraduate courses, the facilities of the Department permit graduate work, leading to the degree of Master of Science. Students have found this further training of great value in meeting the exactions of professional work, and in gaining advanced standing toward earning the degree of Doctor of Philosophy in the larger universities. Correspondence with the head of the Department is invited regarding opportunities for graduate work, and lines of research on which members of the staff are engaged.

CHEMISTRY CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
Chemistry 1, Inorganic Chemistry.....	5	5
English 1, Composition and Rhetoric	2	2
German 11, Elementary and Intermediate	6	6
Mathematics 1, Algebra, Trigonometry and Analytics	4	4
Physical Education 1	1	1
Military Science (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
Chemistry 2-3, Qualitative-Quantitative.....	4	4
Physics 1, General Physics	5	5
Mathematics 2, Calculus	3	3
English 2, Literature	2	2
Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Chemistry 4, Advanced Quantitative	3	3
Chemistry 104, Physical Chemistry Lectures.....	3	3
Chemistry 105, Physical Chemistry Laboratory	2	2
Mineralogy 1, General Mineralogy	3	...
Geology 5, Engineering Geology .....	...	3
Electives	6	6

THE SENIOR YEAR

	1ST HF.	2ND HF.
Chemistry 8, Industrial	3	3
Chemistry 111, Organic Lectures	3	3
Chemistry 112, Organic Laboratory and Thesis	6	6
Electives	3	3

THE EDUCATION CURRICULA

THE SECONDARY EDUCATION CURRICULUM

The subjects given in this curriculum are of essential value to students who plan to enter educational work. They also have general cultural value for those who desire to elect subjects in the department. Students in Education will find it desirable to take the course entitled General Psychology before the Junior year, as this subject serves as the basis of the courses in Education.

The department offers a four-year curriculum in Secondary Education for the preparation of teachers for the junior and senior high school, leading to the degree of Bachelor of Science in Education.

Students who have fully satisfied the requirements of the first two years in a group elective curriculum may be permitted to transfer to Junior standing in this curriculum. The degree will be granted after the completion of at least sixty-one semester hours which must include any requirements not previously passed.

Students wishing to make this transfer should present a request in writing to the Dean before September 1 of the year in which they intend to make such change. This petition must be approved by the Head of the Department of Education, the Dean of the College from which the student proposes to transfer and the Dean of the College of Arts and Sciences. Such transfer will be permitted only in exceptional cases from the College of Engineering, the College of Agriculture, and the Business Curricula in the College of Arts and Sciences. In all cases the previous academic record must be such as to indicate that the student will profit from this curriculum in Education.

The requirements of the Department of Education are: General Psychology (Psychology 1) *six semester hours*; Principles of Education (Education 1) *three semester hours*; Philosophy of Education (Education 5) *three semester hours*; and History of Education (Education 2) or Educational Psychology (Education 3) *three semester hours*; and High School Administration (Education 6) or Psychology of Adolescence (Education 4) *three semester hours*; Principles and Methods in Secondary Education (Education 7) or other approved course *three semester hours*; Student Teaching (Education 8) or other approved course *three semester hours*; a full course in laboratory science *six to ten semester hours*; two majors and one minor from three departments in the College of Arts and Sciences so chosen as to give the student a suitable preparation to teach these subjects in the secondary schools; and Junior Reading (English 26).

Additional approved electives to give a further preparation in the subjects which the student is preparing to teach and to broaden the general scope of his course will be recommended or required. These electives must bring the number of credits at least to a total of one hundred twenty semester hours exclusive of English 26, Physical Education 1 and 2 and, (for men), Military Science 1 and 2.

Students planning to enter the teaching profession are urged to consult the Department of Education with reference to the selection of courses, as early as possible in their college course. In general students planning to transfer to the curriculum in Education after completing the first two years in any curriculum of the University should complete during those years: two courses in a foreign language, a laboratory course in science, Psychology 1, and a course in either History or Political Science. The Literary-Scientific, Social Science and General Science curricula are so arranged that a student may make these elections and still have freedom to start fulfilling the requirements for a major in Education.

The majors and minors taken should be chosen to correlate with the subjects that occur generally in high school curricula. The departments and subject-matter fields which are recommended are: English; the languages, especially French and Latin; the Sciences; Mathematics; History and certain Social Sciences, especially Political Science and Economics. Teachers of Agriculture and Home Economics in the public schools should also be prepared to teach a more general subject. Physical Education is a valuable supplementary major for those who have sufficient interest and ability in that field. The University offers special curricula for those preparing to teach Commercial Subjects and Music.

Any student enrolled in any of the academic colleges may, with the permission of the Dean of the college in which he is enrolled, and of the Professor of Education, be admitted to any of the courses in Education for which he is qualified. He shall retain his standing in the college in which he is enrolled and be entitled to the degree to which it leads.

A course in Student Teaching, using a public school system as a laboratory is a prerequisite to a certificate to teach in most states. While such a course is required for a degree in Education at the University, enrollment in Student Teaching is limited to those: (1) who have declared an intention to teach, (2) who have high scholastic records, (3) who show promise of becoming successful teachers.

While the curricula in Education are designed primarily to meet the requirements for certificates in the State of Vermont it is possible to meet the requirements of many other states if the department is notified prior to the Sophomore year.

SECONDARY EDUCATION CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
English 1, Composition and Rhetoric	2	2
Mathematics 1, Algebra, Trigonometry and Analytics	4	4
French or German	3	3
Education 326, Human Geography	2	2
Restricted Electives	4-6	4-6
Physical Education 1	1	1
Military Science (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
English 2, Literature	2	2
Foreign Language	3	3
Psychology 1, General	3	3
History	3	3
Electives	4-6	4-6
Physical Education 2	1	1
Military Science 2 (Men)	2	2
THE JUNIOR YEAR	1ST HF.	2ND HF.
Education 1-5, Principles and Philosophy.....	3	3
Education 2, History	3	...
Education 4 or 6, Adolescent Psychology or High School Administration .....	...	3
English Elective	2	2
English 26 .....	...	1
Electives	7-9	7-9
THE SENIOR YEAR	1ST HF.	2ND HF.
Education 7-8, Methods and Practice Teaching	3	3
English Elective	3	3
Electives	9-12	9-12

The electives suggested for the Junior and Senior years are: Art; Botany, especially Botany 14; Chemistry 1 or 21; Economics; Education 9-10; French; Geology; History; Home Economics; Latin; Mathematics; Philosophy, Political Science, Physics, Sociology and Zoology, especially Zoology 14.

THE ELEMENTARY EDUCATION CURRICULUM

This curriculum is offered by the University in cooperation with the Vermont State Board of Education. It is intended to offer an excellent preparation for teaching in the elementary schools. The degree of Bachelor of Education is given by the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and the Senate Committee on Degrees.

Students of good moral character who have been graduated from an approved high school and who satisfy the entrance requirements specified by the State Board of Education are eligible for admission if recommended by the school principal.

A student who has satisfactorily completed one year of elementary teacher preparation in this State or the first year in a standard normal school or its full equivalent, may be admitted to sophomore standing, provided the entrance requirements have been met and a satisfactory record presented.

Graduates of the former two-year curriculum, if found qualified, may be admitted to the Elementary Education curriculum in Junior standing. Such students will be given a special enrollment supplementing the courses accepted for advanced credit and will be eligible to receive the degree of Bachelor of Education after satisfactory completion of two years of resident work.

The curriculum in Elementary Education may be modified for students who wish a more highly specialized preparation in other approved fields of study. The free electives included in the outlined curriculum usually provide fully for the supplementary majors desired.

The requirements for teaching certificates in the elementary schools are gradually increasing. In the future professional advancement will be contingent upon the equivalent of four years of preparation and a bachelor's degree. Successful teachers who have earned a degree and are interested in continuing their training may obtain a plan of study after consultation with the Head of the Department.

Students who are unable to spend four consecutive years in preparation for teaching may meet the present minimum for teaching certificates in the elementary schools of Vermont by completing two years of training in this curriculum. In such cases a special two-year enrollment is required and the sequences must be carefully planned in consultation with the Head of the Department of Education.

The State Board of Education allows Vermont students an exemption from tuition payment amounting to two hundred dollars a year provided

the student signs an agreement to teach in Vermont for as long a time as the tuition is rebated. The University now grants a one-hundred dollar scholarship to such students to cover the remainder of the tuition charge of three hundred dollars. These scholarships are subject to University regulations and are not credited to students who are under warning for low scholastic record or who are on probation for any reason. Students who change to another curriculum in the University or who transfer to another institution or who fail to keep the agreement to teach in Vermont become liable to the refund of all the tuition previously rebated.

ELEMENTARY EDUCATION CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
English 1, Composition and Rhetoric	2	2
Education 321, Introduction	3	3
Education 326, Human Geography	2	2
Education 330, Penmanship	1	1
Education 328, Hygiene	2	2
Electives	9	9
Education 334, Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
English 2, Literature	2	2
Education 327, U. S. History and Civics	3	3
Education 335, Public School Music 1	2	2
Psychology 1, General	3	3
Education 323, Child Literature	1	1
Education 324, Teaching English	2	2
Electives	3	3
Education 334, Physical Education 2	1	1
Military Science 2 (men)	2	2

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Education 339, Observation and Conference.....	2	2
Education 325, Arithmetic and Methods.....	2	2
Education 322, Reading .....	...	2
Education 336, Public School Music 2	2	2
Education 1 or 3, Principles of Child Psychology	3	...
Education 5, Philosophy .....	...	3
English Elective	2	2
English 26, Junior Readings .....	...	1
Education 337, Principles of Art 1	2	2
Electives	3	3

THE SENIOR YEAR	1ST HF.	2ND HF.
Education 332, Curriculum	6	...
Education 331, Student Teaching .....	...	6
Education 341, Teaching of Art	2	2
Education 338, Applied Art 2	2	2
Education 344, Rural Education	3	3
English, an advanced course	2	2
Education 334, Physical Education Methods.....	1	1
Electives	3	3

CURRICULUM IN MUSIC EDUCATION

The University of Vermont and State Agricultural College offers this four-year curriculum in Music Education leading to the degree of Bachelor of Education. It is recommended to students who have sufficient training and natural musical ability to justify a career in music.

In order to prepare qualified teachers for positions as instructors and supervisors of music in the public schools of Vermont, qualified students from this State are accepted and trained without tuition charge. Students who were enrolled prior to January 1, 1939, are also charged one-half the established rate for the applied music courses. All students who enroll after that date pay the regular rates for this practical work. Non-resident students who are accepted, pay a tuition charge of one hundred fifty dollars a semester in addition to the charges for applied music.

Students must pass the aptitude tests given by the Department of Music and must satisfy the general admission requirements for the Elementary Education curriculum or for some curriculum offered in the College of Arts and Sciences.

MUSIC EDUCATION CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Music 1, History and Appreciation	3	3
Music 8, Sight-singing, Dictation, Theory.....	2	2
English 1, Composition and Rhetoric	2	2
German 1	3	3
French or History	3	3
Applied Music (two courses)	2-3	2-3
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Music 3, Harmony	3	3
Music 9, Advanced Sight-singing	2	2
English 2, Literature	2	2
German 2	3	3
Psychology 1, General	3	3
Applied Music (two courses)	2-3	2-3
Physical Education 2	1	1
Military Science 2 (Men)	2	2
THE JUNIOR YEAR	1ST HF.	2ND HF.
Music 4, Advanced Harmony	3	3
Education 345, Methods and Practice Teaching	3	3
Psychology 7, Aesthetics or English or Language	3	3
Education 1, 5, Principles and Philosophy	3	3
History of Art 1, 3	2	2
Applied Music (two courses)	2-3	2-3
English 26, Junior Readings .....	...	1
THE SENIOR YEAR	1ST HF.	2ND HF.
Music 11, Orchestration and Conducting	3	3
Music 10, High School Methods and Practice Teaching	3	3
English or Italian	3	3
Education or Elective	3	3
Music 12, Applied Music Methods	1	1
Applied Music (two courses)	2-3	2-3

THE CURRICULUM IN INDUSTRIAL EDUCATION

The curriculum in Industrial Education is offered by the University of Vermont and State Agricultural College in cooperation with the Vermont State Board of Education. It is recommended to students who desire to teach and supervise Trade and Industrial courses in secondary schools or in industrial concerns.

The degree, Bachelor of Science in Industrial Education, is awarded by the University of Vermont and State Agricultural College on recommendation of the Head of the Department of Education and Senate Committee on Degrees.

The program provides professional courses to meet the certification requirements for teachers of both Vocational Shop and related subjects

(mathematics, science, and drawing related to the trades) and for teachers of Industrial Arts (shop work offered in the public school as a part of general education rather than specific training for a trade or occupation as a part of vocational education), and courses for the improvement of teachers in service.

While trade experience of at least two years on a journeyman basis is required for those who expect to teach trade shop work, only one year of industrial experience is required for teachers of related subjects and for teachers of industrial arts.

Students may enroll in the Industrial Education curriculum as freshmen or in advanced standing by transfer from the College of Engineering not later than the beginning of the Junior year. Substitutions for courses regularly included in the curriculum must be approved by the Department.

THE CURRICULUM IN INDUSTRIAL EDUCATION

THE FRESHMAN YEAR

Mathematics—Mechanics 1, Advanced Algebra	2	.....
Mathematics—Mechanics 2, Plane Trigonometry	2	...
Mathematics—Mechanics 3, Plane Analytics	...	4
Chemistry 1 or 21, Inorganic	4	5
Mechanical Engineering 11-12, Mechanical Drawing	3	3
Civil Engineering 8, Engineering Materials	...	2
English 1, Composition and Rhetoric	2	2
Physical Education 1	1	1
Military Science 1 (men)	2	2
Electives	2	...

THE SOPHOMORE YEAR

Mathematics—Mechanics 4, Differential and Integral Calculus	4	4
Physics 1, General	5	5
Mechanical Engineering 23-24, Manufacturing Processes	2	2
Mathematics—Mechanics 5, Statics	...	3
English 2, Literature	2	2
Physical Education 2	1	1
Military Science 2 (men)	2	2
Electives	2	.....

THE JUNIOR YEAR

1ST HF.

2ND HF.

Mechanical Engineering 39, Industrial Metallurgy	3	...
Mechanical Engineering 33, Specialized Shop Practice	2	2
Electrical Engineering 36, Direct Current, circuits and machines.....	4	...
Electrical Engineering 37, Alternating Current, circuits and machines.....	...	4
Education 338, Applied Art.....	2	...
Industrial Education 1, Principles of Vocational Education	1	...
Education 4, Adolescent Psychology.....	...	3
Education 1, Principles	3	...
Economics 1, Elementary	3	3
Mechanical Engineering 32, Machine Drawing .....	...	3
Elective .....	...	3

THE SENIOR YEAR

1ST HF.

2ND HF.

Mechanical Engineering 43, Industrial Management	3	...
Mechanical Engineering 44, Factory Planning.....	...	3
Education 4, High School Administration.....	...	3
Industrial Education 2-3, Methods of Trade Teaching	1	1
Industrial Education 4-5, Trade Analysis	1	1
Industrial Education 6-7, Preparation of Instructional Materials	1	1
Industrial Education 8, Teaching Industrial Arts	2	2
Industrial Education 9, Observation and Directed Teaching .....	...	3
Mechanical Engineering 33, Specialized Shop Practice (continued)	4	2
Mathematics—Mechanics 6, Mechanics of Materials	3	...
Forestry 1, Wood Technology.....	3	3

The College of Engineering

The College of Engineering offers instruction in the three curricula, Civil, Electrical and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization. Each curriculum includes the general subjects: Mathematics, Chemistry, Physics, Mechanical Drawing, Elements of Electrical Engineering, Mechanics, Engineering Materials, Hydraulics, Economics, English and Contracts.

All freshman and sophomore men are required to complete the two basic courses in Military Science for a total credit of eight semester hours. These credits become an integral part of the record and are counted toward graduation. Two years of Physical Education are required of all students.

Students enrolled in the College of Engineering may become affiliated with their respective national professional engineering societies, the American Society of Civil Engineers, the American Institute of Electrical Engineers and the American Society of Mechanical Engineers, as each of these organizations has authorized a student chapter at the University of Vermont. These student organizations sponsor frequent meetings, the purpose of which is to present an opportunity for students to conduct activities similar to those conducted by members of the national societies. These activities include meetings at which technical papers are presented by students and by engineers who are actively engaged in the profession; attendance at conventions and inspection trips, all of which provide helpful contact with engineering practice and also assist in the development of the qualities of leadership which are so essential for success in the engineering profession.

THE CIVIL ENGINEERING CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 1, Advanced Algebra	2	...
Mathematics-Mechanics 2, Plane Trigonometry	2	...
Mathematics-Mechanics 3, Plane Analytics.....	...	4
Mechanical Engineering 14-15, Mechanical Drawing	3	3
Chemistry 1 or 21, Inorganic	4	5
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction	2	...
Civil Engineering 8, Engineering Materials.....	...	2
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 4, Differential and Integral Calculus	4	4
Mathematics-Mechanics 5, Statics .....	...	3
Physics 1, General Physics	5	5
English 2, Composition	2	2
Civil Engineering 1, Plane Surveying	5	...
Civil Engineering 2, Route Surveying .....	...	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2
Civil Engineering 3, Summer Engineering Camp, 4 weeks .....	...	2

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 6, Mechanics of Materials	3	...
Mathematics-Mechanics 7, Kinetics .....	...	3
Civil Engineering 4, Graphic Statics	3	...
Civil Engineering 5, Bridge Stresses .....	...	3
Electrical Engineering 36, Direct Current Circuits and Machines	4	...
Electrical Engineering 37, Alternating Current Circuits and Machines .....	...	4
Civil Engineering 6, Mapping	2	...
Civil Engineering 16, Reinforced Concrete .....	...	2
General Engineering 2, Economics	3	3
Restricted Elective	3	3
Civil Engineering 10, Summer Engineering Camp, 4 weeks .....	...	2

THE SENIOR YEAR

	1ST HF.	2ND HF.
Civil Engineering 18, Hydraulics	3	...
Civil Engineering 19, Hydraulics Laboratory	1	...
Civil Engineering 13, Bridge Design	3	3
Civil Engineering 14, Masonry Construction .....	...	3
Civil Engineering 11-12, Sanitary Engineering	3	3
General Engineering 3, Contracts and Engineering Relations	2	...
Civil Engineering 20, Highway Engineering .....	...	3
Civil Engineering 9, Materials Laboratory .....	...	2
Civil Engineering 15, Engineering Construction .....	...	2
Geology 3, Engineering Geology	3	...
Restricted Elective	2	2

THE ELECTRICAL ENGINEERING CURRICULUM

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 1, Advanced Algebra	2	...
Mathematics-Mechanics 2, Plane Trigonometry	2	...
Mathematics-Mechanics 3, Plane Analytics.....	...	4
Mechanical Engineering 14-15, Mechanical Drawing	3	3
Chemistry 1 or 21, Inorganic.....	4	5
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction.....	2	...
Civil Engineering 8, Engineering Materials.....	...	2
Physical Education 1.....	1	1
Military Science 1 (Men)	2	2
THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 4, Differential and Integral Calculus	4	4
Mathematics-Mechanics 5, Statics.....	...	3
Physics 1, General	5	5
Electrical Engineering 20, Elements.....	5	...
Electrical Engineering 21, Direct Current Machines .....	...	2
English 2, Composition	2	2
Physical Education 2	1	1
Military Science 2 (Men)	2	2
THE JUNIOR YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 6, Mechanics of Materials	3	...
Mathematics-Mechanics 7, Kinetics.....	...	3
Electrical Engineering 31, Direct Current Machines	4	...
Electrical Engineering 34-35, Alternating Current Theory	3	3
Electrical Engineering 32-33, Direct Current Laboratory	2	2
Electrical Engineering 30, Electronics.....	...	3
General Engineering 2, Economics	3	3
Mechanical Engineering 35, Thermodynamics...	3	...
Mechanical Engineering 38, Power Engineering	4

The College of Engineering

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THE SENIOR YEAR

	1ST HF.	2ND HF.
General Engineering 3, Contracts and Engineering Relations	2	...
Civil Engineering 18, Hydraulics.....	3	...
Civil Engineering 19, Hydraulics Laboratory...	1	...
Electrical Engineering 40, Electronics Laboratory	1	...
Electrical Engineering 46, Wire Communication	3	...
Electrical Engineering 47, Wire Communication or Electrical Engineering 48, Radio Communication .....	...	5
Electrical Engineering 44-45, Alternating Current Machines	3	5
Electrical Engineering 41, Power Transmission .....	...	3
Electrical Engineering 42-43, Alternating Current Laboratory	2	2
Restricted Elective	3	3

THE MECHANICAL ENGINEERING CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 1, Advanced Algebra	2	...
Mathematics-Mechanics 2, Plane Trigonometry	2	...
Mathematics-Mechanics 3, Plane Analytics.....	...	4
Mechanical Engineering 14-15, Mechanical Drawing	3	3
Chemistry 1 or 21, Inorganic.....	4	5
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction.....	2	...
Civil Engineering 8, Engineering Materials.....	...	2
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 4, Differential and Integral Calculus	4	4
Physics 1, General	5	5
English 2, Composition	2	2

Mechanical Engineering 23-24, Manufacturing Processes	2	2
Mechanical Engineering 25, Fuels and Combustion	3	...
Mathematics-Mechanics 5, Statics.....	...	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE JUNIOR YEAR

1ST HF.

2ND HF.

Mathematics-Mechanics 6, Mechanics of Materials	3	...
Mathematics-Mechanics 7, Kinetics.....	...	3
Mechanical Engineering 32, Machine Drawing .....	...	3
Mechanical Engineering 35, Thermodynamics..	3	...
Mechanical Engineering 36, Internal Combustion Engines .....	...	3
Mechanical Engineering 39, Industrial Metallurgy	3	...
Electrical Engineering 36, Direct Current Circuits and Machines.....	4	...
Electrical Engineering 37, Alternating Current Circuits and Machines.....	...	4
General Engineering 2, Economics	3	3
Restricted Elective	2	2

THE SENIOR YEAR

1ST HF.

2ND HF.

Mechanical Engineering 41, Machine Stress Analysis	4	...
Mechanical Engineering 42, Machine Design.....	...	4
Mechanical Engineering 43, Industrial Engineering	3	...
Mechanical Engineering 44, Factory Planning..	...	3
Mechanical Engineering 45, Air Conditioning..	3	...
Mechanical Engineering 47, Steam Power Plants .....	...	4
Mechanical Engineering 48, Aerodynamics.....	...	3
Mechanical Engineering 50, Seminar.....	...	2
Civil Engineering 18, Hydraulics	3	...
Civil Engineering 19, Hydraulics Laboratory.....	1	...
General Engineering 3, Contracts and Engineering Relations	2	...
Restricted Elective	2	2

The College of Agriculture

The College of Agriculture performs three public functions: it teaches, it investigates, it disseminates. These three lines of work are carried out respectively by the College as such, by the Agricultural Experiment Station and by the Agricultural Extension Service.

The College as such is supported in part by Federal funds received under the provisions of the Acts of 1862, 1890, 1907 and 1935, known respectively as the first and second Morrill Acts, the Nelson Amendment, and the Bankhead-Jones Act. It offers professional curricula in Agriculture and Home Economics.

The Agricultural Experiment Station was established by an act of the State Legislature in 1886. Its activities are supported by sundry Federal and State enactments including the (Federal) Hatch, Adams, Purnell, and Bankhead-Jones Acts of 1887, 1906, 1925 and 1935, and State laws dealing with regulatory work (fertilizer control, feeding stuffs inspection, agricultural seed inspection), and with the conduct of University farm operation and other duties. Its essential function is to conduct research in Agriculture and Home Economics, to administer certain regulatory statutes, and to publish the results of such work.

The Vermont Agricultural Extension Service was established by an act of the State Legislature in 1912. The Extension Service is a cooperative undertaking of the State of Vermont, the College of Agriculture, the United States Department of Agriculture, and the farm bureaus of the several counties of the State. It has a State staff, with headquarters at the University, and a staff of county extension agents in each county. Its purpose is "to aid in diffusing among the people . . . useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same." It works primarily with the rural people of the State, including both adults and children.

It is an aim of this College to impart to its students in agriculture such theoretical and practical training as will serve to fit them successfully to engage in agricultural pursuits, using that term in the widest sense; that is to say, including not only the conduct of operations directly or indirectly related to agriculture, but also of teaching, research or extension in agriculture. While its fundamental concept is to make agriculture and related subjects the main line of effort, the course is broad in its scope and includes mathematics, literature, sciences, and other cultural studies. The technique of the sundry operations is exemplified, so far as time, means and equipment permit, but the emphasis is laid on lectures, textbook assignments and laboratory work more than upon field operations.

THE CURRICULA IN AGRICULTURE

There are five options of the Agricultural curricula each leading to the degree of Bachelor of Science in Agriculture. These options are: the Teaching of Agriculture, Plant Industry, Dairy Production, Dairy Manufactures, and Agricultural Economics. The total number of semester hours required for the degree is one hundred forty-four for men, one hundred thirty-six for women. Men are required to complete two courses in Military Science for a total credit of eight semester hours. This credit becomes an integral part of the record and is counted toward graduation. Two years of Physical Education are required of all students. Advanced Military Science is an acceptable free elective for men who have completed the basic courses and who have the approval of the Professor of Military Science and Tactics. Two courses are offered, each giving six semester hours credit toward graduation.

AGRICULTURAL CURRICULA

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
English 1, Rhetoric and Composition	2	2
Mathematics 1, Algebra and Trigonometry	4	...
Botany 3, Agricultural Botany	3	3
Chemistry 23, General Inorganic	4	4
Zoology 4, General Zoology .....	...	4
Horticulture 1, Pomology	3	...
Animal and Dairy Husbandry 10, Dairy Manufactures 1 .....	...	3
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
English 2, English Literature	2	2
Economics 1, Elementary	3	3
Botany 11, General Microbiology	4	...
Chemistry 15, Agricultural .....	...	3
Agronomy 2, Field Crops	3	...
Animal and Dairy Husbandry 3, Live Stock	2	3
Animal and Dairy Husbandry 1, Stock Feeding .....	...	3
*Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

* Restricted; for P. I. to Botany 4, for D. M. to Animal and Dairy Husbandry 8-9, for Tch. Ag. to Poultry 1. Any one of these for D. M. and Agl. Econ.

THE TEACHING OF AGRICULTURE OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Forestry 2, Woodlot Forestry	3	3
Education 1, Principles of Instruction	3	...
Agricultural Education 2, Teaching of Agriculture .....	...	2
Agricultural Engineering 2, Electricity (or Agl. Econ. 3)	3	...
Poultry Husbandry 1, Introductory .....	...	3
Electives	5	6

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 2, Electricity (or Agl. Econ. 3)	3	...
Agricultural Education 3-5, Teaching Agriculture	5	2
Agriculture Education 10, Teaching Farm Shop .....	...	3
Education 6, High School Administration.....	...	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Elective	1	.....

Minimum credit, for this year, 32 semester hours.

THE PLANT INDUSTRY OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Agronomy 3, Advanced Field Crops (or Zoology 8)	3	.....
Poultry Husbandry 1, Introductory .....	...	3
Forestry 2, Woodlot Forestry	3	3
Horticulture $\frac{4}{5}$, Floriculture, Greenhouse Management (or Hort. 2/-)	3	3
Genetics 1, Principles	3	...
Botany 10, Plant Pathology	3	...
Electives .....	...	4

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR

	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Agronomy 3 (Adv. Field Crops) (or Zool. 8)	3	...
Horticulture $\frac{4}{5}$, Floriculture, Greenhouse Management (or Hort. 2/-)	3	3
Electives	4	4

Minimum credit, for this year, 32 semester hours.

THE DAIRY PRODUCTION OPTION

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Forestry 2, Woodlot Forestry	3	3
Poultry Husbandry 1, Introductory.....	...	3
Genetics 1, Principles	3	.....
Animal and Dairy Husbandry 6, Dairy Herd Management (or A. D. H. 7)	3	...
Animal and Dairy Husbandry 5, Advanced Stock Judging .....	...	3
Electives	5	5

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR

	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Animal and Dairy Husbandry 6, Dairy Herd Management (or A. D. H. 7)	3	...
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Electives	7	7

Minimum credit, for this year, 32 semester hours.

THE DAIRY MANUFACTURES OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Animal and Dairy Husbandry 14/11, Ice Cream, Butter (or A. D. H. 13/12)	3	3
Animal and Dairy Husbandry 15, Judging Dairy Products .....	...	2
Animal and Dairy Husbandry 18, Dairy Plant Operation .....	...	1
Electives	11	8

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics..	3	...
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Animal and Dairy Husbandry 14/11, Ice Cream, Butter (or A. D. H. 13/12)	3	3
Electives	7	4

Minimum credit, for this year, 32 semester hours.

THE AGRICULTURAL ECONOMICS OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Forestry 2, Woodlot Forestry	3	3
Agricultural Economics 4, Public Problems (or Agl. Econ. 3)	3	.....
Electives	7	10

Minimum credit, for this year, 34 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Economics 4, Public Problems (or Agl. Econ. 3)	3	.....
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Electives	10	7

Minimum credit, for this year, 32 semester hours.

THE HOME ECONOMICS CURRICULUM

The Home Economics curriculum, though essentially a professional training in household art and science, includes general cultural courses and a strong foundation in chemistry and the biological sciences. The technical courses deal with the economics of food and clothing, the esthetic and practical aspects of home furnishing, equipment and management, and the importance of the family as a fundamental unit of society.

The department operates, as a laboratory for practical experience, a well equipped management house which becomes the home of each student enrolled in this curriculum for a portion of each of the four years. The students are supervised and instructed by a member of the faculty acting as house director and the work is an integral part of several required courses.

Some of the courses in Home Economics may be elected by students who are enrolled in the group elective curricula of the College of Arts and Sciences. The four-year curriculum is given in the College of Agriculture.

HOME ECONOMICS CURRICULUM

THE FRESHMAN YEAR

	1ST HF.	2ND HF.
English 1, Rhetoric and Composition	2	2
Language, Modern or Classical	3	3
Botany 5, Introductory .....	...	4
Chemistry 22, General Inorganic	5	5
Home Economics 1, Survey	1	1
Home Economics 7, Applied Design	3	...
Home Economics 8, Clothing 1 .....	...	3
Zoology 3, Elementary	4	...
Physical Education 1	1	1

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
English 2, English Literature	2	2
Language, Modern or Classical	3	3
Economics 1, Elementary	3	3
Chemistry 19, Outlines of Organic	3	...
Chemistry 20, Chemistry of Foods .....	...	3
Home Ec. 2, Selection and Preparation of Foods	3	3
Home Economics 11, Household Equipment.....	3	...
Home Economics 26, Interior Decoration.....	...	3
Physical Education 2	1	1

THE JUNIOR YEAR	1ST HF.	2ND HF.
Psychology 1, General	3	3
Education 1, Principles	3	...
Zoology 13, Human Physiology	3	...
Home Economics 9, Clothing 2 .....	...	3
Home Economics 10, Textiles	3	...
Home Ec. 3, Preparation and Serving of Meals	3	...
Botany 13, Household Microbiology	3	...
Home Economics 5, Diet and Nutrition.....	...	5
Home Economics 12, Household Management...	...	3
Restricted Elective .....	...	3
THE SENIOR YEAR	1ST HF.	2ND HF.
History 3 or 12, European History	3	3
Home Economics 16, Methods of Teaching†.....	2	1
Home Economics 17, Student Teaching†.....	.....	3
Home Economics 15, Child Care.....	...	2
Home Economics 25, Pre-School Child.....	...	3
Home Economics 13, The Family	3	...
*Electives	9	3

The College of Medicine

The College of Medicine of the University of Vermont is one of the oldest institutions of its kind in the United States. For over a century it has served the State and the Nation by sending out its graduates to every part of the Union.

The College of Medicine is a member of the Association of American Medical Colleges and is on the approved list of the Council on Medical Education and Hospitals of the American Medical Association. The excellent record of the graduates of this college and the high standing of the institution is, in large measure, the result of the intensive instruction given in small sections in lecture, laboratory and clinic.

OUTLINE OF THE FOUR-YEAR CURRICULUM

The curriculum has been arranged so that the study of the several branches of Medicine is taken up in a systematic way.

* The technical electives recommended are: Chemistry 24, Bio-chemistry; Home Economics 20, Advanced Clothing; Home Economics 21, Child Nutrition; Home Economics 22, Readings in Nutrition; Home Economics 27, The Related Arts.

† For those preparing to teach; others may substitute approved electives.

The student is taught first the general structure of the body, its embryological development, the functions of the various organs, the chemical processes taking place in the body and the minute structure of the tissues and organs in health.

Then follows consideration of the changes in gross and microscopic anatomy, the variations in the chemical processes and in the functions of organs and tissues under the influence of disease, how such changes give rise to different symptoms and physical signs and the methods of interpreting such findings in arriving at a diagnosis.

The student is then taught the methods of investigating diseases, their causes and prevention, as well as the remedies used in their treatment. The various surgical conditions are considered, the indications for treatment or operations, and the technique of operating. Reproduction and development are studied and the diseases of pregnancy as well as the management of labor.

Instruction is given by lectures, demonstrations, recitations, practical courses, laboratory work, clinics and clinical teaching at the bedside, and in the Dispensary. For clinical work the class is divided into small sections so that each student receives the personal attention of the instructor.

The work of the First Year includes the study of Anatomy, Physiology, Physiological Chemistry, Histology and Embryology, and Radiology.

The courses in Anatomy and Physiology have been graded to cover two years, the work of each year being practically complete in itself.

Laboratory courses are given in Anatomy (dissecting), Histology, Embryology, Physiology and Chemistry.

During the Second Year the study of Physiology is completed. Courses are given in Materia Medica, Pharmacology, Pathology, Bacteriology, Surgery, Bandaging, Medicine, Toxicology, Obstetrics, Radiology, Hygiene, Psychobiology and Psychopathology. Laboratory courses are given in Anatomy, Pathological Histology, Clinical Pathology, Physiology and Bacteriology. One two-hour period each week is devoted to a correlation conference wherein suitable cases are presented jointly by the Department of Medicine and the preclinical departments. These clinics review the more important phases of all the preclinical sciences and illustrate by clinical studies their direct application to practice. They serve, at the same time, to introduce the student to clinical problems.

The work of the Third Year includes Surgery, Obstetrics, Special Pathology, Therapeutics and the various special subjects of Medicine and Surgery.

Ward work in physical diagnosis is begun in this year. Students are assigned in small sections to the wards of the four hospitals connected with the College. They take histories of the cases assigned to them, make

physical examinations under proper supervision, and later present the case before the section for criticism by the instructor.

Weekly conferences of two hours are again held throughout the year to stress the correlation between the preclinical studies and the problems of clinical practice. The Third Year conferences necessarily place more stress on the clinical aspects of the cases studied but are, on the whole, so planned and executed as to develop the diagnostic and therapeutic problem to the fullest extent. The conference closely approaches the now widely used clinical-pathological conference, but retains for review and correlation purposes more of the preclinical aspects than are generally found in similar plans.

In addition to the work in physical diagnosis, practical courses in minor surgery and manikin exercises in obstetrics are offered.

The Fourth Year is devoted largely to the study of clinical diagnosis and the treatment of disease, the work being done at the general hospitals and the Dispensary.

The class is divided into sections, usually of four students each, which are assigned to various services in rotation. These services include medical, surgical, pathological and specialties at the hospitals; medical, surgical and specialties at the Dispensary, as well as obstetrics and pediatric work at the Wesson Maternity Hospital and the Elizabeth Lund Home; outpatient service with city physicians; a week each at the State Hospital for mental disease at Waterbury and the Vermont Sanatorium for tuberculosis at Pittsford; and four weeks divided between inpatient and outpatient work in urology at the Worcester City Hospital, Worcester, Mass. The service at Worcester is arranged to include ward work in pediatrics and attendance at the outpatient clinics for dermatology.

The correlation conferences of the second and third years are replaced in the fourth year by weekly medical and surgical ward rounds in the general hospitals. Clinical presentation of selected cases from both services is carried out by the resident and attending staff. Grand ward rounds are held weekly in which teaching material from all services is brought to general discussion. Clinical-pathological conferences are scheduled weekly and are employed as elsewhere for the fullest amount of teaching possible from a complete and final study of selected cases. All services participate in both grand ward rounds and the clinical-pathological conferences.

During this year the students are required to assist at autopsies under the instruction of the Professor of Pathology, and to make such microscopic study of the tissues removed as may be of value in understanding the pathological history of the case.

CLINICAL FACILITIES

THE MARY FLETCHER HOSPITAL. This general hospital of 150 beds has been associated with the Medical School for teaching purposes since 1879. All medical and surgical services are represented. The hospital averages well over 5,600 cases yearly, of which fully two-thirds are available for teaching purposes through the use of free and part-pay beds, and through the private cases of attending staff men who are connected with the College in a teaching capacity. The hospital carries the approval of the American Medical Association for residences in specialties.

THE BISHOP DEGOESBRIAND HOSPITAL. The Bishop DeGoesbriand Hospital, operated by the Sisters of St. Joseph, was completed in 1924. This fully modern and completely equipped institution is located on the west side of the College Green and directly across the corner from the Medical College. It is fully approved for interne training. Arrangements are now fully effective in this general hospital for the use of service cases and certain private cases, for Third and Four Year teaching. The hospital averages over 3,700 cases annually. Its capacity is 122 beds, of which only 43 are allocated for use by private patients. All services are represented. Members of the attending staff hold teaching positions in the College.

THE STATION HOSPITAL, FORT ETHAN ALLEN. The clinical facilities of this hospital are used by the College to the fullest extent. Far from presenting the average type of clinical material to be found in Station Hospitals of the Army, the teaching material afforded the school by this institution through its services to the personnel of Fort Ethan Allen, the regional camps of the Civilian Conservation Corps, and emergency hospitalizations for beneficiaries of the Veterans' Facility and Works Progress Administration, is most varied in its scope. The hospital averages more than 1,700 cases yearly, the average daily census being 102. The medical services yield an abundance of the more severely acute forms of respiratory and cardiac infections, together with a fully representative amount of functional diseases of various descriptions. The surgical division, in addition to the usual service, presents a very considerable number of traumatic cases including a wide variety of fractures and dislocations. Members of the commissioned personnel hold appointments in the College and take an active part in the teaching of the sections assigned to their charge. Fort Ethan Allen is within four miles of the College and is easily reached by bus or private car.

THE FANNY ALLEN HOSPITAL, WINOOSKI. This hospital, the smallest of those associated with the College, presents an unusually large and varied amount of teaching material in the 1,150 cases admitted there yearly.

Practically all of these are service cases. The attending staff hold teaching appointments in the College and take charge both of Third Year ward work and Fourth Year clinical clerkships. Fourth Year men assigned to this hospital assume, under close supervision by the teaching staff, the full duties of internes. Two Fourth Year men are assigned monthly to this hospital. A section of four Third Year men are assigned there for ward work in physical diagnosis.

THE WORCESTER CITY HOSPITAL, WORCESTER, MASS. Clinical clerkships in urology in both outpatient and inpatient services, including work in the Venereal Disease Clinic of the City of Worcester, are available to sections of four men from the Fourth Year Class assigned to this service on a monthly basis. The service is under the direct supervision of attending men who hold teaching appointments in the College. On assignment to this service, students take up residence for a month in Worcester. Their work with this hospital is on a day-around basis. The service averages 900 inpatient and 3,600 outpatient cases annually, with but little month to month variation.

Students on the Worcester service are also assigned to the outpatient clinics for skin diseases, an active service of 1,886 cases yearly. The work is also arranged to include inpatient and outpatient clerkships in pediatrics as a supplement to the teaching in pediatrics in Burlington and at the Wesson Maternity Hospital in Springfield, Mass.

OBSTETRICAL SERVICE. The College maintains a maternity ward at the Mary Fletcher Hospital, to which students are assigned in rotation.

The Elizabeth Lund Home, as well as the ward at the above-named hospital, is under the immediate direction of the Professor of Obstetrics of the College, insuring the closest possible contact and correlation of didactic and clinical instruction. Students attend prenatal and post-natal clinics at the Elizabeth Lund Home and the Burlington Free Dispensary. Cases of labor are attended at the Mary Fletcher Hospital, the Elizabeth Lund Home and in the Outpatient Department. Patients are assigned to individual students who, under the supervision of a clinical instructor, act as labor clerks, taking histories, making general physical and obstetrical examinations and keeping detailed records. The labor clerk observes or assists at the actual deliveries. Students are assigned to section work for a period of four weeks. During the past year the service handled 330 teaching cases.

WESSON MATERNITY HOSPITAL, SPRINGFIELD, MASS. Arrangements are now in effect to allow for resident clinical clerkships in obstetrics at the Wesson Maternity Hospital in Springfield, Mass. Three men are assigned there in rotation for a month's service, as a part of the clinical services

in the Fourth Year. The work includes service in the pre- and post-natal clinics maintained by the hospital; work in the laboratory, where blood-bank service is particularly emphasized and supervised participation in deliveries both normal and abnormal. The service averages between fifty and sixty patients per month, the student participating in from fifteen to twenty deliveries in each instance. Care of the new-born, both premature and full term, is included in the service at the Wesson Maternity Hospital in Springfield, Mass.

Students may avail themselves of the training in practical obstetrics offered during the summer months by the Berwind Clinic in New York City. These appointments are made for a period of three weeks during the summer, between the Third and Fourth Years.

PEDIATRICS. The wards of the local hospitals, the Vermont Home for Destitute Children, the Elizabeth Lund Home and the St. Joseph's Orphanage, together furnish a total of over four hundred children. In addition, there are at the Caverly Preventorium forty-eight and at the Brandon State School three hundred children. The medical service of each institution is under the direction of a member of the teaching staff of the College. Supplementary work at the Wesson in Springfield and at the Worcester City Hospital completes the service.

VERMONT STATE HOSPITAL, WATERBURY. This institution with 1,035 beds is of sufficient capacity to make it possible for the teacher to carry out what is regarded by many as an ideal method of teaching a clinical subject; that is, by arrangement of subject matter in such a manner as to give it the order and emphasis it properly deserves in finding in the hospital at the moment cases illustrative of that subject. Students are given one week of intensive instruction in residence, by the chief of the staff, who is also Professor of Psychiatry in the College.

THE VERMONT SANATORIUM AND CAVERLY PREVENTORIUM, PITTSFORD. The Vermont Sanatorium for incipient and early tuberculosis with eighty beds and the Caverly Preventorium for undernourished children with forty-eight beds, both located at Pittsford, are under the immediate supervision of an officer of the faculty of the College.

In these institutions, in addition to the didactic and clinical instruction the student receives at the various general hospitals and dispensaries, he receives in residence intensive instruction in tuberculosis, free from the disturbing influences of the larger general institution, and from larger groups of students attending them. The fullest advantage possible is taken of the opportunity for individual or personal teaching, by a teacher of special training in his subject.

BRANDON STATE SCHOOL. Small sections are assigned to week-end trips to the Brandon State School for clinical demonstrations. These clinics are in charge of the State Psychiatrist and are offered to supplement the clinic in mental hygiene conducted at the Dispensary in Burlington.

DISPENSARIES. Two dispensaries are maintained by the College: one at the Mary Flecher Hospital, and one at 174 Pearl Street. The College has recently leased commodious quarters for its outpatient work in the building at the latter address, for many years occupied by the Howard Relief Society. In addition to a complete renovation of the two floors used for outpatient service, the College has at considerable expense re-equipped the services offered there. During the fiscal year ending June 30, 1939, the Dispensary handled 14,984 patients in the following services: 1,655 medical; 2,170 surgical; 834 pediatrics; 625 dermatology; 524 gynecology; 674 pulmonary; 318 syphilology; 634 physiotherapy; 668 orthopedics; 202 urology; 665 prenatal and postnatal; 349 allergy; 1,454 eye, ear, etc.; 3,374 dental. The arrangement whereby the Howard Relief Society, the Visiting Nurses Association and the Vermont Children's Aid will continue to be housed in the same building, affords a most useful correlation of medical service work and allows the students attending the services ample opportunity to familiarize themselves with organized welfare work, both State and voluntary.

By arrangement between the Department of Charities of the City and the College, the sick poor both ambulatory and "bed" cases are committed to the care of the authorities of the College. A director with a competent staff is in charge of both interne and externe services. Senior students are assigned definite duties in rotation to both interne and outside services, under the personal supervision of a competent officer.

Register, 1939-1940

RESIDENT GRADUATE STUDENTS

- *Theis Eleanor Aitken, B.S. (VERMONT), *Chemistry*, 32 Nash Pl., Bethel.
George Howard Beardsley, B.S. (VERMONT), *Education*, Rutland.
Loren Otis Bishop, B.S. (VERMONT), *Education*, Shelburne.
Lucy Mary Brigham, PH.B. (VERMONT), *French*, 312 Colchester Ave., Morrisville.
Mrs. Merta Munro Brookings, B.S. (VERMONT), *English*, 132 Colchester Ave., Burlington.
†Roy Ivan Brooks, B.S. (VERMONT), *Agronomy*, R. F. D. 2, Burlington.
*Burton Primrose Brown, Jr., B.S. (COLORADO), *Electrical Engineering*, 34 Henderson Ter., Denver, Colo.
Theodore Peter Budzyna, B.S. (VERMONT), *Education*, 343 College St., East Douglas, Mass.
Basil Harte Candon, B.S. (FORDHAM), *Histology*, 272 Colchester Ave., Burlington.
†Gordon Lewis Chapman, B.S. (MAINE), *Forestry*, 307 Colchester Ave., Portland, Me.
*Jack Lewis Cohen, B.S. (VERMONT), *Chemistrr*, 173 Intervale Ave., Burlington.
John Philip Crispell, B.S. (PENNSYLVANIA STATE COLLEGE), *Biochemistry*, 17 Russell St., Dallas, Pa.
Elizabeth Marcy DeForest, A.B. (MOUNT HOLYOKE), *Zoology*, 327 S. Prospect St., Burlington.
*Roland John Delfausse, PH.B. (VERMONT), *Economics*, 161 Pearl St., Burlington.
Jeanne Newman Dennis, PH.B. (VERMONT), *English*, 196 S. Union St., Plainfield, N. J.
†John Durrance Dodd, B.S. (SYRACUSE), *Cytology*, 59 Buell St., Tuxedo Park, N. Y.
*Paul Fredric Fenton, B.S. (ROCHESTER), *Biochemistry*, 64 Greene St., Rochester, N. Y.
Norma Lois Fletcher, B.S. (VERMONT), *French*, 93 Buell St., Orleans.
Charles Elmer Harmon, B.S. (VERMONT), *Mathematics*, 243 Colchester Ave., Island Pond.
Robert Bernard Hart, B.S. (VERMONT), *Economics*, 228 Maple St., Burlington.
*Irwin Platt Hooper, B.S. (TUFTS), *Mechanical Engineering*, 37 N. Prospect St., Cleveland Heights, Ohio.
George Francis Howley, PH.B. (ST. MICHAEL'S COLLEGE), *Education*, Rutland.
‡Harold Larned Hutchins, Jr. (VERMONT), *Bacteriology*, 188 Cliff St., Hamden, Conn.
*Edward Jacobson, PH.B. (VERMONT), *Political Science*, 31 S. Willard St., Salisbury.
†Robert Jenness, B.S. (NEW HAMPSHIRE), *Dairy Manufacturing*, 60 Colchester Ave., Dover, N. H.
Margaret Olive Columbia Krogman, B.S. (NEW YORK UNIVERSITY), *Education*, 97 Bank St., Burlington.
Ralph Caldwell McWilliams, B.S. (PENNSYLVANIA STATE COLLEGE), *Dairy Husbandry*, St. Albans.
John Joseph Mayernik, B.S. (RUTGERS), *Agronomy*, 41 University Ter., New Brunswick, N. J.
Elmer Lyle Nicholson, B.S. (VERMONT), *Education*, 238 College St., Pittsfield.
†Dorothy Dale Nuetzman, B.S. (NEBRASKA), *Home Economics*, 59 N. Willard St., Lincoln, Neb.
*Paul Charles Rand, B.S. (VERMONT), *Physics*, 83 Loomis St., Burlington.
†William Ray Ratledge, B.S. (DELAWARE), *Botany*, 59 Buell St., Wilmington, Del.
* Research Fellow.
† Experiment Station Fellow.
‡ B.S. degree to be awarded June, 1940.

Harriette Louise Riddell, B.S. (VERMONT), *Mathematics*, 103 N. Union St., Williamstown.
 Marvin Paul Sheldon, B.S. (CITY COLLEGE NEW YORK), *Experimental Embryology*, 88 N. Willard St., Brooklyn, N. Y.

*Arthur Parmelee Silvester, B.S. (VERMONT), *History*, 60 N. Prospect St., Burlington.
 Harold Leonard Simmons, Jr., B.S. (VERMONT), *Zoology*, 16 Mansfield Ave., New Bedford, Mass.

*Jane Elizabeth Slater, A.B. (ROCHESTER), *French*, 239 S. Prospect St., Massena, N. Y.

†Lorne Thomas Sonley, B.S.A. (ONTARIO AGRICULTURAL COLLEGE), *Agricultural Economics*, 60 N. Prospect St., Manila, Ont., Canada.

Elizabeth Esther Vaughan, A.B. (MIDDLEBURY), *Education*, 50 Ledge Rd., Burlington.

*Hezekiah Goodwin Webster, Jr., B.S. (CORNELL), *Dairy Manufacturing*, 60 Colchester Ave., Weedsport, N. Y.

‡Theresa Ottilia Weiss (VERMONT), *Education*, 403 College St., North Bergen, N. J.

William Dustin White, Jr., B.S. (VERMONT), *Education*, 206 Maple St., Ryegate.

Robert Edward Wilson, B.S. (VERMONT), *Education*, 68 S. Union St., Greensboro.

GRADUATE STUDENTS IN THE SUMMER SESSION

Crawford McGinnis Adams B.S. (VERMONT), *Education*, Groton.

Stella Marion Adams, B.S. (NEW HAMPSHIRE), *Education*, Hebron, N. H.

Howard S. Allen, B.S. (WOOSTER), *Education*, Xenia, Ohio.

Clarence Frank Amsden, B.S. (VERMONT), *Education*, Greensboro.

Dorothy Hunt Bailey, A.B. (WELLESLEY), *Education*, McIndoe Falls.

Coletta Barrett, PH.B. (VERMONT), *Latin*, Watertown, Conn.

Mary A. Barrett, A.B. (TRINITY), *Education*, Hydeville.

Sister Mary Jerome Barry, A.B. (VILLANOVA), *Education*, Rutland.

Roger Freeman Barton, A.B. (NEW HAMPSHIRE), *Education*, Orleans.

Barbara Reed Bicknell, A.B. (WELLESLEY), *Mathematics*, S. Weymouth, Mass.

Willard Henry Blaisdell, B.S. (IOWA STATE), *Education*, Enosburg Falls.

Guy Franklin Blake, A.B. (UNIVERSITY OF PENNSYLVANIA), *Education*, Norwalk, Conn.

Charles Phillips Boright, B.S. (VERMONT), *English*, Newport.

Lucile Blanchard Boyd, A.B. (BROWN), *English*, Barre, Mass.

Gertrude Elizabeth Branon, PH.B. (VERMONT), *French*, Burlington.

Donald Wesley Brewster, B.S. (NEW HAMPSHIRE), *Education*, W. Lebanon, N. H.

Frank MacLlewellyn Bryan, A.B. (YALE), *Education*, Montpelier.

Jerome Quincy Bullis, B.S. (VERMONT), *Education*, Milton.

Eugene George Burnkrant, A.B. (DARTMOUTH), *Education*, Marshfield, Wis.

May Anne Campbell, PH.B. (VERMONT), *Education*, Lyndon Center.

Mary Elizabeth Carroll, PH.B. (VERMONT), *English*, Burlington.

Helen Spinney Carter, B.A. (WISCONSIN), *Education*, W. Burke.

Belle Louise Church, A.B. (VERMONT), *Mathematics*, Richmond.

Robert Wellington Chutter, B.S. (VERMONT), *Education*, Pittsford.

Eugene Henry Clowse, PH.B. (VERMONT), *Education*, Richmond.

Elizabeth Martha Collins, B.S. (VERMONT), *History*, Burlington.

Harold Campbell Collins, B.S. (VERMONT), *Education*, Lyndon Center.

Beatrice Irene Colvin, B.ED. (RHODE ISLAND COL. ED.), W. Warwick, R. I.

Sister Mary Regis Conlin, B.A. (ST. ROSE), *Education*, Rutland.

* Research Fellow.

† Experiment Station Fellow.

‡ B.S. degree to be awarded June, 1940.

- John Thomas Conway, B.S. (VERMONT), *Education*, New London, Conn.
 Irene Emily Cook, A.B. (MT. HOLYOKE), *Education*, Sanbornville, N. H.
 Ruth Donelson Coombs, A.B. (MT. HOLYOKE), *English*, Shelburne Falls, Mass.
 Mary Elizabeth Coughlin, A.B. (LADY OF ELMS, CHICOPEE), *Education*, Greenfield, Mass.
 Gladys Hogaboom Crockett, B.S. (VERMONT), *History*, New Britain, Conn.
 Lorraine Bertha Cushman, A.B. (N. Y. ST. COL. FOR TEACHERS), *Science*, Bolton Landing, N. Y.
 M. Edward Dakin, B.A. (WILLIAMS), *Education*, Sharon, Conn.
 Elizabeth Vinton Davis, A.B. (GOUCHER), *English*, Annapolis, Md.
 Robert Power Davison, B.S. (VERMONT), *Education*, Burlington.
 Jessie Evelyn Dayton, A.B. (HOOD), *Education*, Basking Ridge, N. J.
 Mary Louise Dee, A.B. (COLLEGE OF MT. ST. VINCENT), *English*, Hancock, Mass.
 George Vance Drabble, A.B. (BATES), *Education*, Rochester.
 Mrs. Irene Harvey Durkee, B.A. (TRINITY), *French*, Waterbury.
 Stella Hughes Durkee, B.E. (CASTLETON), *Education*, Castleton.
 Grace Margaret Durling, B.S. (TEMPLE UNIVERSITY), *Education*, Elizabeth, N. J.
 Elma Janet DeBrune, A.B. (VERMONT), *French*, Greensboro.
 Clinton Willard Demeritt, B.S. (MIDDLEBURY), *Education*, Burlington.
 Ellen Elizabeth Donovan, A.B. (NEW ROCHELLE), *Education*, Bristol.
 Daniel Bryan Dyer, B.S. (VERMONT), *Education*, Essex Junction.
 Loretta Emeroy Dyke, B.S. (VERMONT), *English*, Burlington.
 Ralph Avery Eaton, B.S. (NORWICH), *Education*, Morrisville.
 Thomas Eccleston, Jr., PH.B. (MICHIGAN), *Education*, Harrisville, R. I.
 Arthur Benjamin Elliott, A.B. (MICHIGAN), *Education*, Derby.
 Winifred Gladys Ellis, B.A. (MT. HOLYOKE), *English*, Northfield.
 Lenore M. Farnham, B.A. (HEIDELBERG), *History*, Napoleon, Ohio.
 Jerome Hale Farwell, B.S. (VERMONT), *Education*, Burlington.
 Madeline Mary Flynn, A.B. (COLLEGE OF ST. ROSE), *English*, Rutland.
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KEY TO ABBREVIATIONS

Ag, Agriculture.
 Bus, Business.
 CE, Civil Engineering.
 Ch, Chemistry.
 Cl, Classical.
 CT, Commercial Teaching.
 EE, Electrical Engineering.
 ElEd, Elementary Education.
 GS, General Science.
 HE, Home Economics.

LS, Literary-Scientific.
 ME, Mechanical Engineering.
 Med, Medical.
 MusEd, Music Education.
 PM, Pre-medical.
 Sec, Secretarial.
 SEd, Secondary Education.
 SS, Social Science.
 Sp, Special.

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Mary Jane Hammond, LS, *Kappa Alpha Theta House*, New York, N. Y.
Richard Gerard Healy, Bus, *Kappa Sigma House*, Lynbrook, N. Y.
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Anton Jacob, Jr., PM, 128 *Colchester Ave.*, Bridgeport, Conn.
Howard Hinman Jacobs, PM, 96 *Henry St.*, Enosburg Falls.

- Kenneth William Johnson, *Bus*, 155 Loomis St., Winchester, N. H.
 Fleda Angie Jones, SS, 159 Loomis St., Morrisville.
 Joseph Louis Kamber, PM, *Phi Sigma Delta House*, Manchester Depot.
 Jacob Kaplan, SS, 95 Hyde St., Burlington.
 Francis Alan Kennedy, PM, 98 Brookes Ave., St. Albans.
 Robert Pardon Kenney, SS, *Delta Psi House*, Auburn, R. I.
 Allan Grenville Kidd, SS, 268 Colchester Ave., Northfield.
 Harriet Lina Kieslich, Sec, 167 North Ave., Burlington.
 Philip Safford Killoran, SED, *Essex Junction*, Essex Junction.
 Olga Kish, CT, *Campus House*, Florence.
 Harriet Beatrice Koble, CT, *Redstone*, Witherbee, N. Y.
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 Raymond Francis Laramie, *Bus*, M. Converse Hall, Fair Haven.
 Nona Agnes Lathrop, Sec, *Prospect House*, Bristol.
 Ralph Joseph Lavigne, PM, 16 North Ave., Burlington,
 Mary Elizabeth LePage, LS, 49 Mansfield Ave., Barre.
 Meyer Jacob Levin, SS, 121 Mansfield Ave., Burlington.
 Robert Levine, PM, *Phi Sigma Delta House*, Brooklyn, N. Y.
 Harvey Turner Lippe, GS, *Phi Sigma Delta House*, Burlington.
 William Ray Lyman, Ch, 71 S. Willard St., S. Londonderry.
 Richard George Lynch, PM, 220 Main St., Burlington.
 Jane Elizabeth Lyons, SS, *Pi Beta Phi House*, New York, N. Y.
 Henry Hill McGinty, GS, 231 S. Prospect St., E. Killingly, Conn.
 George Robert McKee, LS, 60 N. Prospect St., Montpelier.
 Ellen Rhoans Macomber, LS, 565 Main St., N. Troy.
 John Paul Mahoney, PM, 98 Brookes Ave., Stoneham, Mass.
 Donald William Maley, SED, 368 Main St., Great Barrington, Mass.
 Armstrong Maltbie, SED, 139 Mansfield Ave., Brant Lake, N. Y.
 Gertrude Louise Mann, SS, *Kappa Alpha Theta House*, Newton Center, Mass.
 Elizabeth Pauline Marshall, CT, 28 Wilson St., Burlington.
 Joseph Raymond Massucco, PM, *Sigma Alpha Epsilon House*, Bellows Falls.
 Grace Meeken, GS, *Pi Beta Phi House*, Portland, Me.
 Maywood Almira Metcalf, LS, *Pi Beta Phi House*, Waterbury.
 Margaret Emma Moody, Sec, *Slade Hall*, Waterbury Center.
 Irene Lucy Newton, GS, 49 Mansfield Ave., W. Hartford.
 Harry William Noyes, SED, *Alpha Tau Omega House*, N. Bennington.
 Floyd Richard Olson, *Bus*, 162 Loomis St., Burlington.
 Henri Louis Pache, PM, 544 S. Willard St., Burlington.
 Evelyn Patricia Paciulli, LS, *Fort Ethan Allen*, Fort Ethan Allen.
 Christopher George Palans, PM, 92 Main St., Burlington.
 Louis Fabien Pine, PM, 483 North St., Burlington.
 William Arthur Pratt, PM, *Phi Delta Theta House*, Rutland.
 William Irving Pye, *Bus*, *Sigma Nu Lodge*, Pittsford.
 Jonathan Buckminster Ranney, PM, 37 N. Prospect St., Long Island City, N. Y.
 Earl Greene Reed, *Bus*, 260 Main St., Oakfield, N. Y.
 Milton Paul Reiser, PM, *Phi Sigma Delta House*, Roxbury, Mass.
 Floyd Charles Rising, SED, *Sigma Alpha Epsilon House*, White River Junction.
 Edgar Franklin Roby, *Bus*, *Delta Psi House*, Montpelier.
 Eileen Frances Rooney, CT, *Alpha Xi Delta House*, St. Albans.
 Ivan Booth Ross, PM, *Kappa Sigma House*, St. Albans.
 John Russell Royer, *Bus*, *Kappa Sigma House*, Westfield, N. J.

Miriam Barger Rubin, SS, *Redstone*, Brockton, Mass.
 Henry Jerome Rulfo, PM, 165 *Loomis St.*, Barre.
 Harold John Rush, PM, 153 *Summit St.*, Newport.
 Richard Salmon, SED, *Sigma Alpha Epsilon House*, Stanhope, N. J.
 Carrye H. Samuelson, CT, 63 *Hyde St.*, Burlington.
 Jean Betty Saul, SS, *Redstone*, Fitchburg, Mass.
 Helen Teresa Sault, LS, 565 *Main St.*, Randolph.
 Doris Shirley Schlaf, SS, *Alpha Xi Delta House*, Rockville, Conn.
 Albert Joseph Senuta, Bus, 403 *College St.*, Fitchburg, Mass.
 Beatrice Irene Shine, GS, 159 *Loomis St.*, Wardsboro.
 Max Michael Shuman, PM, 121 *Loomis St.*, Fitchburg, Mass.
 James Edwin Simpson, PM, *Kappa Sigma House*, St. Albans.
 Melvin Herbert Small, PM, 153 *Summit St.*, Burlington.
 Dorothea Smith, SS, 129 *Spruce St.*, Burlington.
 Robert Norman Snider, Bus, 92 *Brookes Ave.*, Boston, Mass.
 Carole Esther Stetson, Sec, *Shelburne Rd.*, Burlington.
 Jean MacMillan Stewart, SS, *Allen House*, Rawalpindi, India.
 Norman Kenneth Strassburg, SED, *Delta Psi House*, N. Tonawanda, N. Y.
 Jessie Swann, Cl, *Redstone*, Danvers, Mass.
 Charles Caverly Swift, PM, 93 *S. Willard St.*, Rutland.
 Francis Marshal Taylor, SED, *Sigma Alpha Epsilon House*, Brattleboro.
 Donald William Thayer, SS, 38 *Bay View St.*, Burlington.
 Mary Jeanette Thompson, CT, 35 *Lafayette Pl.*, Burlington.
 Norman Williams Thompson, SS, *Sigma Phi Place*, Bellows Falls.
 Edith Louise Topkins LS, *Grassmount*, Brookline, N. Y.
 Caroline Trask, CT, *Prospect House*, Rochester.
 Franklyn Haven Utley, GS, *Sigma Alpha Epsilon House*, W. Hartford, Conn.
 Charles Wilbar Utter, Bus, *Sigma Phi Place*, Westerly, R. I.
 Geraldine Mae Wilcox, Sec, 159 *Loomis St.*, Newport.
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 Ruth Paula Winton, SED, 50 *Robinson Pkwy.*, Flushing, N. Y.
 Thelma Lois Wolinsky, CT, 49 *Henderson Ter.*, W. Rutland.
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 William Harold Wright, PM, *Alpha Tau Omega House*, Middletown, Conn.
 Beatrice Zeichick, Sec, *Grassmount*, Chelsea, Mass.

SOPHOMORES—Class of 1942

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 Norman Bruce Altenberg, SED, 75 *Loomis St.*, Belle Harbor, N. Y.
 Virginia Elizabeth Amidon, SS, *Campus House*, Worcester, Mass.
 Edmond Ernest Anair, SS, 106 *Colchester Ave.*, Waterbury.

- Geraldine Pearle Annis, *Cl*, *Allen House*, Barton.
 Lillian Elsie Aronson, *Sec*, *Robinson Hall*, Proctor.
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 Priscilla Gifford Brayton, *SS*, *145 Robinson Pkwy.*, Fall River, Mass.
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 Lester Putnam Brown, Jr., *Bus*, *Sigma Nu Lodge*, Pittsfield, Mass.
 John Stuart Burgess, *SS*, *240 N. Prospect St.*, Burlington.
 Everett James Burlando, *SS*, *128 Colchester Ave.*, Dorchester, Mass.
 Barbara Butterfield, *SS*, *83 N. Willard St.*, Manchester.
 Isabelle Margaret Carter, *GS*, *Gates House*, St. Johnsburry.
 Elizabeth Ball Chaffee, *LS*, *Allen House*, Enosburg Falls.
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 Sumner Harold Cohen, *GS*, *Phi Sigma Delta House*, Manchester Depot.
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 Clark Edward Corliss, *GS*, *Delta Psi House*, St. Albans.
 George Demosthenes Corsones, *SEd*, *165 Main St.*, Rutland.
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 William Allen Daniels, *Bus*, *Phi Delta Theta House*, Bridgeport, Conn.
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 Lydia Louise Del Giudice, *PM*, *92 Hungerford Ter.*, Waterbury.
 Catherine-Jean Dewart, *Cl*, *Warner House*, St. Albans.
 Mary Randall De Yoe, *LS*, *145 Robinson Pkwy.*, Paterson, N. J.
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 Jerolemon Carmaine Ditore, *SS*, *128 Colchester Ave.*, Brooklyn, N. Y.
 Marguerite Julia Doheny, *Sec*, *Richmond*, Richmond.
 Norman Evans Dubie, *GS*, *206 Bank St.*, Graniteville.

- Harriet Pearson Dustan, PM, *Allen House*, Craftsbury Common.
Flora Elizabeth Fifield, Cl, *Allen House*, Randolph.
Miriam Louise Fiske, Cl, *Williston Rd.*, Burlington.
Edward Anthony Flynn, Jr., PM, *Phi Delta Theta House*, Belleville, N. Y.
Robert Goodwin Foster, Bus, *Phi Delta Theta House*, Cleveland, Ohio.
Samuel Joseph Foti, PM, *Sigma Nu Lodge*, Rutland.
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Jean French Hall, SS, *Charlotte*, Charlotte.
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Marie Delores Harte, SS, *Grassmount*, Bennington.
Robert William Harvey, Ch, 38 *Bradley St.*, Island Pond.
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Phyllis Jean Lake, SS, *Allen House*, Saxtons River.
James Rice Lawler, Bus, *Sigma Nu Lodge*, Reading, Mass.
Samuel Levine, PM, 15 *Adsit Ct.*, W. Rutland.
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Frederick Pomeroy Logan, GS, *Phi Delta Theta House*, Springfield, Mass.
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Harry Cyril McNamara, PM, *N. Converse Hall*, Valatie, N. Y.
Dorothy Ruth Manion, GS, 62 *Harrington Ter.*, Bridgeport, Conn.

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 Ruth Arms Miller, *Sec*, *Robinson Hall*, Putney.
 George Wilmot Moody, *SS*, 129 *N. Prospect St.*, Waterbury Center
 William Joseph Murphy, *PM*, *Phi Delta Theta House*, Beverly, Mass.
 William Wolfe Musicant, *PM*, 234 *Loomis St.*, Burlington.
 Harriet Sofia Nelson, *Bus*, 145 *Robinson Pkwy.*, Proctor.
 William John Newcomb, *Bus*, 23 *Isham St.*, Burlington.
 Sylvia Noble, *Bus*, *Robinson Hall*, Windsor.
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 Catherine Marie Peterson, *LS*, *Robinson Hall*, Amherst, Mass.
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 Paul Peter Pullinen, *SEd*, 15 *University Ter.*, Ludlow.
 Max Lawrence Resnick, *PM*, *Phi Sigma Delta House*, Mattapan, Mass.
 Myers Jay Reynolds, III, *SS*, *Sigma Phi Place*, Malone, N. Y.
 Harold Edward Rice, *Bus*, *Kappa Sigma House*, North Haven, Conn.
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 William Alexander Roeder, *Cl*, *Sigma Alpha Epsilon House*, Queens Village, N. Y.
 Sara Elizabeth Rome, *SS*, *Robinson Hall*, Dobbs Ferry, N. Y.
 Gilman Belcher Rood, *LS*, *Delta Psi House*, St. Albans.
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 Marion Etta Roy, *Sec*, *Redstone*, Malden, Mass.
 Louis Michael Rozek, *PM*, *N. Converse Hall*, Berlin, N. H.
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 James David Sawyer, *PM*, *Sigma Nu Lodge*, St. Albans.
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 Harry Reid Seivwright, *Bus*, *Kappa Sigma House*, Montpelier.
 Albert Leslie Shaw, *Bus*, *Sigma Alpha Epsilon House*, Arlington, N. J.
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 Charles Ambrose Shortle, Jr., *Bus*, 128 *Colchester Ave.*, Milton, Mass.
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Stanton Sirkin, PM, *S. Converse Hall*, New Britain, Conn.
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Waino Wiljo Suojanen, Bus, 348 *College St.*, Ludlow
June Nathalie Swanson, Sec, *Robinson Hall*, Schenectady, N. Y.
Abraham Swartz, PM, 44 *Booth St.*, Boston, Mass.
William Pomeroy Swift, Bus, 82 *Henry St.*, Barnstable, Mass.
William Winston Talbert, Ch, 348 *College St.*, Waterbury.
Robert Dwight Thayer, Sec, 38 *Lafayette Pl.*, Burlington.
William Burke Tooles, PM, 67 *Church St.*, Burlington.
Elmer Leonard Trefren, GS, 67 N. *Willard St.*, Lyndonville.
Norman Douglas Tucker, SS, *Sigma Phi Place*, Fitchburg, Mass.
Robert Donald Wakefield, PM, 262 *North Ave.*, Burlington.
Margaret Ward, CT, *Gates House*, St. Johnsbury.
Alexander Lee Warden, PM, *Alpha Tau Omega House*, W. Barnet.
Walter Eugene Weisman, SS, *Fort Ethan Allen*, Fort Ethan Allen.
Dean Herbert Wheeler, PM, 20 *Booth St.*, Montpelier.
John Joseph White, Bus, 206 *Bank St.*, Needham, Mass.
Joseph Allen White, Jr., SS, *Lambda Iota House*, Essex Fells, N. J.
Rupert Elmer White, GS, 120 N. *Willard St.*, Starksboro.
Norma Elizabeth Wilbur, Sec, 19 *Fletcher Pl.*, Glover.
Roxana Dorothy Wilmoth, GS, 139 N. *Willard St.*, Ludlow.
Sarah Adelaide Wilson, SS, *Gates House*, Gray, Me.
Helen Marie Witham, Sec, 41 S. *Prospect St.*, Burlington.
Robert Wolfe, SS, 73 *Hyde St.*, Burlington.
Patricia Earle Wood, Sec, *Gates House*, Poughkeepsie, N. Y.
Addie Joyce Woodruff, Sec, *Underhill*, Jericho.
Mary Jeanne Woolley, SS, *Slade Hall*, Glen Cove, L. I., N. Y.
Jane Margaret Wray, Sec, 324 *Main St.*, Burlington.
Jean Gertrude Young, SS, *Gates House*, Elmhurst, L. I., N. Y.
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FRESHMEN—Class of 1943

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Leigh Gates Abbott, PM, *S. Converse Hall*, Wellesley Farms, Mass.
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Enes Antonia Alfano, PM, 83 N. *Willard St.*, Brooklyn, N. Y.
Joseph Alpert, PM, 98 N. *Prospect St.*, Newton, Mass.
Alfred Franklin Amee, SEd, 139 N. *Prospect St.*, Randolph.
George Wallace Andrews, SS, *Sigma Nu Lodge*, Lawrence, Mass.
Elisabeth Mitchell Bacon, SS, 159 *Loomis St.*, North Haven, Conn.
Clarence Edward Barber, Bus, 60 N. *Prospect St.*, Brattleboro.
Frederick William Barrett, Jr., PM, *Shelburne*, Shelburne.

- John Aloysius Barrett, *SEd*, 51 *Brookes Ave.*, Highland Falls, N. Y.
 Seymour James Baum, *LS*, *Phi Sigma Delta House*, Bridgeport, Conn.
 June Inez Bean, *Sp* (GS), 48 *Colchester Ave.*, Milton.
 Martha Lillian Beatty, *Sec*, 54 *Buell St.*, Burlington.
 Fred Amos Beecher, *Bus*, 16 *Mansfield Ave.*, Mt. Kisco, N. Y.
 Helen Crawford Beers, *SS*, 159 *Loomis St.*, Ticonderoga, N. Y.
 Virginia Ann Bell, *SS*, 247 *S. Prospect St.*, Burlington.
 Madelynne Joyce Benn, *LS*, *Gates House*, Auburn, N. Y.
 John Frederick Bennetts, *PM*, *M. Converse Hall*, Yonkers, N. Y.
 Marguerite Constance Benoit, *SS*, *Robinson Hall*, Leominster, Mass.
 Wilfred Joseph Benoit, *Bus*, 37 *N. Prospect St.*, New London, Conn.
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 Patricia Lucienne Bisson, *PM*, 433 *Main St.*, Barre.
 Warner John Black, *SS*, 15 *Converse Ct.*, Burlington.
 Edwin Harmond Blakely, *Bus*, 48 *Colchester Ave.*, Burlington.
 Robert Asa Bloomer, *PM*, *S. Converse Hall*, W. Rutland.
 Jean Helen Blume, *GS*, *Robinson Hall*, Ansonia, Conn.
 Robert Gordon Bogart, *GS*, 60 *N. Prospect St.*, Mt. Vernon, N. Y.
 Wesson Dudley Bolton, *Sp*, *N. Converse Hall*, Cabot.
 Caroline Joyce Bone, *PM*, *Slade Hall*, Gardner, Mass.
 Milton Borofsky, *Bus*, *M. Converse Hall*, Keene, N. H.
 Jerry Brill, *SS*, *Phi Sigma Delta House*, Brooklyn, N. Y.
 Francis Harry Brousseau, *PM*, *N. Converse Hall*, Middlebury.
 Barbara Marie Browne, *GS*, 53 *Brookes Ave.*, Burlington.
 Henry Nelson Browne, *GS*, 53 *Brookes Ave.*, Burlington.
 Leonard Brum, *PM*, *N. Converse Hall*, Cedarhurst, L. I., N. Y.
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 Fred Cullen Bundy, *PM*, *S. Converse Hall*, Southington, Conn.
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 Barbara Elaine Burns, *Bus*, *Sanders Hall*, Rutland.
 Barbara Merrill Burns, *GS*, *Gates House*, Montpelier.
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 Mary Phyllis Butler, *Cl*, *Robinson Hall*, Taunton, Mass.
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 Marian Margaret Byrnes, *Sec*, 107 *Loomis St.*, Burlington.
 Ralph Michael Caccavo, *PM*, 98 *Brookes Ave.*, Northfield.
 Robert Nolan Cain, *PM*, 61 *Mansfield Ave.*, Burlington.
 David Main Campbell, *PM*, *S. Converse Hall*, Hartford, Conn.
 Martin John Cannon, *PM*, 16 *Brookes Ave.*, Rutland.
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 Michael Alphonse Cozzolino, *PM, M. Converse Hall*, Hamden, Conn.
 Robert McBurney Curtis, *Ch, S. Converse Hall*, Newton, Mass.
 Cornelia Almira Cushing, *SEd, Prospect House*, Hartford.
 Morton Learned Cushing, *SS, 42 N. Willard St.*, St. Albans.
 Monroe Albert Cycleman, *PM, N. Converse Hall*, Cedarhurst, L. I., N. Y.
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 Elizabeth Lewis Deming, *SS, Campus House*, New Haven, Conn.
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 James Warren Dykens, *PM, S. Converse Hall*, Worcester, Mass.
 Marion Agatha Ebare, *CT, 252 Colchester Ave.*, Fairfax.
 Winston Milo Eddy, *PM, 231 Maple St.*, Burlington.
 Philip Donald Eisenwinter, *Sec, Sigma Phi Place*, Swampscott, Mass.
 Joan Emma Eldredge, *Sec, Redstone*, Waterbury.
 Wilber Merritt Emerson, Jr., *PM, N. Converse Hall*, Bangor, Me.
 Rufus O. Estey, Jr., *Ch, 139 N. Prospect St.*, Springfield.
 Henrietta Ita Facticeau, *Sec, Warner House*, Tupper Lake, N. Y.
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 Patricia Jean Fellows, *SEd, Slade Hall*, Springfield.
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 Earl Owen Fisk, *Ch, 62 S. Union St.*, Barton.
 James John Fleming, *LS, M. Converse Hall*, W. Springfield, Mass.
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 Jeanne Adelle Forssell, *SS, Slade Hall*, Queens Village, L. I., N. Y.
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 Terence Frederick Gage, *PM, 139 N. Prospect St.*, Vergennes.
 Robert Homer Galipeau, *SEd, 80 Colchester Ave.*, Troy.
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 Mary Elizabeth Germain, *GS, Slade Hall*, Glens Falls, N. Y.
 Sarah Elizabeth Gibson, *GS, Gates House*, Sharon.
 Alfred Grover Gilbert, Jr., *Bus, 20 Booth St.*, S. Acton, Mass.
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- Bernard Lewis Glass, SS, 21 Loomis St., Burlington.
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Sophie Gorney, SS, *Prospect House*, Attleboro, Mass.
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Samuel Maurice Grossman, SS, *Phi Sigma Delta House*, New York, N. Y.
Richard Pollard Grosvenor, GS, N. Converse Hall, Winchester, Mass.
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Janet Agnes Hackwell, SS Slade Hall, Montpelier.
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Irwin Lee Harris, PM, *Phi Sigma Delta House*, Winsted, Conn.
Mary Louise Hart, SS, *Warner House*, E. Patchogue, L. I., N. Y.
Wendell Neil Harvey, PM, 26 Greene St., Burlington.
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Arlington Oscar Hazen, PM, 209 Colchester Ave., North Hero.
Daniel Joseph Healy, Jr., SS, *Kappa Sigma House*, Rutland.
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Marie Corinne Hollowell, LS, *Campus House*, Cranford, N. J.
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Harry Elwin Howe, GS, S. Converse Hall, Tunbridge.
William Warren Humphrey, Jr., Bus, N. Converse Hall, Albany, N. Y.
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Edgar James Jackson, PM, 43 N. Willard St., Waterbury, Conn.
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Wilford George Johnson, Jr., GS, 128 Colchester Ave., Bridgeport, Conn.
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Llewellyn Martin Jones, GS, 106 Colchester Ave., Swanton.
Nan Marion Jones, Sec, 261 Shelburne St., Burlington.
Clifford Joseph, PM, 88 N. Willard St., New York, N. Y.
Jeremiah Peter Joseph, PM, 186 Pine St., Burlington.
Richard Benton Kahle, Jr., PM, N. Converse Hall, Houston, Texas.
Martin Herman Karelitz, Bus, M. Converse Hall, Haverhill, Mass.
Milton Reuben Kaufman, PM, N. Converse Hall, Mountindale, N. Y.
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Mary Elizabeth Kelley, SEd, 59 N. Willard St., Bennington.
Betty Lucille Kennedy, LS, 17 Henry St., Waterbury.
Ralph Morton Kilburn, Bus, 43 N. Willard St., Collinsville, Conn.
Cecil Harry Kimball, PM, 5 Pine Pl., Burlington.
Albert Clark Kinney, Jr., PM, 163 Loomis St., Hardwick.

Louis Klein, PM, 22 *Wilson St.*, Bridgeport, Conn.
Walter Joseph Koladza, *Bus*, 69 *Brookes Ave.*, W. Haven, Conn.
Elisabeth Anne Kulka, SS, 85 *Mansfield Ave.*, New York, N. Y.
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Hortense Elizabeth Leduc, *SEd*, 29 *Mansfield Ave.*, Newport.
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John Francis McArdle, SS, 206 *Bank St.*, Millbury, Mass.
John Frederic McCabe, PM, 22 *Converse Ct.*, Burlington.
Robert Joseph McDonald, PM, *S. Converse Hall*, Rutland.
Anne Armstrong McFee, SS, *Warner House*, Haverhill, Mass.
John Frances McGarry, PM, *M. Converse Hall*, Proctor.
Kathleen Ann McGauley, LS, 83 *N. Willard St.*, Schenectady, N. Y.
Patricia Margaret McGuire, *Cl*, *Sanders Hall*, Utica, N. Y.
Mary Quackenbush McKee, *SEd*, *Redstone*, Peterborough, N. H.
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Walter Harding Maurer, *Cl*, 146 *Colchester Ave.*, St. Albans, N. Y.
Lawrence Irving Miller, SS, 20 *Henderson Ter.*, New York, N. Y.
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Thomas Lawrence Moran, PM, *N. Converse Hall*, Bristol, Conn.
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William Charles Neal, *Bus*, *N. Converse*, Larchmont, N. Y.
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Warren Byrne Nestler, PM, *S. Converse Hall*, New Rochelle, N. Y.
Ruth Elizabeth Nido, *SEd*, 83 *N. Willard St.*, Wilmington.
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John Savage Noble, *Bus*, *M. Converse Hall*, Orange, Conn.
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Gilbert Burton Oakes, *Ch*, *Sigma Phi Place*, Wakefield, Mass.
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- Wallace Frank Penrose, *Bus*, 143 *Locust St.*, Burlington.
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 Dana Andren Peterson, *Bus*, *M. Converse Hall*, Methuen, Mass.
 Boris Mishel Piastro, *GS*, *N. Converse Hall*, New York, N. Y.
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 Phyllis Mae Pierce, *GS*, *Slade Hall*, Swanton.
 William Augustus Pierce, *LS*, 47 *N. Prospect St.*, Lyndonville.
 Stevenson Brown Porter, *LS*, 28 *Kingsland Ter.*, Providence, R. I.
 Frederic Warner Potter, *SS*, 128 *Colchester Ave.*, St. Albans.
 Elizabeth Mary Pratt, *SEd*, 98 *Loomis St.*, N. Clarendon.
 Shirley Elizabeth Freedom, *Sec*, 419 *Shelburne St.*, Pittsford.
 Charles Franklin Preston, Jr., *PM*, 42 *N. Willard St.*, St. Albans.
 Salmon Wilder Putnam, IV, *Bus*, *M. Converse Hall*, Fitchburg, Mass.
 Arthur George Quintiliani, *PM*, 235 *Loomis St.*, New London, Conn.
 Janet Marie Ray, *PM*, *Grassmount*, Leominster, Mass.
 Barbara Dean Redman, *SS*, *Sanders Hall*, New York, N. Y.
 Robert Benjamin Resnick, *PM*, 75 *Loomis St.*, Winchendon, Mass.
 Mary Sarah Rice, *Bus*, *Essex Junction*, Essex Junction.
 Judson Cromwell Richardson, Jr., *PM*, 51 *Brookes Ave.*, Leominster, Mass.
 John Elmore Riggs, *PM*, *Sigma Alpha Epsilon House*, Netcong, N. J.
 John William Riley, *Bus*, 535 *St. Paul St.*, Burlington.
 Herbert Sumner Robinson, *Bus*, 74 *Henry St.*, Brockton, Mass.
 Jay Milton Rome, *SS*, 25 *Wilson St.*, Fitchburg, Mass.
 Jean Russell, *Sp*, *Campus House*, W. Hartford, Conn.
 Ernest Francis St. Mary, Jr., *Ch*, 24 *University Ter.*, Springfield.
 George Frank Sammis, Jr., *Sp*, *S. Converse Hall*, Hollis, N. Y.
 Thomas Peter Sanders, *SEd*, 42 *East Ave.*, Whiting, Ind.
 Phyllis Savage, *LS*, 361 *S. Union St.*, Burlington.
 Laura Rosemary Schaefer, *SS*, 83 *N. Willard St.*, Binghamton, N. Y.
 Thelma Geraldine Schoeneman, *GS*, 78 *Adams St.*, Burlington.
 Catharine Graves Shaw, *GS*, 50 *Robinson Pkwy.*, Manchester Center.
 Frederick Allen Shaw, *SS*, *Kappa Sigma House*, S. Yarmouth, Mass.
 William Bernard Shea, Jr., *PM*, 43 *N. Willard St.*, Bennington.
 Howland Wilson Smith, *PM*, 384 *S. Union St.*, Burlington.
 Stewart Allen Smith, *SS*, 129 *N. Prospect St.*, White River Junction.
 Robert William Soule, *Ch*, 457 *S. Union St.*, Burlington.
 Marcia Deana Spound, *SS*, *Robinson Hall*, Fitchburg, Mass.
 Dorothy Geraldine Stoddard, *SEd*, 14 *University Ter.*, Morrisville.
 George Clarence Strong, Jr., *SS*, ———, Jamaica Plain, Mass.
 Julia Blanche Strong, *LS*, 24 *Nash Pl.*, Milton.
 Randall Ellsworth Sullivan, *SEd*, 63 *Harrington Ter.*, Burlington.
 Mary Ella Sumner, *GS*, 32 *University Ter.*, Ludlow.
 Paul Vernon Sundberg, Jr., *PM*, *S. Converse Hall*, Windsor.
 Paul Nelson Sutton, *Bus*, 14 *Adsit Ct.*, Burlington.
 Frank Robinson Swift, Jr., *Ch*, *N. Converse Hall*, Buffalo, N. Y.
 Oliver Franklin Swift, *GS*, 415 *S. Willard St.*, Burlington.
 Jane Elizabeth Thresher, *LS*, *Slade Hall*, Moorestown, N. J.
 Harris Elliot Thurber, *SS*, *Y. M. C. A.*, Floral Park, N. Y.
 John Howard Tooles, *Bus*, 67 *Church St.*, Burlington.
 William Albert Towne, *SS*, 51 *Brookes Ave.*, Charlestown, N. H.
 David Chase Tuholski, *PM*, 128 *Colchester Ave.*, Brockton, Mass.

Harry Gillespie Twitchell, *GS*, 3 *Handy Ct.*, Burlington.
 Virginia Stuart Van Valkenburg, *Sec*, *Warner House*, Schenectady. N. Y.
 Maurice Roger Viens, *PM*, *Milton*, Milton.
 Gladys Eleanor Walston, *LS*, *Underhill*, Watertown, Mass.
 John Glendinning Wanvig, *Bus*, 295 *S. Prospect St.*, New York, N. Y.
 Mignon Gladys Warner, *Sec*, *Campus House*, Fitchburg, Mass.
 Arthur Bradley Warren, *GS*, 165 *Loomis St.*, Hardwick.
 LeLon Ashley Weaver, Jr., *SS*, 21 *S. Union St.*, Starksboro.
 Donald Lewis Wedge, *Bus*, 89 *Buell St.*, Binghamton, N. Y.
 Laurence Herbert Wein, *SS*, *Tau Epsilon Phi House*, Newton, Mass.
 Russell Carlisle West, *Bus*, 348 *College St.*, Bridgewater.
 William Alvin West, *Ch*, *Essex Junction*, Essex Junction.
 Mary Varney White, *GS*, *Grassmount*, Utica, N. Y.
 John Wheeler Williams, *Ch*, *S. Converse Hall*, Northampton, Mass.
 Richard Bruce Wilmott, *Sec*, 42 *Converse Ct.*, Northfield.
 Harry Jones Winchell, Jr., *SEd*, 243 *Colchester Ave.*, S. Royalton.
 Richard Bernard Winslow, *PM*, 235 *Loomis St.*, Whitman, Mass.
 Marjorie Joan Witham, *Sec*, 41 *S. Prospect St.*, Burlington.
 William Howard Wood, Jr., *SEd*, *Winooski*, Winooski.
 Lawrence Tilden Wright, *GS*, 64 *Henry St.*, St. Albans.
 Sigismund Simon Wysolmerski, *PM*, *Alpha Tau Omega House*, W. Rutland.
 Temaly Yett, *Sec*, 94 *Hyde St.*, Burlington.
 Samuel Ziskind, *Cl*, 74 *Henry St.*, Brockton, Mass.
 Daan Marsh Zwick, *Ch*, 74 *Adams St.*, Burlington.
 Huddee Zwick, *SS*, 74 *Adams St.*, Burlington.

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Harold Frank Burroughs, *Sp*, 407 *College St.*, Burlington.
 Paul Stanislas Contois, *Sp*, 26 *Hayward St.*, Burlington.
 Ruth Ann Crowley, *Sp*, 7 *S. Champlain St.*, Burlington.
 Laurence Patrick Daley, *PH.B.*, *Sp*, 272 *S. Winooski Ave.*, Burlington.
 Mary Lucile Davis, *Sp*, 19 *Fletcher Pl.*, Burlington.
 Wendell Earl Fitts, *Sp*, 6 *Adams St.*, Windsor.
 Joseph Dolphis Giroux, *Sp*, 52 *Lakeview Ter.*, Burlington.
 John Thomas Hart, *B.S.*, *Sp*, 228 *Maple St.*, Burlington.
 Carleton Leslie Holmes, *Sp* (*SEd*), 55 *Loomis St.*, Bristol.
 Wiljyon Medlock Kennan (Mrs.), *A.M.*, *M.S.*, *Sp*, 67 *Brookes Ave.*, Burlington.
 Janet Marie Leatherman, *Sp*, 173 *Loomis St.*, Burlington.
 Liliane Constance LaVigne, *B.MUS.*, *Sp*, *Winooski*, Winooski.
 William Darcy Miningham, Jr., *Sp* (*PM*), 21 *Lafayette Pl.*, Newark, N. J.
 Archibald Thomson Post, *B.S.*, *Sp*, 71 *Williams St.*, Burlington.
 Gilbert Weller Rist, *PH.B.*, *Sp* (*PM*), 362 *S. Union St.*, Burlington.
 Jean Lincoln Robinson, *Sp*, 415 *Colchester Ave.*, Burlington.
 Ethel Harriet Pearl Schildhaus (Mrs.), *B.E.*, *Sp*, *Shelburne*, Shelburne.
 Helen Marian Way, *A.B.*, *Sp*, 216 *S. Prospect St.*, Burlington.
 Julius Walter Whitney, *Sp* (*PM*), 49 *N. Prospect St.*, Salisbury.
 Philip Augustus Wisell, *Sp*, 152 *Pine St.*, Middlebury.

THE COLLEGE OF ENGINEERING

SENIORS—*Class of 1940*

Walter Joseph Augustenovich, *ME* (*Sp*), *Sigma Alpha Epsilon House*, Springfield.
Everett Clark Bailey, *EE*, *Delta Psi House*, Burlington.
Robert Arthur Dudley, *CE*, 41 *University Ter.*, Bradford.
Elliott Franklin Hawkins, *ME*, *Williston*, Williston.
Fred Stanley Heath, *ME*, 23 *Brookes Ave.*, Barton.
Merriman Dunton Hull, *EE*, 19 *Weston St.*, Franklin.
David Emanuel Johnson, Jr., *CE*, 210 *King St.*, Burlington.
Forrest Arthur Johnson, *ME*, 90 *Hungerford St.*, Thetford Center.
Maurice Leonard Newton, *ME*, 90 *Hungerford St.*, Burlington.
Alexander Pesarik, *ME*, 41 *University Ter.*, Windsor.
Elbert James Roberts, *ME*, *Alpha Tau Omega House*, Jacksonville.
Richard Walker Robinson, *CE*, *Sigma Nu Lodge*, Wilkinsburg, Pa.
Gordon Lord Smith, *ME*, *Sigma Nu Lodge*, S. Ryegate.
Robert Benjamin Smith, *EE*, *Essex Junction*, Essex Junction.
Richard Morgan Story, Jr., *ME*, *Sigma Phi Place*, Yonkers, N. Y.
Harold Raymond Westover, *CE*, 40 *University Ter.*, Burlington.
Powell Joseph Whalen, *CE*, 394 *Pearl St.*, Burlington.
Justus Baldwin Wheeler, *CE*, *Sigma Nu Lodge*, Morrisville.
Louis Basil Zambon, *ME*, 23 *Brookes Ave.*, S. Ryegate.

JUNIORS—*Class of 1941*

Harold Goodnar Carlson, *EE*, *Delta Psi House*, Brattleboro.
Herbert Adolphus Chesney, *EE*, *S. Converse Hall*, Island Pond.
Harry Bunal Coburn, *EE*, *Delta Psi House*, E. Montpelier.
James Francis Patrick Corbett, *ME*, 206 *Bank St.*, N. Tonawanda, N. Y.
John Henry Couture, *EE*, 28 *Hungerford St.*, Burlington.
Edward Stone Cram, *ME*, 87 *Shelburne Rd.*, Burlington.
Edward Merrill Creed, *ME*, 37 *N. Prospect St.*, Rutland.
John Francis Cronin, *ME*, *Phi Delta Theta House*, Bennington.
Harold Hedley Crossley, *EE*, 206 *Bank St.*, Gardner, Mass.
Carlo Peter Domenichini, *EE*, 80 *Colchester Ave.*, Readsboro.
George Bernard Dunn, Jr., *EE*, 26 *Fletcher Pl.*, Craftsbury Common.
Glenn Downing Easton, *ME*, 60 *Colchester Ave.*, Shoreham.
Roswell Farnham, Jr., *ME*, *Sigma Phi Place*, Buffalo, N. Y.
John Smalley Greene, *CE*, 19 *School St.*, Burlington.
Bernard William Hill, *ME*, *Sigma Nu Lodge*, Bennington.
William Proctor Koch, *CE*, 11 *Hungerford St.*, S. Orange, N. J.
John Leo Kotuby, *ME*, 83 *N. Union St.*, Rutland.
Maynard John Lawrence, *EE*, *Sigma Nu Lodge*, Akron, N. Y.
Donald Argyle Morrison, *EE*, *Queen City Park*, S. Burlington.
Gerald Imlah Palmer, *CE*, 26 *Fletcher Pl.*, Williamstown.
William Lisle Potter, *ME*, *Phi Delta Theta House*, Bridgeport, Conn.
Frank Richard Proctor, *EE*, 15 *University Ter.*, Ludlow.
Roger Gibbs Ramsdell, Jr., *ME*, *Phi Delta Theta House*, Rockville Center, L. I., N. Y.
James Albert Root, *CE*, 282 *Colchester Ave.*, Middlebury.

Azel James Taggart, *CE, Lambda Iota House*, Castleton.
 Peter Waterman, *EE, 15 University Ter.*, Hartford, Conn.
 Robert Lyons Williams, *EE, 34 Elmwood Ave.*, Burlington.
 Harold Strong Willson, *CE, 128 Colchester Ave.*, Bethel.
 William Elwin Young, *ME, 24½ Brookes Ave.*, Barre.

SOPHOMORES—Class of 1942

Franklin Wharton Baker, Jr., *CE, Sigma Alpha Epsilon House*, Merchantville, N. J.
 Ralph William Beck, *CE, 241 Loomis St.*, Royalton.
 Maurice Beliveau, *ME, 53 Harrison Ave.*, Vergennes.
 Leonard Stanley Berman, *EE, 75 Loomis St.*, Brookline, Mass.
 John Ralph Burnett, *EE, 23 Pine Pl.*, Burlington.
 Orlando Richard Clark, *CE, 38 Latham Ct.*, E. Montpelier.
 Challiss Irvin Clausing, *EE, Essex Center*, Essex Center.
 Donald Gordon Dunn, *CE, 83 Brookes Ave.*, Burlington.
 Kenneth Martin Grout, *ME, Delta Psi House*, Greenwood, Mass.
 Katharine Clement Holden, *CE, 433 S. Union St.*, Burlington.
 Harvey Hart Hubbard, *EE, 163 Loomis St.*, St. Albans.
 Matthew Raymond Kallman, *ME, 37 N. Prospect St.*, Woodmere, L. I., N. Y.
 Edmond John Kodys, *CE, Kappa Sigma House*, Gardner, Mass.
 Mitchell Franz Lambert, *EE, 38 Latham Ct.*, Barre.
 Malcolm Frederic Lavelle, *EE (Sp.)*, 276 North St., Burlington.
 Frank Eugene McPherson, *EE, N. Converse Hall*, Roslindale, Mass.
 Robert Arthur Magnant, *EE, 519 North St.*, Franklin.
 Allen Chandler Moore, *ME, 316 Main St.*, Burlington.
 Donald Lincoln Moran, *EE, 243 Colchester Ave.*, Jericho.
 Sydney Smith Morgan, *EE, 22 Perrotta Pl.*, Burlington.
 Richard Tabor Otis, *EE, 376 S. Winooski Ave.*, Burlington.
 Rollin James Parker, *EE, Essex Junction*, Essex Junction.
 Robert Douglas Paterson, *CE, Delta Psi House*, Barre.
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 Donald Homer Prior, *EE, 38 Converse Ct.*, Burlington.
 Merle Congdon Reynolds, Jr., *ME, Kappa Sigma House*, W. Dennis, Mass.
 Euclid Nelson Rock, *ME, Kappa Sigma House*, S. Barre.
 Donald Milburn Sheldon, *ME, M. Converse Hall*, W. Springfield, Mass.
 Roderick Lee Smith, *EE, 519 North St.*, Richford.
 James Humphrey Stephen, *CE, Sigma Phi Place*, Copper Cliff, Ontario, Canada.
 George Hazen Stickney, *EE, 278 Colchester Ave.*, E. Thetford.
 Sigmunt Joseph Sysko, *EE, 116 N. Winooski Ave.*, Bellows Falls.
 Harry Abel Way, II, *ME, Kappa Sigma House*, Burlington.

FRESHMEN—Class of 1943

Brooke Albert, *ME, 27 Isbam St.*, Burlington.
 Ronald Rossi Bielli, *EE, 11 Hickok Pl.*, Barre.
 Arthur Eaton Briggs, *ME, 51½ N. Willard St.*, Burlington.
 John Lake Buttles, *ME, 457 S. Willard St.*, Burlington.
 William Tyler Chapin, *EE, Essex Junction*, Essex Junction.
 Maurice Chartoff, *ME, 88 N. Willard St.*, Bennington.
 Philip James Chesarone, *CE, 206 Bank St.*, Waban, Mass.

- Joseph Edward Corbett, *ME*, 206 Bank St., N. Tonawanda, N. Y.
 Lloyd John Cyr, *ME*, 519 North St., Franklin.
 George Forrest Daly, Jr., *ME*, 106 Colchester Ave., Hyde Park.
 Arthur Brookins Delano, Jr., *CE*, 60 Colchester Ave., Shoreham.
 Paul Allen Dicke, *ME*, *Sigma Phi* Place, Upper Montclair, N. J.
 James Kelman Duncan, *ME*, 155 Loomis St., Montpelier.
 Robert William Earley, *EE*, 86 N. Union St., Burlington.
 Willard Ernest Fish, *EE*, *Richmond*, Richmond.
 Howard Loeb Frohman, *CE*, 108 Loomis St., New Haven, Conn.
 Robert William Gillette, *EE*, 43 N. Willard St., Forestville, Conn.
 Edward Bernard Godfrey, *ME*, *Phi Delta Theta House*, Beverly, Mass.
 Ralph Russell Goss, *ME*, 131 Lakeview Ter., Burlington.
 Roy Gordon Hamilton, Jr., *ME*, 37 N. Prospect St., Williamstown.
 John Prescott Hoyt, Jr., *ME*, S. Converse Hall, Milton.
 Alfred Jennings, *ME*, 60 N. Prospect St., Bradford.
 Morris Wellesley Kenfield, *ME*, 20 Spruce St., Whitefield, N. H.
 Webster Oscar Krupp, *ME*, 190 North Ave., Burlington.
 Richard Franklin Ladd, *CE*, *Shelburne*, Derby.
 John Franklin Lamson, *ME*, *Shelburne*, Shelburne.
 John Raymond Landry, Jr., *ME*, 37 N. Prospect St., Rutland.
 Willard James Lankton, *ME*, 98 Brookes Ave., Rochester, N. Y.
 Samuel George Levin, *ME*, 10 Hungerford St., Burlington.
 Richard Herbert Lincoln, *CE*, 69 N. Willard St., Winchendon, Mass.
 Thomas Alwin McCormick, *ME*, 155 Loomis St., Burlington.
 Robert Louis Marcalus, *ME*, *Lambda Iota House*, Elizabeth, N. J.
 Russell Marshall, *EE*, 37 Russell St., Bennington.
 Ross Buchanan Newton, *ME*, 106 Colchester Ave., Hyde Park.
 Bernard Farrell Nolin, *CE*, *Underhill*, Jericho.
 Edwin Joseph O'Connell, *ME*, 198 King St., W. Springfield, Mass.
 Harry Neal Parris, *ME*, 69 Brookes Ave., Ashland, Mass.
 Harold Arthur Pease, *ME*, 43 Fletcher Pl., Forestville, Conn.
 Robert Ralston Pond, *ME*, 4 University Rd., Burlington.
 Murray Lincoln Riggs, *EE*, *Richmond*, Richmond.
 Mervyn Aloysius Robair, *Sp(ME)*, 48 Elmwood Ave., Burlington.
 George Clifton Stanley, Jr., *CE*, 86 Loomis St., Burlington.
 William James Stetson, *CE*, *Colchester*, Colchester.
 Mead Ferrin Stevens, *ME*, 119 Buell St., Island Pond.
 Robert Sylvanus Stockwell, *CE*, 241 Loomis St., Hartford.
 Richard Leslie Swift, *ME*, S. Converse Hall, Fair Haven.
 Robert Paul Tarshis, *ME*, 21 N. Williams St., Westmount, Quebec, Canada.
 James Harrington Tennien, *ME*, 98 Brookes Ave., Pittsford.
 Albert Augustus Thorpe, *EE*, M. Converse Hall, Hamden, Conn.
 Howard Cadmus Vreeland, *EE*, *Sigma Alpha Epsilon House*, Rutherford, N. J.
 Clarence Edward Wade, *EE*, 115 Cherry St., Milton.
 Kenneth Elmer Waite, *EE*, M. Converse Hall, Bennington.
 Edward Morgan Wansor, *ME*, N. Converse Hall, Sea Cliff, N. Y.
 Harold Perrott Wood, *EE*, 101 N. Willard St., Newburyport, Mass.

UNCLASSIFIED

- Nathan Merrill Abbott, *Sp(ME)*, *Delta Psi House*, Burlington.
 Wilbur Earl Newton, *Sp(EE)*, 140 Colchester Ave., Burlington.

THE COLLEGE OF AGRICULTURE

SENIORS—*Class of 1940*

Emily Louise Abbott, *HE, Delta Delta Delta House*, West Newton, Mass.
Stuart James Anderson, *Ag, Delta Psi House*, E. Craftsbury.
Marjorie Elaine Bell, *HE, Kappa Alpha Theta House*, Jeffersonville.
LeRoy Melvin Bingham, *Ag, 267 S. Union St.*, Burlington.
Margaret Elouise Bodette, *HE, Alpha Chi Omega House*, Vergennes.
Richard Edward Dana, *Ag, 28 Latham Ct.*, N. Pomfret.
Katherine Everil Davis, *HE, 565 Main St.*, Wilmington.
Laura Corbin Dustan, *HE, Robinson Hall*, Craftsbury Common.
Donald Andrew Grady, *Ag, 177 S. Prospect St.*, Burlington.
George Tyler Hart, *Ag, 60 Colchester Ave.*, Rutland.
Bernice Carlene Hurlburt, *HE, 565 Main St.*, Monkton.
Harry Mack Ketcham, *Ag, Delta Psi House*, Newfane.
Cedric Arthur Lafley, *Ag, 80 N. Willard St.*, Enosburg Falls.
Reid Hayward Leonard, *Ag, 590 Main St.*, Derby.
Mary Phyllis McGovern, *HE, Kappa Alpha Theta House*, Cambridge.
George Henry Martin, *Ag, 43 Greene St.*, Townshend.
Jean Margaret Morse, *HE, Robinson Hall*, Essex Center.
Howard Fremont Nelson, *Ag, 60 Colchester Ave.*, E. Ryegate.
Elizabeth Orton, *HE, 249 Pearl St.*, St. Albans.
Harold Gordon Page, *Ag, 60 Colchester Ave.*, Groton.
Lucien Demers Paquette, *Ag, 43 Latham Ct.*, Craftsbury.
George Rossiter Pitman, *Ag, Alpha Tau Omega House*, Shaftsbury.
Helen Louise Reed, *HE, 565 Main St.*, Fair Haven.
Lawrence Martin Rice, *Ag, Delta Psi House*, Shelburne.
Hugh John Phillips Ripper, *Ag, Rock Point*, Burlington.
Claire Vivian Rock, *HE, Alpha Chi Omega House*, E. Barre.
John Clinton Rogers, *Ag, 60 Colchester Ave.*, Enosburg Falls.
Mary Frances Ruder, *HE, 83 Brookes Ave.*, Schenectady, N. Y.
Charles Harold Sheldon, *Ag, 20 Brookes Ave.*, Fair Haven.
Marion Alice Skinner, *HE, 29 Mansfield Ave.*, Orleans.
Eunice Hersey Slayton, *HE, Slade Hall*, Hardwick.
David Ernest Stowell, *Ag, Sigma Nu Lodge*, Bellows Falls.
Jean Genevieve Szyman, *HE, Slade Hall*, Claremont, N. H.
Helen Phyllis Towne, *HE, 27 Latham Ct.*, Milton.
Merlin Jerome Wells, *Ag, 43 Greene St.*, Plainfield.
Robert Ellis White, *Ag, 60 Colchester Ave.*, E. Ryegate.
Elizabeth Gertrude Whitney, *HE, Slade Hall*, Montpelier.
John Sidney Whitworth, *Ag, 60 Colchester Ave.*, Warren.
Kathryn Emma Worthheim, *HE, Delta Delta Delta House*, Richmond.

JUNIORS—*Class of 1941*

George Howard Bailey, *Ag, 51 North Willard St.*, Rochester.
Eloise Parker Bayley, *HE, 252 Colchester Ave.*, Burlington.
George Michael Broutsas, *Ag, 206 Bank St.*, Brattleboro.
Ellen Sydney Brown, *HE, Prospect House*, Springfield, Mass.
Hester Nettie Carver, *HE, Grassmount*, Weston.

Elmer Luther Chatfield, Ag, 43 *Greene St.*, Brandon.
Robert Davis Copp, Ag, *Swift St.*, S. Burlington.
Mildred Virginia Creamer, HE, 143 *S. Willard St.*, Ridley Park, Pa.
Harold Robert Cushman, Ag, *Vergennes*, Vergennes.
Robert Percy Davis, Ag, *Delta Psi House*, Morrisville.
Ruth Wright Davis, HE, *Prospect House*, S. Hero.
Elizabeth Catherine Doud, HE, 49 *Mansfield Ave.*, New Haven.
Laura Ann Douglas, HE, *Allen House*, Shoreham.
Madge Eleanor Duba, HE, 28 *Brookes Ave.*, Burlington.
Edward Oscar Eaton, Ag, *Sigma Alpha Epsilon House*, Waitsfield.
Dorothy Francis Emerson, HE, *Campus House*, Northfield.
Kenneth Jay Estey, Ag, 112 *Adams St.*, Hinesburg.
Ralph Frederick Evans, Ag, 60 *Colchester Ave.*, Groton.
Mary Arlene Fitzsimonds, HE, 32 *University Ter.*, Jericho.
Evelyn Merrill Fuller, HE, 252 *Colchester Ave.*, Chester.
Walter Atwood Gage, Ag, 34 *Williams St.*, Burlington.
Edson Emery Gifford, Jr., Ag, 4 *Hickok Pl.*, E. Bethel.
Howard Olive Gilmore, Ag, *University Farm*, Tinmouth.
Betty Doris Gordon, HE, 62 *Harrington Ter.*, Brooklyn, N. Y.
Madeline Ruth Greaves, HE, *Alpha Chi Omega House*, Morrisville.
Elizabeth Louise Gurney, HE, 416 *S. Willard St.*, Burlington.
Laura Ruth Hawley, HE, *Kappa Alpha Theta House*, New Rochelle, N. Y.
Elizabeth Charity Isham, HE, 44 *Charlotte St.*, Burlington.
Nancy Rodgers Jones, HE, *Kappa Alpha Theta House*, Belmont, Mass.
Kathleen Ruth LeBaron, HE, *Gates House*, Waterbury.
Frank Howard Livak, Ag, 12 *Brookes Ave.*, Rutland.
Barbara Read McIntosh, HE, 252 *Colchester Ave.*, S. Royalton.
Barbara Jessie Mann, HE, *Kappa Alpha Theta House*, N. Easton, Mass.
Shirley Watts Mayforth, HE, *Pi Beta Phi House*, Barre.
Curtis Arthur Moore, Ag, 80 *Colchester Ave.*, E. Dover.
James Harold Nelson, Ag, 60 *Colchester Ave.*, E. Ryegate.
Dawn Emily Nichols, HE, *Malletts Bay Club*, Winooski.
Dorothy Grace Nichols, HE, *Malletts Bay Club*, Winooski.
Elmer Lincoln Nichols, Ag, *Delta Psi House*, Westminster.
Francis Walter Nye, Ag, 60 *Colchester Ave.*, Barton.
Ernest Frederick Paquette, Ag, 43 *Latham Ct.*, Craftsbury.
Gertrude Louise Peters, HE, *Alpha Chi Omega House*, Bradford.
Irene Valentina Prondecki, HE, *Campus House*, Turners Falls, Mass.
Marian Lucy Rice, HE, *Kappa Alpha Theta House*, Shelburne.
Marion Aletta Root, HE, 249 *Pearl St.*, Burlington.
Mary Eleanor Shandoff, HE, *Alpha Xi Delta House*, Pittsfield, Mass.
Rae Gwendolyn Sheehan, HE, 32 *Brookes Ave.*, Newport.
Ransom Orcutt Slack, Ag, *Delta Psi House*, Vergennes.
George Merrill Ward, Ag, 60 *Colchester Ave.*, New Haven.
Virginia Evelyn Weyell, HE, 29 *Adsit Ct.*, Winsted, Conn.
Harry Ernest Wheeler, Ag, 60 *Colchester Ave.*, W. Charleston.
Jeannette Lucille Whipple, HE, *Kappa Alpha Theta House*, Montpelier.

SOPHOMORES—Class of 1942

Verna Margaret Allen, HE, 38 *Hickok Pl.*, Burlington.
Wilfred Henry Bourdeau, Ag, 60 *Colchester Ave.*, Middlebury.

Lyman Henry Brigham, Ag, 93 *Adams St.*, Burlington.
Floyd Walter Campbell, Ag, 62 S. *Union St.*, Strafford.
Robert Lackie Carlson, Ag, 62 S. *Union St.*, S. Ryegate.
Lucille Vian Clark, HE, *Allen House*, Rutland.
Wanda Emma Cobb, HE, 62 *Harrington Ter.*, Rutland.
Douglas Putnam Dana, Ag, 28 *Latham Ct.*, N. Pomfret.
Colin Campbell Drown, Ag, 243 *Colchester Ave.*, Newport.
Mary Bernadine Eselionis, HE, 323 *Pearl St.*, Shirley, Mass.
Catherine Helena Farrell, HE, *Shelburne*, Shelburne.
Barbara Marion Gallagher, HE, *Sanders Hall*, St. Albans.
Shirley Anne Hall, HE, *Allen House*, E. Randolph.
Evelyn Frances Haynes, HE, 37 *Ledge Rd.*, Poultney.
Charlotte Elisabeth Heath, HE, *Campus House*, W. Haven, Conn.
Carol Dorothy Isaksen, HE, *Gates House*, St. Albans, N. Y.
Ellen Agnes Isham, HE, R. F. D. No. 1, Burlington.
Joyce Kenyon, HE, *Richmond*, Richmond.
Gail Ferguson Klinger, HE, *Grassmount*, Cornwallville, N. Y.
Katherine Terese Kyle, HE, 145 *Robinson Pkwy.*, Brandon.
Lillian Conant Landon, HE, *Redstone*, New Haven.
William Patrick Leamy, Ag, 106 *Colchester Ave.*, Fair Haven.
Erva Ruth Livingston, HE, 51 *Monroe St.*, Burlington.
Clifford George Long, Ag, *Sigma Nu Lodge*, Oakfield, N. Y.
Herbert John Long, Ag, *Sigma Nu Lodge*, Oakfield, N. Y.
Anne Stockwell Lovell, HE, 14 *University Ter.*, Bellows Falls.
Joan Frances Lynch, HE, 220 *Main St.*, Burlington.
Jean Storer Mann, HE, *Grassmount*, Hempstead, N. Y.
Copeland Harris Marks, Ag, 8 *Decatur St.*, Burlington.
Gwendolyn Esther Marshia, HE, 225 S. *Willard St.*, Cambridge.
Pearl Rogene Marvin, HE, 27 *Latham Ct.*, Fairfax.
Frances Ann Merritt, HE, *Redstone*, Utica, N. Y.
Ruth Evelyn Orr, HE, 56 N. *Willard St.*, Vershire.
Hilda Leone Paquette, HE, 43 *Latham Ct.*, Craftsbury.
Lawrence John Partridge, Ag, 60 *Colchester Ave.*, Barre.
Gratia Houghton Pearl, HE, 154 *Summit St.*, Burlington.
Merton Sabin Pike, Ag, 54 *Brookes Ave.*, Stowe.
Barbara Lois Potter, HE, *Robinson, Hall*, Middlebury.
John Holden Pratt, Jr., Ag, 106 *Colchester Ave.*, N. Clarendon.
Madeline Flora Puffer, HE, 25 *Orchard Ter.*, Townshend.
Alice Beatrice Reichman, HE, *Warner House*, New York, N. Y.
Hester Doris Rice, HE, *Sanders Hall*, Derby Line.
Louise Mary Rugg, HE, 145 *Robinson Pkwy.*, Essex Junction.
Janice Ellen Russell, HE, 21 *Henderson Ter.*, Hinesburg.
Janet Elizabeth Rust, HE, 73 *Pine St.*, Burlington.
Arnold Chauncey Smith, Ag, 60 *Colchester Ave.*, Barton.
Martha Jane Stearns, HE, 62 *Harrington Ter.*, St. Johnsbury.
Norman Renwick Stoddard, Ag, 60 *Colchester Ave.*, Groton.
Glenn Clayton Streeter, Ag, 28 *Latham Ct.*, E. Concord.
Janet Taylor, HE, *Robinson Hall*, Attleboro, Mass.
Elizabeth Mary Thomas, HE, 323 *College St.*, Bomoseen.
John Merritt Thomas, Ag, 106 *Colchester Ave.*, Rutland.
William Chester Walker, Jr., Ag, 97 N. *Union St.*, Cabot.
Charles Alymer Webster, Ag, 43 *Greene St.*, Orleans.

Frederick Henry Webster, *Ag, 43 Greene St., Orleans.*
 Barbara Ann Wilcomb, *HE, Redstone, St. Johnsbury.*
 Lucy Jean Williams, *HE, Sanders Hall, Charlotte.*
 Charles Archibald Wilmot, *Ag, 243 Colchester Ave., E. Thetford.*
 Harriet Lee Woods, *HE, Allen House, Waterbury.*
 Beatrice Cecelia Wright, *HE, Sanders Hall, Windsor.*

FRESHMEN—Class of 1943

Marjorie Esther Abell, *HE, 31 Robinson Pkwy., Burlington.*
 Udell Putnam Ainsworth, *HE, 48 Colchester Ave., Rochester.*
 Helena Anderson, *HE, Sanders Hall, W. Glover.*
 Mildred Charlotte Anderson, *HE, 83 Brookes Ave., W. Rutland.*
 Cynthia Glenna Bailey, *HE, Essex Junction, Essex Junction.*
 Margaret Van Houten Baker, *HE, Redstone, Ridgewood, N. J.*
 Betty Eliza Bates, *HE, 63 Greene St., Westford.*
 Carroll Thomas Berry, *Ag, 16 Hickok Pl., Hinesburg.*
 Florence Miriam Bevins, *HE, 371 Flynn Ave., Burlington.*
 Robert Lee Bickford, Jr., *Ag, 20 Brookes Ave., Newport.*
 Douglas Herbert Blanchard, *Ag, Underhill, Underhill.*
 Harmond Joseph Bove, *Ag, Sigma Nu Lodge, Rutland.*
 Beverly May Carr, *HE, 422 North St., Burlington.*
 John Chernansky, *Ag, 116 N. Winooski Ave., Northampton, Pa.*
 Helen Dean Childs, *HE, Robinson Hall, Brooklyn, N. Y.*
 Phyllis Jean Cook, *HE, 107 Ledge Rd., Burlington.*
 Merle Wesson Crown, *Ag, 206 Maple St., Groton.*
 Eleanor Mae Davis, *HE, 63 Greene St., Underhill.*
 Claire Barbara Desautels, *HE, Allen House, St. Albans.*
 Dorothy Mildred Dews, *HE, Gates House, Waterbury, Conn.*
 Janet Dike, *HE, Allen House, Burlington.*
 Elaine Jeanne Doerfler, *HE, Redstone, Hastings-on-Hudson, N. Y.*
 James Field Duckworth, *Ag, M. Converse Hall, Springfield, Mass.*
 Roger Towle Dunton, *Ag, 80 N. Willard St., Enosburg Falls.*
 Kathleen Eleanor Easton, *HE, Sanders Hall, Shoreham.*
 Roger Spalding Edgerton, *Ag, 114 Loomis St., Burlington.*
 Raymond Arlo Elliott, *Ag, 348 College St., Groveton, N. H.*
 Wilfred Theodore Elliott, *Ag, 20 Brookes Ave., St. Johnsbury.*
 Robert Emmett Fenix, *Ag, 15 Perrotta Pl., Burlington.*
 Franklin John Fowler, *Ag, 515 North St., Manchester Depot.*
 Esther Allen Gove, *HE, Robinson Hall, Walpole, Mass.*
 Joseph Anthony Gull, *Ag, 136 Shelburne Rd., Pittsfield, Mass.*
 Francis William Haley, *Ag, 243 Colchester Ave., Middletown Springs.*
 Lola Livia Hawley, *HE, Allen House, New Rochelle, N. Y.*
 Richard Henry Iby, *Ag, 35 Volz St., Burlington.*
 Charlotte Catherine Kelley, *HE, 473 North St., W. Rutland.*
 Francis Martin Layden, *Ag, 60 Colchester Ave., Rutland.*
 James Walter Lee, Jr., *Ag, 99 N. Willard St., Burlington.*
 Edith Frances Libbey, *HE, Warner House, St. Albans.*
 Beth Inez Lund, *HE, Gates House, Hartford, Conn.*
 Helen Marie McGrath, *HE, 14 University Ter., St. Albans.*
 Margaret Van Valkenburgh McWain, *HE, Robinson Hall, Batavia, N. Y.*

Cortice Edward Mayville, Jr., Ag, 37 *Russell St.*, Milton.
 Frances Helen Mayville, HE, 24 *Nash Pl.*, Milton.
 Virginia Hutson Mitchell, HE, *Slade Hall*, Worcester, Mass.
 June Shirley Naylor, HE, *Redstone*, Alburgh.
 Ruth Marie Newell, HE, *Redstone*, Stamford, Conn.
 Doris Marie Nicholas, HE, *Redstone*, Hamden, Conn.
 Pauline Elizabeth Niles, HE, 433 *Main St.*, Montpelier.
 Scribner Chapin Palmer, Ag, M. *Converse Hall*, Hubbard Woods, Ill.
 Harry Chandler Parker, Jr., Ag, *Sigma Nu Lodge*, Johnson.
 Ray Irving Pestle, Jr., Ag, 243 *Colchester Ave.*, Waitsfield.
 Winston Wilder Pierce, Ag, 19 *Weston St.*, Franklin.
 Lucie Grace Pike, HE, *Sanders Hall*, Irasburg.
 Patricia Helen Pike, HE, 262 *Pearl St.*, Burlington.
 Carmen Pauline Pine, HE, 483 *North St.*, Burlington.
 Harold Mosher Pulling, Ag, 12 *Brookes Ave.*, Rutland.
 Irene Marian Quimby, HE, 59 *N. Willard St.*, Barnet.
 Barbara Isabel Robinson, HE, *Winooski*, Winooski.
 Ada Louise Selleck, HE, *Sanders Hall*, Brandon.
 Florence Adelaide Smith, HE, 59 *N. Willard St.*, Treadwell, N. Y.
 Marjorie Louise Smith, HE, 17 *Henry St.*, Plainfield.
 Claradella Snow, HE, 49 *Mansfield Ave.*, Barre.
 Lavinia Natalie Spear, HE, *Allen House*, St. Albans.
 Robert Prindle Story, Ag, 243 *Colchester Ave.*, Rutland.
 Marian Clarissa Stoughton, HE, 167 *Ferguson Ave.*, Keeseville, N. Y.
 Robert Stuart Strachan, Ag, M. *Converse Hall*, Hempstead, L. I., N. Y.
 Howard Clifford Tatro, Ag, 19 *Weston St.*, Ferrisburg.
 Mary Elizabeth Tuckerman, HE, *Shelburne Rd.*, New Haven, Conn.
 Lucy Miller Upson, HE, *Redstone*, Dundee, N. Y.
 Ruth Cathirene Walker, HE, 433 *Main St.*, Cabot.
 Doris Marjorie Welsh, HE, *Redstone*, Albany, N. Y.
 Reginald Stewart White, Ag, 206 *Maple St.*, Ryegate.
 Harriet Titus Whitson, HE, *Warner House*, Lake Ronkonkoma, L. I., N. Y.
 Margaret Eleanor Wishart, HE, 15 *Beach St.*, Burlington.
 Orville John Yandow, Jr., Ag, *Essex Junction*, Essex Junction.
 Robert Albert Zellner, Ag, S. *Converse Hall*, Caldwell, N. J.

UNCLASSIFIED

Helen Margaret Barker Albert (Mrs.), Ph.B., Sp(HE), 27 *Isbam St.*, Burlington.

*THE DEPARTMENT OF EDUCATION

SENIORS—Class of 1940

Helen Louise Berry, *Alpha Chi Omega House*, Brattleboro.
 Robert Bolcum Brock, 206 *Maple St.*, Groton.
 John Charles Brosseau, 43 *Fletcher Pl.*, Highgate Falls.

* The curriculum is Elementary Education unless otherwise noted.

Gertrude Elizabeth Burbank, *Sanders Hall*, Chelsea.
 Lina Josephine Caravatti, 45 *School St.*, South Ryegate.
 Claire Katherine Delaney, 11 *S. Union St.*, Middlebury.
 Marie Antoinette DeLarichelière, *S. Burlington*, S. Burlington.
 Patricia Dubois, 56 *N. Willard St.*, N. Troy.
 Veleida Louise Fleming, 26 *University Ter.*, Bennington.
 Eleanor Hall Fletcher, *Redstone*, Woodstock.
 Joyce Lizbeth Gardner, *MusEd*, 565 *Main St.*, Cabot.
 Alice Mary Heath, 83 *Brookes Ave.*, Barton.
 Mary Jane Howe, *Alpha Chi Omega House*, Tunbridge.
 Alice Belle Hudson, *Rock Point*, Burlington.
 Lillian Lois Jacobs, 284 *North St.*, Burlington.
 Hilda Mae LaDeau, 421 *North St.*, Fairlee.
 Mary Jane Josephine Lechnyr, *MusEd*, 10 *Russell St.*, Burlington.
 Edna Carolyn Liese, *Allen House*, Chelsea.
 Kathleen Elizabeth Lowell, 63 *Greene St.*, New Haven.
 Helen Ruth Maeck, *MusEd*, *Kappa Alpha Theta House*, Shelburne.
 Edna Mae Marsett, *Slade Hall*, Shelburne.
 Mary Pasona Mele, *Malletts Bay*, Malletts Bay.
 Rose Agatha Miele, 26 *University Ter.*, Ludlow.
 Esther Beatrice Moore, 26 *University Ter.*, Fair Haven.
 Lois Clarissa Murray, 565 *Main St.*, Richmond.
 Kathleen Mary Naramore, 56 *N. Willard St.*, Lowell.
 Dolores Meissner Proctor (Mrs.), 134 *S. Union St.*, Burlington.
 Margaret Ethel Riddell, 26 *University Ter.*, Williamstown.
 Ruth Hall Seaver, *Delta Delta Delta House*, Taftsville.
 Bettina French Terrill, 147 *N. Prospect St.*, Burlington.
 Florence Isabel Wade, *Redstone*, E. Dorset.
 Elizabeth Lyon Watts, *Alpha Chi Omega House*, Jamaica.
 Carol Susan Westall, *Delta Delta Delta House*, Richmond.

JUNIORS—Class of 1941

Elnora May Anderson, 120 *Colchester Ave.*, Craftsbury Common.
 Bertha Mae Bapp, 19 *Fletcher Pl.*, Underhill.
 Muriel Frances Barber, *Campus House*, Wilmington.
 Wayne Russell Barrows, *MusEd*, 104 *S. Union St.*, Burlington.
 Sylvia Kabler Bergman, 22 *Loomis St.*, Burlington.
 Hiram Orlando Bevins, *MusEd*, *Milton*, Milton.
 Barbara Katharine Blodgett, 10 *S. Willard St.*, Montgomery Center.
 Sarah Ann Brigham, *MusEd*, 448 *North Ave.*, Burlington.
 Helen Frances Carr, 422 *North St.*, Burlington.
 Lorraine Carver, 276 *College St.*, Burlington.
 Margaret Jeannette Cass, 26 *University Ter.*, Springfield.
 Alice Elizabeth Cole, *MusEd*, *Alpha Chi Omega House*, Barre.
 Ruth Marion Conner, *Allen House*, Barton.
 Idora Gertrude Cooley, *Alpha Xi Delta House*, Randolph Center.
 Josephine Dorothy Crepkowski, 49 *Henderson Ter.*, Springfield.
 Margaret Esherick, *Kappa Alpha Theta House*, Philadelphia, Pa.
 Nita Thelma Falby, 441 *S. Union St.*, Burlington.
 Ora Gladys Heywood, 29 *Wilson St.*, E. Ryegate.

Mary Elizabeth Hosley, *Alpha Chi Omega House*, Manchester Center.
Thelma King, 26 *University Ter.*, Island Pond.
Cleo Lovina Lovett, 196 S. *Union St.*, Bennington.
Thomas Keeshon Malone, Jr., *MusEd*, 69 *Brookes Ave.*, Burlington.
Madeline Elsie Martin, *Milton*, Milton.
Juliette Haven Miller, 21 *Ledge Rd.*, Putney.
Chester Earl Minkler, *MusEd*, 106 *Colchester Ave.*, Proctor.
Eleanor Jane Munger, 43 N. *Willard St.*, Orwell.
George Readington Pease, 134 *Ferguson Ave.*, Burlington.
Evelyn Ann Perkins, *Alpha Xi Delta House*, St. Albans.
Louis Pichierri, *MusEd*, 60 *Grove St.*, Burlington.
Paul Raymond Poulin, *MusEd*, 106 *Colchester Ave.*, Burlington.
Alice Louise Powers, 25 *Orchard Ter.*, Middletown Springs.
Elaine Julia Pratt, 565 *Main St.*, Vergennes.
Frances Allen Rogers, *Sanders Hall*, Townshend.
Kathryn Marie Silliman, 76 *King St.*, Burlington.
Janice Maurine Spear, *MusEd*, *Alpha Xi Delta House*, St. Albans.
Madeline Edna Tatro, *Warner House*, Highgate Center.
Oletha Nelia Thompson, 29 *Mansfield Ave.*, Bristol.

♣ SOPHOMORES—Class of 1942

Shirley Isabel Barney, 19 *Fletcher Pl.*, Swanton.
Mildred Edna Belville, 164 N. *Union St.*, Barre.
Ann Bingham, 29 *Mansfield Ave.*, Waterbury.
Mary Spear Bissell, *Alpha Xi Delta House*, Saxtons River.
Orrin Marnald Brawn, *MusEd*, 89 *Buell St.*, St. Johnsbury.
Barbara Ruth Brewster, *Essex Junction*, Cambridge.
Alexandrina Georgette Coutu, 29 *Mansfield Ave.*, Westfield.
Barbara Emma Dane, 29 *Mansfield Ave.*, Cabot.
Dorothy Ruth Dickinson, 14 *University Ter.*, Bellows Falls.
Celia Fleischmann, 39 *Bright St.*, Burlington.
Ida Rachel Hall, 59 N. *Willard St.*, Saxtons River.
Nora Eunice Hill, *MusEd*, 14 *University Ter.*, Lyndon Center.
Helen Frances Huckabee, 14 *University Ter.*, Randolph Center.
Evelyn Pearl Kellett, 63 *Greene St.*, Waterbury Center.
Dorothy Frances McCormick, 83 N. *Willard St.*, Burlington.
Jean Louise McMahon, 139 N. *Willard St.*, Barre.
Margaret Elizabeth McPherson, 139 N. *Willard St.*, Graniteville.
Mildred Arlene McRae, *Warner House*, St. Johnsbury.
Janet Cameron Miller, *MusEd*, *Gates House*, Greenland, N. H.
Ruth Madeline Mongeon, *Winooski*, Winooski.
Dorothy Hannah Murphy, 455 *North St.*, Burlington.
Patricia Nadeau, 56 N. *Willard St.*, Madison, Conn.
James David Neill, *Sigma Nu Lodge*, Randolph.
Maxine Elizabeth Nute, 139 N. *Willard St.*, Barre.
Rose DeLima Poquette, 66 *King St.*, Grand Isle.
Olive Ella Ransom, 48 *Colchester Ave.*, Jericho.
Myrtle Edith Raymond, *Redstone*, Bridgewater.
June Everen Riddell, *Delta Delta Delta House*, Graniteville.
Dorothy Norma Rockwell, *MusEd*, 56 N. *Willard St.*, Alburgh.

Margaret Joy Sandall, *256 S. Winooski Ave.*, Burlington.
 Dorothy Schwenger, *MusEd, 50 Robinson Pkwy.*, Northfield.
 Charlotte Louise Scott, *198 East Ave.*, Burlington.
 Ethel Bartlett Shippee, *49 Mansfield Ave.*, W. Dover.
 Lorraine Mae Thibault, *56 N. Willard St.*, Waterbury.
 Grace Ellen Thompson, *252 Colchester Ave.*, Milton.
 Guy Thomas Trono, *430 Colchester Ave.*, Burlington.
 Barbara Helmer Tucker, *Campus House*, Nyack-on-Hudson, N. Y.
 Cecile Rita Villemaire, *Winooski*, Winooski.
 Katherine Ward, *49 Mansfield Ave.*, St. Johnsbury.
 Hazen Francis Wood, *Delta Psi House*, Randolph.

FRESHMEN—*Class of 1943*

Irene Mabel Beattie, *Allen House*, St. Johnsbury.
 Norman Hubert Beaulieu, *206 Bank St.*, Barre.
 Kathleen Benson, *280 Colchester Ave.*, Springfield, Mass.
 Wanda Eunice Bevins, *25 University Ter.*, St. Albans.
 Ethel Lucille Brooks, *Warner House*, Middlebury.
 Alice Estelle Brown, *56 Hoover St.*, Marshfield.
 Hazel Edna Butterfield, *Prospect House*, Middlebury.
 Marjorie Elaine Carbino, *206 Summit St.*, W. Bridgewater.
 Suzanne Jane Carter, *Allen House*, Barre.
 Margaret Lorretta Cassidy, *76 Park St.*, Burlington.
 Celia Marion Cioffi, *49 Henderson Ter.*, St. Albans.
 Helen Pauline Cole, *46 Charlotte St.*, Quechee.
 Sophia Marjory Counos, *49 Cherry St.*, Burlington.
 Jeanne Cecile Coutu, *177 S. Union St.*, Westfield.
 Wilfred Hassan Davis, *567 St. Paul St.*, Vergennes.
 Barbara Mae Dunbar, *29 Mansfield Ave.*, St. Albans.
 Isabelle Louise Farrar, *63 Greene St.*, Craftsbury Common.
 Gloria Rosita Farrell, *65 N. Willard St.*, Rutland.
 Priscilla Elfie Fisher, *29 Adsit Ct.*, Bartonsville.
 Dorothy Viola Franklin, *29 Wilson St.*, E. Ryegate.
 Beryle Emily Gardner, *59 N. Willard St.*, Cabot.
 June Louise Hall, *27 Latham Ct.*, Derby.
 Janet Hunter Heath, *48 Colchester Ave.*, Barton.
 Mary Jane Higgins, *35 Converse Ct.*, Burlington.
 Elizabeth Ruth Horskin, *25 Orchard Ter.*, Franklin.
 Agnes Isabel Husk, *25 Orchard Ter.*, Ferrisburg.
 Earlene Marian Jenness, *Allen House*, Barton.
 Morna Elizabeth Lang, *63 Greene St.*, Stowe.
 Eleanor Marie Langeway, *59 N. Willard St.*, Vergennes.
 Marie Esther Langeway, *59 N. Willard St.*, Vergennes.
 Mary Valeska Lessor, *MusEd, 59 Mansfield Ave.*, Burlington.
 Charlotte Mary Martin, *112 N. Champlain St.*, Burlington.
 Betty Jacqueline Mead, *106 Colchester Ave.*, Hinesburg.
 Doris Elizabeth Megan, *Fort Ethan Allen*, Fort Ethan Allen.
 William Henry Milne, *11 Hickok Pl.*, Barre.
 Jean Alice Murphy, *455 North St.*, Burlington.
 Maria Elisabeth Nesor, *12 Russell St.*, Burlington.

Velma Mae Phillips, *Williston Rd.*, Burlington.
Betty Marie Preston, *Allen House*, Salisbury.
Vashti Marylyn Randall, *10 Pearl St.*, Underhill.
Louise Farnum Rice, *Prospect House*, Arlington.
Marion Arlene Scott, *48 Colchester Ave.*, Barton.
Marjorie Evelyn Southworth, *32 University Ter.*, Bethel.
Doris Gordon Squire, *MusEd, Allen House*, Waterbury.
Palla Lois Stickney, *Allen House*, E. Thetford.
Mary Rita Streeter, *21 Colonial Sq.*, Burlington.
Gastonette Gloria Trotter, *25 Orchard Ter.*, Wilder.
Barbara Priscilla Tucker, *83 Brookes Ave.*, Fitchburg, Mass.
Claire Ethel White, *88 N. Winooski Ave.*, Burlington.
Rose Margaret Woodard, *83 Brookes Ave.*, Bennington.

UNCLASSIFIED

Agnes Dorothy Walker Edson (Mrs.), *PH.B., Sp (ElEd)*, *110 Church St.*, Cabot.
Donald Roy Gage, *Sp (MusEd)*, *16 Adams St.*, Lyndonville.
Mary Wigal Whitney (Mrs.), *Sp (ElEd)*, *328 Pearl St.*, Northfield.
Effie Evelyn Winn, *B.S., Sp (MusEd)*, *241 N. Willard St.*, Burlington.

THE COLLEGE OF MEDICINE

SENIORS—Class of 1940

Howard Huntington Allen, *Nu Sigma Nu House*, Greensboro.
Sidney Alpert, *B.S., 197 N. Willard St.*, Lakewood, N. J.
Harry Joseph Antoniewicz, *B.S., Fanny Allen Hospital*, Springfield.
Joseph Michael Baker, *D.M.D., 16 Brookes Ave.*, Brattleboro.
Lewis Willard Barton, *B.S., 93 Buell St.*, Lexington, Mass.
Sanford Raphael Bloomenthal, *B.S., 350 North St.*, Burlington.
Joseph Thomas Bottamini, *B.S., 190 Loomis St.*, Brandon.
John Harold Browe, *A.B., 24 Booth St.*, Burlington.
Burton Donald Bryan, *A.B., Mary Fletcher Hospital*, Montpelier.
Roy Vedder Buttles, *B.S., 457 S. Willard St.*, Burlington.
Clarence Lucian Chester, *B.S., 20 Brookes Ave.*, Cabot.
Paul Merrill Choate, *B.S., Alpha Tau Omega House*, W. Barnet.
Howard Rawson Clement, *B.S., 39 Brookes Ave.*, Newport.
Raynald Thomas Cooney, *B.S., 343 College St.*, Burlington.
Kermit Stephen Dugan, *B.S., Williston Rd.*, Newport Center.
John Ralph Evans, Jr., *B.S., Kappa Sigma House*, S. Orange, N. J.
John Frederic Gowdey, *B.S., Fanny Allen Hospital*, Montpelier.
Harvey Furry Grazier, *24 Grant St.*, Johnstown, Pa.
Lois Miriam Hammond, *B.S., 121 N. Union St.*, Burlington.
Max Harris, *B.S., 146 Mansfield Ave.*, St. Albans.
Clarence Wayne Harwood, *B.S., 20 Mansfield Ave.*, Rupert.
Jay Edgar Keller, *Fanny Allen Hospital*, Burlington.
Roger Arthur Kenworthy, *B.S., Nu Sigma Nu House*, Middlebury.
Einar Albin Lundberg, *B.S., 40 Kingsland Ter.*, Proctor.

William Gordon MacDonald, B.S., *Nu Sigma Nu House*, Wilmington.
 John Power Magner, 87 *N. Prospect St.*, W. Rutland.
 Philip Gardner Merriam, 190 *Loomis St.*, Maidstone.
 Richard Vaughan Newcombe, B.S., 98 *N. Prospect St.*, Burlington.
 Russell Smith Page, Jr., A.B., *Nu Sigma Nu House*, Hyde Park.
 Frances Ellen Rowe, B.S., 355 *S. Union St.*, Evanston, Ill.
 William Ireland Shea, A.B., 26 *Clarke St.*, Burlington.
 Howard Whitcomb Stanley, B.S., *Colchester*, Colchester.
 Frederick Whiting Timmerman, B.S., 190 *Loomis St.*, Morrisville.
 Ransom Edward Tucker, B.S., 190 *Loomis St.*, Warren.
 William Vilardo, B.S., 350 *North St.*, Garfield, N. J.
 Harold Eugene Williamson, B.S., 455 *Shelburne Rd.*, Bristol.

JUNIORS—Class of 1941

Clifford Clark Agnew, B.S., 41 *N. Prospect St.*, Brattleboro.
 Joel Allen, A.B., 164 *N. Union St.*, Burlington.
 Renwick Keese Caldwell, B.S., 34 *N. Williams St.*, Burlington.
 Rocco Cassone, B.S., 38 *Bradley St.*, Stamford, Conn.
 Clifford Tremain Conklin, Jr., B.S., 96 *Buell St.*, Brandon.
 William Stephen Dempsey, A.B., *Nu Sigma Nu House*, St. Albans.
 Gino Aldo Dente, 63 *Buell St.*, Barre.
 Harry Cary Halsted, A.B., 101 *Brookes Ave.*, New York, N. Y.
 Myron Norman King, B.S., 146 *Mansfield Ave.*, Dorchester, Mass.
 Joyce Walter Kingsley, Jr., B.S., 20 *Isbam St.*, Burlington.
 Oscar Joseph LaRiviere, B.S., 110 *College St.*, Burlington.
 Harry Alton MacMillan, B.S., *Kappa Sigma House*, Plainfield.
 Photius Demetrius Mamos, B.S., 169 *Main St.*, Burlington.
 Lyle John Monti, B.S., 34 *Buell St.*, Barre.
 Deane Fremont Mosher, B.S., 72 *Greene St.*, Newport.
 William Joseph Mulligan, A.B., 17 *Wilson St.*, Springfield, Mass.
 James Patrick O'Neil, B.S., 272 *Pearl St.*, Burlington.
 Victor Joseph Pisanelli, 252 *Pearl St.*, Rutland.
 John Stephen Poczabut, Jr., B.S., 163 *Loomis St.*, Florence.
 Henry Lewis Pratt, B.S., 19 *Booth St.*, Rutland.
 Maurice Emerson Rowe, B.S., 38 *East Ave.*, Barnet.
 Mary Helen Rowley, B.S., *Milton*, Milton.
 Harry Richard Ryan, Jr., A.B., *Nu Sigma Nu House*, Rutland.
 Robert Newton Saxby, B.S., *Delta Psi House*, Morrisville.
 Leo Schneller, B.S., 205 *King St.*, Woodside, L. I., N. Y.
 Leo Maurice Seltzer, A.B., 25 *Brookes Ave.*, Barre.
 Bartlett Henry Stone, B.S., 19 *Booth St.*, White River Junction.
 Harry Berne Werner, B.S., 92 *Brookes Ave.*, Bronx, N. Y.
 Geoffrey Paul Wiedeman, B.S., 108 *DeForest Rd.*, Burlington.
 Jack Wool, B.S., 275 *S. Winooski Ave.*, Burlington.
 John Thomas Wright, B.S., 75 *Grant St.*, Waterbury.

SOPHOMORES—Class of 1942

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 Donald Louis Bashaw, B.S., *Winooski*, Winooski.

Paul Norman Berry, B.S., 106 Loomis St., Richmond.
Myer Harold Boyarsky, B.S., 81 Spring St., Burlington.
Peter Demosthenes Corsones, B.S., 165 Main St., Rutland.
John Alexander Davidson, A.B., 10 S. Willard St., St. Albans.
Otley Leland Dugan, Jr., Williston Rd., Newport Center.
Robert Bryon Dugan, B.S., Williston Rd., Newport Center.
Frank Dayton Eddy, B.S., 231 Maple St., Burlington.
Dean Harding Edson, 94 Loomis St., W. Lebanon, N. H.
Richard Francis Farrell, B.S., 163 Loomis St., Shelburne.
Malcolm Wendt Finlayson, 123 Loomis St., Cleveland Heights, Ohio.
Christian Gronbeck, Jr., B.S., 123 Loomis St., E. Barnet.
Frank Edward Harrigan, Jr., B.S., Delta Psi House, W. Hartford, Conn.
James Howard Kelleher, B.S., 234 Pearl St., Montpelier.
John Edward Kennedy, B.S., 44 Brookes Ave., Adams, Mass.
Avery Parsons King, B.S., 10 S. Willard St., St. Albans.
Emery Othello Lewis, B.S., 40 Kingsland Ter., Montpelier.
Leon Robert Lezer, B.S., Mary Fletcher Hospital, Websterville.
Robert Likovsky, B.S., 219 N. Winooski Ave., Burlington.
John Prentiss Lord, B.S., 102 Summit St., Brattleboro.
Frederick Powers McIntyre, B.S., 163 Loomis St., Brandon.
Ernest Lee Mills, B.S., 339 Colchester Ave., Burlington.
George Bernard O'Connell, Jr., B.S., 44 Brookes Ave., Lewiston, Me.
Robert Graham Paterson, B.S., 106 Loomis St., E. Craftsbury.
Albert Francis Snay, Jr., B.S., 72 Greene St., White River Junction.
Edward Chapman Stannard, A.B., 28 Brookes Ave., Fair Haven.
Ernest Philip Tomasi, B.S., 234 Pearl St., Montpelier.
Maurice Traunstein, Jr., B.S., 146 Mansfield Ave., Allston, Mass.
Horatio Paul Wakefield, B.S., 262 North Ave., Burlington.
Charles Flagg Whitney, Jr., B.S., 19 Kingsland Ter., Burlington.
Robert Lewis Whitney, Essex Junction, Essex Junction.

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Paul John Audette, 50 S. Willard St., Burlington.
Maurice Flavian Beauchamp, B.S., 64 N. Prospect St., Rutland.
Leonard Joseph Bisaccia, B.S., 28 Williams St., New Hartford, Conn.
Clarence Halsall Brown, 52 N. Prospect St., Rutland.
Lawrence John Cleveland, A.B., 234 Pearl St., Northfield.
Joseph William Connelly, B.S., 231 S. Prospect St., Albany, N. Y.
Ralph Leslie Cudlipp, Jr., Fort Ethan Allen, Fort Ethan Allen.
Seymour Saul Cutler, B.S., 123 Loomis St., Brooklyn, N. Y.
Lloyd George Davies, 11 N. Willard St., Bath, Me.
Stilman George Davis, Jr., B.S., 28 Williams St., Nashua, N. H.
Harland Martin Deos, A.B., 72 Greene St., Lyndonville.
James Curtis Giddings, B.S., 15 N. Williams St., New Haven, Conn.
Walter Martin Glass, B.S., 21 Loomis St., Burlington.
William Mead Griffin, 102 Summit St., Hackensack, N. J.
Richard Berry Hadley, A.B., 10 S. Willard St., Bellows Falls.
John Alexander Hunter, Jr., B.S., 102 Summit St., Dover, N. H.
Paul Calvin Jenks, 88 N. Prospect St., Burlington.

Robert Ellis Johnstone, 140 N. Prospect St., Burlington.
 Barbara Elizabeth Jones, B.S., 16 S. Winooski Ave., Burlington.
 Norman Kemler, B.S., 410 S. Winooski Ave., Burlington.
 Murray Newman Levin, B.S., 166 Loomis St., Burlington.
 Jack Thompson Prior, B.S., 28 Williams St., St. Albans.
 Harry Morrison Rowe, B.S., 25 Brookes Ave., Barnet.
 Edward Joseph Sennett, PH.B., 49 S. Winooski Ave., Poultney.
 Paul McLachin Stoddard, 60 Colchester Ave., Peacham.
 John Ernest Thayer, 38 Lafayette Pl., Burlington.
 George Arthur Tulin, B.S., 166 Loomis St., Hartford, Conn.
 Harry Owen Whipple, A.B., 28 Williams St., Montpelier.
 Allan Yale Wolinsky, 47 S. Winooski Ave., W. Rutland.
 Frank Edward Woodruff, A.B., 55 University Ter., Barre.
 James Graham Woodruff, A.B., 55 University Ter., Barre.

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 Mildred M. Abbott, St. Johnsbury.
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 Alice L. Adams, Eden.
 Stella M. Adams, B.S., Hebron, N. H.
 Glenn Aiken, M.S., Burlington.
 Howard S. Aiken, B.S., Xenia, Ohio.
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 Josephine M. Albisetti, Barre.
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 Alice P. Allen, Bridgewater Corners.
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 Carl Anderson, B.S., Thetford.
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 Edith M. Barrett, Thetford Center.
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 Oliveretta Bash, B.S., Ingram, Pitts., Pa.
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 Christine A. Batten, E. Ryegate.
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 Anso Belardinelli, Norwalk, Conn.
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 Mildred G. Benedict, Moretown.
 Annie J. Bennett, Bury, Quebec, Canada.
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 Patricia K. Bennett, Bury, Quebec, Canada.
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 Sarah A. Brigham, Burlington.
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 Blanche H. Butterfield, Jacksonville.
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 Kendall S. Carpenter, B.S., Barton.
 Margaret I. Carpenter, W. Danville.
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 May Elizabeth Carroll, Ticonderoga, N. Y.
 Nellie E. Carroll, Waterbury, Conn.
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 Ora S. Castle, Rutland.
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 Doris R. Cole, Brookline, Mass.
 Jeanne R. Cole, Brooklyn, N. Y.
 John L. Cole, Glens Falls, N. Y.
 Laura P. Coleman, Richmond.

- Katharine B. Collier, A.B., Brooklyn, N. Y.
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 Beatrice I. Colvin, ED.B., W. Warwick, R. I.
 Alice M. Conlon, Burlington.
 Sister Mary Regis Conlon, A.B., Rutland.
 Eileen K. Connelly, Cambridge.
 Jennie E. Connors, New London, Conn.
 Helen Converse, A.B., Bridport.
 John T. Conway, B.S., New London, Conn.
 Irene E. Cook, A.B., N. Andover, Mass.
 Margaret M. Cook, Mount Holly.
 Anne K. Cookman, Chester Depot.
 Gertrude Cooper, B.S., Cheyenne, Wyo.
 Helen Cooper, A.B., Attleboro, Mass.
 Marion G. Corbett, Wilmington.
 Mary E. Corcoran, Rutland.
 Mary H. Corriveau, Passumpsic.
 Kevin M. Cosgrove, St. Johnsbury.
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 Andrea C. Coumont, Lewiston, Me.
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 Robert A. Crandall, Upper Darby, Pa.
 Martha H. Crane, Burlington.
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 Lorraine B. Cushman, A.B., Bolton Landing, N. Y.
 Elizabeth W. Dailey, Calais.
 Tom S. Dailey, A.B., Follansbee, W. Va.
 M. Edward Dakin, A.B., Sharon, Conn.
 Frank Damrosch, A.B., Doylestown, Pa.
 Charles T. Davenport, Geneva, N. Y.
 Alan Davidson, A.B., St. Albans.
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 Mary E. Davis, Annapolis, Md.
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 Pearl A. Day, Sheffield.
 Jessie E. Dayton, A.B., Elizabeth, N. J.
 Regina A. Dean, N. Pownal.
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 Mary L. Dee, A.B., Hancock, Mass.
 Mary R. Delfoe, Paterson, N. J.
 Beverlee R. Demeritt, Waterbury.
 Clinton W. Demeritt, B.S., Burlington.
 Burt L. Dexter, A.B., Canaan.
 Gladys A. B. Dexter, A.B., Canaan.
 Paul A. Dicke, Upper Montclair, N. J.
 Gladys Dickey, PH.B., Kirkwood, Mo.
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 Jean Dingerson, Burlington.
 Jerolemon C. Ditore, Brooklyn, N. Y.
 Edward D. Donnelly, New Haven, Conn.
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 Marie V. Donovan, Bristol, Conn.
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 Verna A. Dotter, B.S., Northampton, Pa.
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 George V. Drabble, A.B., Rochester.
 Ruth C. Drummond, St. Johnsbury.
 Annette M. DuBrule, Burlington.
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 Isabelle L. Ducharme, E. Fairfield.
 Mary C. Duffy, Flushing, N. Y.
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 Eleanor J. Dundon, Granville, N. Y.
 Donald G. Dunn, Burlington.
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 Grace M. Durling, B.S., Elizabeth, N. J.
 Ruth E. Dwinell, N. Montpelier.
 Daniel B. Dyer, B.S., Craftsbury Common.
 Loretta E. Dyke, B.S., Burlington.
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 Ralph A. Eaton, B.S., Morrisville.
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 Roger S. Edgerton, Burlington.
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 Winifred G. Ellis, A.B., Northfield.
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 Marian E. Engelhard, Atlantic City, N. J.
 Irene E. Eno, Rutland.
 Edwina L. Estabrook, Pittsfield.
 Susanna Eszenyi, Hungary.
 Marguerite Etzel, Roseville, Calif.

- Barbara E. Evans, Essex Junction.
 Gratia L. Exley, W. Barnet.
 May E. W. Fagan, AuSable Forks, N. Y.
 Lenore M. Farnham, A.B., Napoleon, Ohio.
 Alice S. Farrington, White River Junction.
 Jerome H. Farwell, B.S., Wells River.
 Weinande A. Favorite, Newtonville, Mass.
 Teresa M. Fayette, B.S., Burlington.
 Barney Feldman, A.B., Lynn, Mass.
 Goldye B. Feldman, A.B., New York City.
 Susan M. Phillips, Metuchen, N. J.
 Florence M. Fisher, Burlington.
 Lila A. Fisher, Concord.
 Ruth Fisher, Providence, R. I.
 Wealtha B. Fisher, Vergennes.
 Wendell E. Fitts, Burlington.
 Howard F. Fitzgerald, Bennington.
 Mildred A. Fitzpatrick, Brooklyn, N. Y.
 Elizabeth B. FitzSimonds, Underhill.
 Anna K. Fitzsimons, Underhill.
 Edmund H. Flagg, Craftsbury Common.
 Florence R. Flagg, Middlebury.
 Myra B. Flanders, Quechee.
 Edward A. Flynn, Jr., Belleville, N. J.
 Helen G. Flynn, Essex Junction.
 Etta M. Folsom, Williamsville.
 Rena H. Forbush, Lisbon, N. H.
 Jessie W. Ford, A.B., Boston, Mass.
 Ethelyn G. Foster, P.H.B., Underhill.
 Robert G. Foster, Shaker Heights, Ohio.
 Anna M. Fox, Winooski Park.
 Marion W. Fox, B.S., Atlantic City, N. J.
 Hazel M. Franklin, Sanford, Me.
 May Rose Fratus, A.B., Newtonville, Mass.
 Bessie H. Freedman, Jersey City, N. J.
 Monroe A. Freedman, New York City.
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 Frances C. Fuller, Charlotte.
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 Edwin C. Gilland, Jr., A.B., Red Bank, N. J.
 Elliott S. Gilman, B.S., Barton.
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 Donald A. Grady, Burlington.
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 John S. Greene, Burlington.
 Lucius H. Greene, N. Conway, N. H.
 Mildred C. Greene, A.B., Newark, N. J.
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 Dorothy T. Gross, Northfield.
 Dorothy B. Grover, Stowe.
 Maude P. Guillow, Gardner, Mass.
 Alexandrina M. Guilmette, Rochester.
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 James L. Gunn, B.S., Weare Center, N. H.
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 Alura D. Hamel, Swanton.
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 Doris C. Hanson, Milton.
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 Mary T. Hayes, Fair Haven.

- Ethel M. Hazen, Hartford.
 Catherine D. Heald, Proctorsville.
 Marjorie O. Heffernan, Burlington.
 Ruth E. Hefflon, St. Albans.
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 Suzanne R. Hopson, Yonkers, N. Y.
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 Marion E. Horan, Proctor.
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 Irwin H. Hoxie, B.S., Hardwick.
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 Nathaniel D. Hoyt, New York City.
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 Nina E. Hughes, Castleton.
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 Henry E. Hunt, B.S., Newport.
 Pauline E. Hunt, Ph.B., Vergennes.
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 Sherman H. Joslin, B.ED., Monroe, N. H.
 Ruth Bernice Kappeler, A.B., Peoria, Ill.
 Charles, Kaufman, A.B., Detroit, Mich.
 Sister Mary Michael Kearney, B.S., Rutland.
 Jack G. Kearton, Union City, N. J.
 H. Paul Keebler, B.S., Philadelphia, Pa.
 Hester Kehoe, Rutherford, N. J.
 Jack C. Keir, A.B., Windsor.
 Donald F. Kellogg, A.B., Bellows Falls.
 Dorothy V. Kelly, Freeport, N. Y.
 Vesta M. Kempton, Northfield.
 Harry A. Keniston, B.E., St. Johnsbury Ctr.
 Marion R. Keniston, Sheffield.
 Mary R. Kennedy, Milton.
 Rose M. Kerrigan, Rutland.
 Gilbert V. Kibby, Randolph Center.
 Rebecca F. Kibby, B.S., Randolph Center.
 Allan G. Kidd, Northfield.
 Gertrude E. Kilgallen, B.S., Barton.

Leighton C. Kimball, Lowell, Mass.
 Emily B. King, Fairfax.
 Hallard B. Kinnison, Melrose, Mass.
 Kathryn R. Knickerbocker, Burlington.
 Eugenia K. Knieste, Proctor.
 Grace L. Knox, Easthampton, Mass.
 Helen E. Knox, A.B., Springfield, Mass.
 Edmond J. Kodys, Gardner, Mass.
 Florence D. Ladd, Chelsea.
 Mary E. Ladd, A.B., Burlington.
 Rose A. Laffey, B.S., Maderia, Ohio.
 Dolphine LaFleur, Middlebury.
 Irene LaFountain, B.S., Springfield.
 Frederick Lanahan, B.S., Rutland.
 Ninabelle Landon, Bristol.
 Adelaide Lanphere, Wells River.
 Arlene Larabee, West Burke.
 Bertha Larabee, B.S., Burlington.
 May Lavalley, A.B., Middlebury.
 Malcolm Lavelle, Burlington.
 L. Constance LaVigne, B.M., Winooksi.
 Anna Leahy, Fair Haven.
 Helen LeBaron, B.S., Burlington.
 Mary-Jane Lechnyr, Burlington.
 Mary Leddy, Burlington.
 Sister Mary Lemay, A.B., Rutland.
 Kathryn Leonard, Orwell.
 Wilfred Leslie, B.S., Orleans.
 Margaret Levarn, B.S., Burlington.
 Helene Leyden, Arlington, Mass.
 Isabelle Leyden, Arlington, Mass.
 Mildred Lidstone, B.S., Wallingford.
 Marion Linsenmeir, Burlington.
 Faith Linsley, A.B., Barre.
 Elenore Littel, Barre.
 Mrs. Orpha Littel, Barre.
 Pearl Littel, West Burke.
 Norma Littlefield, B.S., Waterbury.
 Minola Lockwood, P.H.B., Manchester Depot.
 Mary Loomis, Holyoke, Mass.
 Winnifred Loomis, A.B., Wolcott.
 Cleo Lovett, Bennington.
 Elizabeth Lovett, Middlebury.
 Elton Lovett, Nyack, N. Y.
 Leslie Lovett, Nyack, N. Y.
 Kathleen Lowell, New Haven.
 Eunice Lowery, Mendham, N. J.
 Florence Lowery, B.S., Mendham, N. J.
 C. Lucarini, Burlington.
 Alice Luce, Bethel.
 Robert Lull, Jr., Poultney.

J. Frances Lynch, Burlington.
 Richard Lynch, Burlington.
 Helen Lyon, B.A., Rochester.
 Katherine Lyon, Morrisville.
 Verle Lyon, Chelsea.
 Geraldine M. Lyston, Rutland.
 Rachel H. McAllister, Williamstown.
 Elizabeth McCambridge, Ticonderoga, N. Y.
 Madeline H. McCarthy, Charlestown, Mass.
 Miriam W. McClure, B.S., Wallingford.
 Sara H. McCormack, Middlebury.
 Bessie McDewitt, Proctor.
 John E. McGee, A.B., Shelburne.
 Alice R. McGinnis, St. Johnsbury.
 John R. McGrath, Montreal, Canada.
 Janet McIlvaine, Mt. Airy, Philadelphia, Pa.
 Esther E. McIntyre, Williamstown.
 Frances A. McKenzie, Burlington.
 Marguerite C. McKenzie, Hinesburg.
 Julia M. McLane, Underhill.
 John M. McLaughlin, Jr., M.A., Pittsburgh, Pa.
 Josephine H. McLouth, B.S., Shortsville, N. Y.
 Clifford F. McLure, B.S., Jericho Center.
 Paul C. McNamara, B.S., Winchester, N. H.
 Jessie E. McNulty, Ryegate.
 Marion L. MacDonald, St. Johnsbury.
 Frances M. Machia, Essex Junction.
 George M. MacKenzie, B.S., Townshend.
 Kenneth L. MacKenzie, B.S., Berlin, Conn.
 Marion McKee MacKenzie, Berlin, Conn.
 Margaret Jane MacMartin, Ed.B., Burlington.
 Mary S. MacPartlin, B.S., Winchester, Mass.
 Helen R. Maeck, Shelburne.
 John P. Magnier, W. Rutland.
 Alice R. Magoon, Richford.
 George Magrath, A.B., Whitinsville, Mass.
 Bertha Mahler, B.S., Flushing, L. I.
 Kathrynne Makela, Waukegan, Ill.
 Edwin T. Maloney, A.B., Jericho.
 Dorothy Mankowich, B.S., Waltham, Mass.
 Ruth H. Manley, N. Sheldon.
 Adda May Mann, Burlington.
 Lida M. Mann, B.S., Johnson.
 Joanna T. Manning, B.S., Danville.
 Philip E. Manning, B.S., Danville.
 Richard M. Marble, M.F., Woodstock.
 Ola G., Marckres, Craftsbury.
 Edith C. R. Marks, Morristown, N. J.

- Francis E. Marsceill, B.S., Hardwick.
 Daniel W. Marshall, PH.B., Waterbury Ctr.
 Eloise M. Marshall, Waterbury Center.
 Alyne McR. Martin, A.B., Louisville, Ky.
 H. Proctor Martin, A.B., Barre.
 Leora M. Martin, Jeffersonville.
 Marion A. Martin, A.B., Louisville, Ky.
 Ruth A. Martin, Bethel.
 Viola F. Martin, Alburg.
 Odino A. Martinetti, M.A., Barre.
 Paul R. Marvin, Lyon Mountain, N. Y.
 Josephine Masso, New Brunswick, N. J.
 Eleanor T. Maughan, Center Rutland.
 Ruth E. Meader, Bristol.
 Bertha L. Meisel, B.S., Monroe, Mich.
 Sister Mary Eucharist Menster, A.B., Rutland.
 Aldo Merusi, B.S., Waterbury.
 Ann P. Middlebrook, PH.B., Burlington.
 William T. Middlebrook, Northfield.
 Rose A. Miele, Ludlow.
 Harry P. Mileham, B.S., Burlington.
 Rena M. Miles, B.S., Quincy, Mass.
 Alma M. Miller, Wolcott.
 Dorothy E. Miller, Topsham.
 Eleanor G. Milligan, A.B., Wilmington.
 Ruth W. Millington, Burlington.
 Mrs. Ruth W. Millington, Burlington.
 William D. Miningham, Jr., Newark, N. J.
 Edgar A. Moberg, A.B., Worcester, Mass.
 Audrey R. Montague, Enosburg Falls.
 Rupert J. Montague, Enosburg Falls.
 John M. Moore, B.S., Barre.
 Doris E. Morcom, W. Hartford, Conn.
 Esther L. Morgan, Hardwick.
 Sydney S. Morgan, Burlington.
 Maurice B. Morrill, B.S., N. Bennington.
 Ruth E. Morris, Kingston, N. Y.
 Austin B. Morrison, Groton.
 Donald A. Morrison, S. Burlington.
 Freda M. Morrow, Charlotte.
 Chandler B. Mosher, B.S., McIndoes Falls.
 Dorothy D. Mott, B.S., Waltham, Mass.
 Dorothea V. Moynihan, W. Concord, Mass.
 William H. Muggleston, A.B., Deep River, Conn.
 Constance C. Mullinix, Germantown, Md.
 Gertrude F. Munson, A.B., Fort Edward, N. Y.
 Mary A. Murphy, Charlotte.
 Helen M. Murray, Burlington.
 John N. Murray, A.B., Randolph.
 Mrs. Alice H. Myers, Burlington.
 Eliza Myers, Gansevoort, N. Y.
 Roy E. Myhre, B.E., Milwaukee, Wis.
 Charles P. Nason, A.B., Bethel.
 Pearl A. Nelson, B.S., Waltham, Mass.
 Dorothy G. Nichols, Winooski.
 Stanley T. Nichols, B.S., Bristol.
 Charlotte D. Nicoll, Stamford, Conn.
 Ralph E. Noble, A.B., Barre.
 Mary B. Nye, Shelburne.
 Helene K. O'Brien, Winooski.
 Kathryn M. O'Connor, Kingston, N. Y.
 Marie P. Ohle, A.B., Pittsburgh, Pa.
 Mary A. Olmsted, Hartford, Conn.
 Harriett W. Osgood, Sutton.
 Mark K. O'Toole, Leominster, Mass.
 Margaret G. Palmer, B.S., Worcester, Mass.
 Mary G. Paquet, St. Albans.
 Leonel N. Paquette, B.S., Greensboro.
 Laurence G. Paquin, A.B., Orange, N. J.
 Charles L. Park, Jr., B.S., Thetford.
 Edna H. Park, B.S., Thetford.
 Athleen E. Parks, Castleton.
 Jeannette W. Parmenter, B.S.E., Eastondale, Mass.
 Geneva T. Patterson, Newport.
 Wilbert J. Patton, B.S., St. Albans.
 Vivian Peabody, Redwood Falls, Minn.
 Glennice R. Pearce, Lyndon Center.
 Lillian M. Pease, Hartford, Conn.
 Mary E. Pease, A.B., Burlington.
 Lynwood B. Peck, PH.B., Canaan.
 Evelyn Pedersen, Claremont, N. H.
 Ruth C. Pepper, Grevor, Wis.
 Ralph H. Percival, Burlington.
 Justus N. Perrin, A.B., Johnson.
 Elizabeth A. Peters, S. Hero.
 Marie D. Peters, M.A., Oak Park, Ill.
 Mildred G. Peters, St. Albans.
 William A. Peters, B.S., Vergennes.
 George W. Peterson, Ridgewood, N. J.
 Patrick A. Petrino, Burlington.
 Catherine E. Phelan, B.S.E., N. Andover, Mass.
 Charlotte E. Phelps, B.S., Essex Junction.
 Doris S. Phelps, Lunenburg.
 Alice Pickel, M.A., Kirkwood, Mo.
 Cedric E. Pierce, B.S., Barton.
 Dorothy Pierce, M.A., St. Johnsbury.
 James B. Pignona, Morristown, N. J.

- Clara E. Pitcher, Brooklyn, N. Y.
Emma G. Pitman, Laconia, N. H.
Helen V. Plympton, Fairfield, Conn.
Helen L. Poljacik, Proctor.
Ilene M. Porter, Richmond.
Archibald T. Post, B.S., Burlington.
Gordon L. Potter, Providence, R. I.
Harold C. Potter, B.S., Chester.
William L. Potter, Bridgeport, Conn.
Esther N. Powers, Franklin.
Josephine E. Powers, Mt. Vernon, N. Y.
Mildred A. Boden Powers, Orleans.
Raymond H. Presby, Essex Junction.
Maria P. Preston, Sharon.
Norma M. Preston, Burlington.
William S. Preston, Jr., Burlington.
Frances T. Prior, B.S., Winooski.
Grace M. Prochaska, Irvington, N. J.
Dolores Proctor, St. Albans.
Irene Prokop, Cheyenne, Wyo.
Elbertine P. Pudvar, Enosburg Falls.
N. Mearns Puffer, Burlington.
Ellery R. Purdy, Jr., Rutland.
Winifred S. Purinton, Vergennes.
Louise S. Rafferty, A.B., New London, Conn.
Isabel D. Ralston, Tuckakoe, N. Y.
Doris M. Ramsey, N. Stratford, N. H.
Ernest B. Rand, B.S., Stowe.
Robina M. Randall, Montgomery Center.
Mary L. Ream, Providence, R. I.
Thelma H. Reed, Shelburne.
Fratia M. Rees, Burlington.
Doris L. Regan, Montpelier.
Helen S. Reid, Mliford, Pa.
Jane E. Reid, Barre.
Geraldine M. Reidy, Manchester, N. H.
Ann G. Reilly, Center Rutland.
Helen H. Remington, B.S., Philadelphia, Pa.
Anna S. Reynolds, Burlington.
Dorothea E. Reynolds, M.A., Burlington.
Ramon D. Rich, Burlington.
Margaret A. Ritchie, B.S., Barre.
Robert A. Rivers, Burlington.
Alexandrina M. Robb, Hardwick.
Llewellyn Roberts, A.B., Wallingford.
M. Eluned Roberts, A.M., Fair Haven.
Dorothea Robinson, Burlington.
Jean L. Robinson, Burlington.
Mary H. Rock, Ludlow.
Arthur G. Rogers, B.S., Marblehead, Mass.
Lillian M. Rogers, Wells River.
Raymond R. Rogers, B.S., Bradford.
J. Robert Rooney, B.S., Circleville, Ohio.
Oreste R. Rosa, B.S., S. Ryegate.
Anna Ross, Pittsburgh, Pa.
Henry E. Ross, B.S., Arlington.
Dascomb P. Rowe, A.B., Waterbury.
Harry M. Rowe, B.S.A., Barnet.
N. Dean Rowe, B.S., Fairfax.
John R. Royer, Westfield, N. J.
Freda B. Rudd, Waterbury.
Mary F. Ruder, Schenectady, N. Y.
Louise M. Rugg, Essex Junction.
Permelia T. Ruggles, Bellows Falls.
Henry J. Rulfo, Barre.
Veda Rumney, Manchester Center.
Dorothy E. Russell, B.S., Canton, Pa.
Howard H. Russell, A.B., Hinesburg.
Reina G. Sabel, Plainville, Conn.
Reinhardt G. Sabel, B.S.C., Plainville, Conn.
Milfred C. Sabin, Rutland.
Donald W. Salisbury, Jr., Madison, N. J.
Alice P. Sargent, Montpelier.
Theodore D. Sargent, B.S., Chelsea.
Dorothy H. Sault, Randolph.
Priscilla Savage, A.B., Burlington.
Charles D. Sawyer, Ph.B., St. Albans.
Isabelle M. Sawyer, Barre.
Mildred N. Scanlon, B.S.E., Lowell, Mass.
Ethel G. Schermerhorn, Essex Junction.
Jessie K. Scheurenbrand, Brooklyn, N. Y.
Jean L. Schoppe, M.A., Canaan.
Rolfe W. Schoppe, B.S., Orleans.
Marion G. Scofield, Ridgefield, Conn.
A. Beryl Scott, Presque Isle, Me.
Katherine E. Scott, St. Johnsbury.
Muriel E. Scott, Vergennes.
Ada N. Scriven, Troy, N. Y.
Marie B. Shannon, A.B., Madison, N. J.
Pearl F. Shannon, Cambridge.
Mary E. Shea, Burlington.
Reta H. Sheldon, W. Pawlet.
Helen C. Sheridan, Rutland.
Herbert C. Sherwin, B.S., Newbury.
Rose C. Sherry, E. Rutherford, N. J.
Olive E. Shields, Grotton.
Florence M. Shirley, Brookline, Mass.
Jeanette A. Silverman, Salem, Mass.
Marion A. Skinner, Orleans.
Helen W. Skirm, Essex, Conn.
Thomas Skirm, Essex, Conn.

- Henry A. Slayton, Millburn, N. J.
 Alice E. Smith, Sharon.
 Allen G. Smith, A.B., N. Woodbury, Conn.
 E. Birdene Smith, Montpelier.
 Elva A. Smith, A.B., Randolph, Wis.
 Holland L. Smith, A.B., Burlington.
 John F. Smith, Essex Junction.
 Malinda E. Smith, Nyack, N. Y.
 Mary Nell Smith, Washington, D. C.
 Sidney L. Smith, Burlington.
 Richard F. Snape, PH.B., N. Adams, Mass.
 George H. Sole, M.A., Bennington.
 Zelda G. Sollitt, Bristol.
 Marion A. C. Somers, Douglastown, N. Y.
 Dorothy N. Somerville, McIndoe Falls.
 Rupert J. Spencer, B.S., Hyde Park.
 Richard Sprague, B.S., St. Johnsbury.
 Linnie A. Squires, E. Fairfield.
 Beth L. Stanhope, Sanford, Me.
 Anne P. Starbuck, Burlington.
 Freda B. Stearns, Orleans.
 Louise E. Steeves, A.B., Lincoln, Me.
 Hildegard T. Stenz, Paterson, N. J.
 William C. Sterling, A.B., Fairlee.
 C. Edgar Stevens, B.S., Wallingford.
 Leda B. Stevens, Barre.
 Pernette L. Stevenson, M.A., Brooklyn, N. Y.
 Raymond B. Steward, Eastport, Me.
 Olive M. Stickelman, B.S., Ozone Park, N. Y.
 George H. Stickney, E. Thetford.
 John J. Stigliano, N. Bergen, N. J.
 Frank O. Stiles, B.S., Swanton.
 Elwood M. Stoddard, Rockland, Mass.
 Kathrina H. Storms, Burlington.
 Mildred L. Stott, Island Pond.
 Richard H. Strain, Jr., New Bedford, Mass.
 Lewis J. Streeter, B.S., Westminster.
 Sr. St. Hilary Stringer, A.B., Rutland.
 Mary Loretta Strong, Boston, Mass.
 Edward B. Styles, Jr., Saugerties, N. Y.
 Doris C. Sullivan, Victory.
 Mary Sullivan, Pittsburgh.
 Thomas J. Sullivan, M.A., Burlington.
 Jesse E. Sunderland, B.S., Poultney.
 Paul N. Sutton, Burlington.
 K. Gladys Swain, Nashua, N. H.
 Dorothy M. Swett, Danby.
 Harry O. Swett, A.B., Danby.
 Charles C. Swift, Rutland.
 Ethel P. Symes, Wells River.
 Jean G. Szyman, Claremont, N. H.
 Chester M. Taft, B.S., Essex Junction.
 Raymond B. Talbert, B.S., Waterbury.
 Catherine J. Taylor, Richford.
 Frank M. Taylor, Brattleboro.
 Cora V. Teague, Fletcher.
 Loretta R. Teague, Fairfield.
 Elizabeth M. Thompson, B.S., Twin Mt., N. H.
 Grace C. Thompson, Sheakleyville, Pa.
 Marjorie B. Thompson, B.S., Arlington.
 Mary M. Thompson, Ticonderoga, N. Y.
 Norman W. Thompson, Bellows Falls.
 Millard S. Thomson, W. Hartford, Conn.
 Julia M. Thorpe, N. Ferrisburg.
 Mary E. Thurlow, S. Gardiner, Me.
 Yolana M. Tiber, B.S., Salisbury.
 Clifford W. Tilley, B.S., Essex Junction.
 Elsie A. Tinker, Burlington.
 Marion F. Towers, Essex Center.
 Laura B. Towne, Milton.
 Robert M. Towne, B.S., N. Troy.
 Carolyn C. Trask, E. Randolph.
 Joyce A. Tripp, B.ED., Willimansett, Mass.
 Madeleine M. Trudell, St. Albans.
 Ruth M. Tucker, Middlebury.
 Sister Agnes Marie Tully, A.B., Rutland.
 Katharine L. Tupper, Burlington.
 Lenora M. Turner, Bridport.
 Llewellyn L. Turner, B.S., Richford.
 Ralph E. Tuscany, Swanton.
 Dorothy M. Tuttle, Urbana, Ill.
 Barbara F. Twombly, Newport Center.
 Elwin H. Twombly, A.B., Concord.
 George R. Tyler, A.B., Bakersfield.
 Grace A. Tyndall, Morrisville.
 Joseph J. Urban, A.B., Fall River, Mass.
 Alden C. Utton, B.S., N. Troy.
 Ruth W. Vaine, E. Ryegate.
 Silvia H. Vance, Milton.
 Gerald B. R. Van Name, B.S., Burlington.
 Elizabeth E. Vaughan, A.B., Burlington.
 Barbara A. Viele, Wolcott.
 Mary A. Viens, Northfield.
 Ruth W. Wade, Lyndonville.
 Laura D. Wager, B.S., Waterbury.
 Emma M. Wait, Helena, N. Y.
 Laurence H. Walker, Charlotte Hall, Md.
 Mary Walker, Chelsea.
 Ida F. Wallace, Nashua, N. H.

- John W. Wallace, A.B., Waitsfield.
Russell S. Wallin, Burlington.
Louise M. Walls, B.S., Pepperell, Mass.
Esther L. Walter, Downers Grove, Ill.
Eunice E. Ward, Kennebunkport, Me.
Douglas C. Warner, Burlington.
Ildah R. Warner, St. Albans.
Anita I. Warren, Hardwick.
Katherine G. Warren, Eden.
Florence V. Waterman, P.H.B., Iowa City, Iowa.
Peter Waterman, Hartford, Conn.
Charles R. Watson, Jr., A.B., Salisbury, Conn.
Mabel V. Watson, Peacham.
Van C. Watton, Brooklyn, N. Y.
Emogene P. Watts, Waterbury, Center.
Ora L. Watts, Bristol.
H. Marian Way, P.H.B., Burlington.
Francis A. Weaver, A.B., Pittsford.
Grace A. Webb, Burlington.
Dorothy C. Webster, St. Albans.
Elizabeth W. Webster, Whiting.
Hezekiah G. Webster, Jr., B.S., Weedsport, N. Y.
Ruth Webster, Brookline, Mass.
Frank E. Wedge, Lakeside, Conn.
Cora E. Weiberg, Springfield, Ill.
Theresa O. Weiss, B.S., N. Bergen, N. J.
Doris M. Welch, A.B., St. Lambert, Canada.
Gordon G. Welch, B.S., Peacham.
Katherine E. Wells, Whiting.
Lynford L. Wells, P.H.B., Bakersfield.
Andrew C. Werner, B.S., Derby.
Lena A. West, B.S., Strafford.
Edward F. Wheeler, B.S., Bristol, Conn.
Harry O. Whipple, A.B., Montpelier.
Cordelia J. Whitcomb, Poultney.
Elsie R. White, Charlotte.
Maud V. White, Peru, N. Y.
Robert L. White, St. Albans.
Robert W. White, B.S., Proctor.
Thomas H. White, A.B., S. Hero.
Myrtle M. Whitehill, Orleans.
Roland W. Whiting, B.S., Johnson.
Courtland G. Whitney, B.S., Norwich, Conn.
Doris E. Whitney, St. Johnsbury Center.
Mrs. Mary W. Whitney, Northfield.
Mildred E. Whitney, P.H.B., Unionville, Conn.
Cyrus F. Wicker, Jr., Burlington.
Beatrice W. Wilber, A.B., Johnson.
Catherine A. Wilcox, Hudson, Mass.
Gladys T. Willard, Strafford.
Ruby E. Willard, S. Ryegate.
Cora A. Willett, Rutland.
Dorothy E. Willett, Rutland.
Kathleen M. Williams, Charlotte.
Miriam F. Williams, Brooklyn, Conn.
Pearl T. Williams, Waterbury.
Robert L. Williams, Burlington.
Roger H. Williams, New York City.
Louise Willis, B.S., Pittsford.
Fanny A. Wilson, Brooklyn, N. Y.
Harlie E. Wilson, Burlington.
Alice M. Wimet, P.H.B., Pittsford.
Effie E. Winn, B.S., Burlington.
Philip A. Wisell, Middlebury.
Priscilla K. Wogsland, Ft. Ethan Allen.
Fannie P. Wood, Burlington.
Roxanna M. Woodard, Hyde Park.
James G. Woodruff, A.B., Barre.
Katharine F. Worcester, A.B., Burlington.
Marjorie L. Worcester, S. Barre.
Esther Worthington, B.S., Morrisville.
Oliata F. Wright, Middlebury.
Gladys G. Wrisley, Waterbury.
Edith M. Wyman, P.H.B., Arlington.
George W. Young, B.E., Castleton.
Mable J. Young, Craftsbury Common.
Naomi W. Zieber, A.B., Philadelphia, Pa.
Theresa A. Zullo, Manchester Center.

STUDENTS IN RESIDENCE, 1939-1940

THE DEPARTMENT OF EDUCATION

BY CURRICULA:			
	MEN	WOMEN	TOTAL
Elementary Education	9	134	143
Music Education	8	13	21
Totals	17	147	164
BY CLASSES:			
	MEN	WOMEN	TOTAL
Seniors, 1940	2	31	33
Juniors, 1941	7	30	37
Sophomores, 1942	4	36	40
Freshmen, 1943	3	47	50
Unclassified	1	3	4
Totals	17	147	164

THE COLLEGE OF AGRICULTURE

BY CURRICULA:			
	MEN	WOMEN	TOTAL
Agriculture	93	0	93
Home Economics	0	136	136
Totals	93	136	229
BY CLASSES:			
	MEN	WOMEN	TOTAL
Seniors, 1940	21	18	39
Juniors, 1941	21	31	52
Sophomores, 1942	21	39	60
Freshmen, 1943	30	47	77
Unclassified	0	1	1
Totals	93	136	229

THE COLLEGE OF ENGINEERING

BY CURRICULA:			
	MEN	WOMEN	TOTAL
Civil Engineering	28	1	29
Electrical Engineering	37	0	37
Mechanical Engineering	71	0	71
Totals	136	1	137
BY CLASSES:			
	MEN	WOMEN	TOTAL
Seniors, 1940	19	0	19
Juniors, 1941	29	0	29
Sophomores, 1942	32	1	33
Freshmen, 1943	54	0	54
Unclassified	2	0	2
Totals	136	1	137

THE COLLEGE OF ARTS AND SCIENCES

BY CURRICULA:	MEN	WOMEN	TOTAL
Chemistry	25	0	25
Classical	6	22	28
Commerce and Economics, Business	90	5	95
Commerce and Economics, Commercial Teaching	0	21	21
Commerce and Economics, Secretarial	3	50	53
General Science	54	32	86
Pre-medical	156	17	173
Literary-Scientific	10	44	54
Secondary Education	34	18	52
Social Science	77	93	170
Special	14	12	26
Totals	469	314	783

BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1940	70	49	119
Juniors, 1941	91	61	152
Sophomores, 1942	112	90	202
Freshmen, 1943	184	106	290
Unclassified	12	8	20
Totals	469	314	783

THE GRADUATE DEPARTMENT

	MEN	WOMEN	TOTAL
Resident Graduate Students	31	12	43

THE COLLEGE OF MEDICINE

BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1940	34	2	36
Juniors, 1941	30	1	31
Sophomores, 1942	32	0	32
Freshmen, 1943	30	2	32
Totals	126	5	131

THE UNDERGRADUATE COLLEGES

SUMMARY BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1940	112	98	210
Juniors, 1941	148	122	270
Sophomores, 1942	169	166	335
Freshmen, 1943	271	200	471
Unclassified	15	12	27
Totals	715	598	1,313

SUMMARY OF RESIDENT ENROLLMENT, 1939-1940

THE UNDERGRADUATE COLLEGES	MEN	WOMEN	TOTAL
The Department of Education	17	147	164
The College of Agriculture	93	136	229
The College of Engineering	136	1	137
The College of Arts and Sciences	469	314	783
Total in Undergraduate Curricula	715	598	1,313
THE GRADUATE DEPARTMENT	31	12	43
Total in the Academic Colleges	746	610	1,356
THE COLLEGE OF MEDICINE	126	5	131
Total in the University	872	615	1,487
THE SUMMER SESSION, 1939	303	638	941
Total registrations	1,175	1,253	2,428
Less students counted twice	(61)	(30)	(91)
Total different students enrolled	1,114	1,223	2,337

GEOGRAPHICAL DISTRIBUTION

	MEN	WOMEN	TOTAL
Colorado	1	0	1
Connecticut	60	23	83
Delaware	1	0	1
Illinois	1	2	3
Indiana	1	0	1
Maine	7	3	10
Massachusetts	95	46	141
Michigan	0	1	1
Montana	1	0	1
Nebraska	0	1	1
New Hampshire	16	6	22
New Jersey	24	20	44
New York	83	75	158
Ohio	3	0	3
Pennsylvania	4	4	8
Rhode Island	4	0	4
Texas	1	0	1
VERMONT	565	431	996
Virginia	0	1	1
Canada	4	1	5
India	0	1	1
Panama	1	0	1
Totals	872	615	1,487

Degrees in Course, 1939

THE CURRICULUM IN ELEMENTARY EDUCATION

*BACHELORS OF EDUCATION

Evelyn Abbie Allyn, Island Pond.
Dorothy Helen Blaise, Burlington.
Mary Agnes Burke, Winooski.
Helen Doris Cook, Middlebury.
Lena Lucy Domenichini, North Adams, Mass.
Velma Kathleen Lawlor, 1938 (*Music Education*), Plainfield.
Elizabeth Marion Loop, Burlington.
Margaret Jane Johnston MacMartin, Burlington.
Louise Catherine Mann, Essex Junction.
Loretta Cora Maynard, Starksboro.
Shirley Williams Miller, *cum laude*, Putney.
Willard Grant Norton (*Music Education*), Richmond, Me.
Helen Rose Pattrell, Norwich.
Helen Elizabeth Squire, Waterbury.
Muriel Audra Thacher, N. Pomfret.
Celia Adella Thompson, Bristol.
Constance Marie-Ann Marguerite Trottier, Wilder.
Margaret Rose Tynan, Arlington.

THE COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE IN AGRICULTURE

Walter Edward Crandall, Essex Junction.
Harold Jerry Haynes, E. Poultney.
Chesley Peck Horton, Brandon.
Francis Clark Leonard, Orwell.
Charles William Livak, Rutland.
Francis Edgar Marsceill, Bristol.
Stanley Lintner Nichols, Burlington.
Robert Ellsworth Plumb, Springfield.
Raymond Richard Rogers, W. Glover.
Howard Henry Russell, Hinesburg.
Bernard Rutstein, Burlington.
Roland Benjamin Steele, 1938, Groton.
William Willard Stone, Springfield.
Russell Oscar Sunderland, 1938 (*post obitum*), St. Albans.
Robert Morrison Young, Starksboro.

* Diploma in four-year curriculum awarded by University of Vermont and State Agricultural College.

BACHELORS OF SCIENCE IN HOME ECONOMICS

Harriet Jean Anderson, E. Craftsbury.
Ruth Adele Bailey, Burlington.
Charlotte Annabel Beatty, Burlington.
Virginia Maxwell Bradway, Montpelier.
Lucille Clara Bristol, Burlington.
Miriam Priscilla Healy, W. Hartford, Conn.
Lois Ward Jackson, Brattleboro.
Thelma Ruth Packard, Burlington.
Estaleen Morgan Perkins, Burlington.
Flora Elizabeth Perley, Richford.
Dorothy Jenne Platt, Brooklyn, N. Y.
Martha Weller Rist, Burlington.
Mary Pauline Rowe, Barnet.
Margaret Orr Stanley, Enosburg Falls.
Betsey Alden Taylor, Hartford, Conn.
Rita Alvina Thabault, Winooski.
Hope Elizabeth Wheeler, Marshfield.
Alice Elizabeth Whitney, Springfield.

THE COLLEGE OF ENGINEERING**BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING**

Elwyn Dickinson Abell, St Albans.
Edward Milton Brown, Burlington.
David Lambert Clark, *cum laude*, Burlington.
Frederick Amadon Cross, Lancaster, N. H.
Willard Orlin Hale, Windsor.
Vincent Charles Juskiewicz, Northampton, Mass.
Francis Bernard Leary, Burlington.
Seymour Hill Robinson, Bridgewater.
Gordon Kendrick Young, Craftsbury Common.

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

Francis Hugh Canary, Rutland.
Bernard Wilson Harriman, Canaan.
Franklin Brown Mack, Dover, Del.
Clinton Alexander Renfrew, St. Johnsbury.
William Alfred Wheeler, Jr., Burlington.

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

Wendell Hayden Benway, *cum laude*, E. Berkshire.
Eugene John Cerutti, Plainfield.
Elbridge Potter Mansfield, Waterbury.
Louis Dale Pierce, St. Johnsbury.
William Angell Spelman, Jr., Rochelle Park, N. J.

THE COLLEGE OF ARTS AND SCIENCES

BACHELORS OF SCIENCE IN CHEMISTRY

Jack Lewis Cohen, Burlington.
Richard Harris Gale, Stowe.
Delevan Herbert Howe, Pittsfield, Mass.
Howard Lester Minckler, Grand Isle.
Winston Hugo Sharp, Newton Center, Mass.
Richard Wilson, Arlington, Mass.

BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

Gertrude Elizabeth Atkins, Colchester.
Burke Graham Brown, Jericho.
Lucy Buttles, Burlington.
John Alden Chase, Jr., Newton, Mass.
Janet Elizabeth Collins, 1938, Colchester.
Lawrence Howard DeShaw, 1938, Burlington.
Doris Marjorie Dopp, Burlington.
Nancy Elizabeth Gillingham, Woodstock.
Bayard Victor Grant, Brattleboro.
Elma Mary Herrick, Swanton.
John Conklin Husing, Lynbrook, N. Y.
Clarence Henry Lipsky, Great Neck, L. I., N. Y.
Mrs. Ruth Anderson Mills, Burlington.
Sarah Catherine Rigney, Lafayette, R. I.
Richard Lyman Seymour, St. Albans.
Mary Coleman Shakespeare, Rutland.
Margaret Elizabeth Smith, Pittsfield, Mass.
James Howell Starbuck, Burlington.
Webster Spencer Thompson, Burlington.
Frances Marie Whalen, Burlington.
Anita Lina Wiegand, Maplewood, N. J.
Ruth Sarah Wimett, Pittsford.

BACHELORS OF SCIENCE IN EDUCATION

Loren Otis Bishop, Shelburne.
Bertha Lydia Burkewitz, Irasburg.
Everett Paul Ryan Clifford, Barton.
Marion Harriet Coleman, *cum laude*, S. Londonderry.
Arthur Robert Datnoff, Burlington.
Everett Coyt Dimick, W. Hartford.
Madelyn Cecilia Donlon, Richford.
Ruth Marion Fellows, Burlington.
Norma Lois Fletcher, Orleans.
Doris Agnes Hasseltine, Bristol.
Erma Rita Mae Hurteau, Alburg.
Leona Nellie Kilburn, Collinsville, Conn.

Aaron Abraham Levine, W. Rutland.
T. Burke McHugh, Rutland.
Owen Meredith Parry, Poultney.
Charlotte Elma Phelps, Essex Junction.
Robert Ernest Pierce, Jacksonville.
Jack Horatio Press, 1937, Burlington.
Dorothea Robinson, Homestead, Fla.
Thais Barbara Shapland, St. Albans.
Rebecca Charlotte Shippee, W. Dover.
Arthur Parmelee Silvester, Brattleboro.
Leola Myra Stiles, *cum laude*, Middlebury.
Evelyn Martha Sweeney, St. Albans.
Margaret Inda Wheeler, Calais.

BACHELORS OF SCIENCE

Leonard Joseph Abbadessa, Vergennes.
Donald Louis Bashaw, Winooski.
Ruth Baxendale, Burlington.
Paul Norman Berry, Richmond.
Leonard Joseph Bisaccia, New Hartford, Conn.
Myer Harold Boyarsky, Burlington.
Frank Merlin Chereskin, Longmeadow, Mass.
Peter Demosthenes Corsones, Rutland.
Seymour Saul Cutler, *cum laude*, Brooklyn, N. Y.
Stilman George Davis, Jr., Nashua, N. H.
Robert Byron Dugan, Newport Center.
Frank Dayton Eddy, Burlington.
Richard Francis Farrell, Shelburne.
Robert John MacGregor Fyfe, Jr., 1938, Waban, Mass.
James Curtis Giddings, New Haven, Conn.
Walter Martin Glass, Burlington.
Robert Ignatius Gleason, Burlington.
Charles Elmer Harmon, Island Pond.
Frank Edward Harrigan, Jr., W. Hartford, Conn.
Reta Howe, Wilmington.
John Alexander Hunter, Jr., Dover, N. H.
Barbara Elizabeth Jones, Burlington.
Norman Kemler, Burlington.
John Edward Kennedy, Adams, Mass.
Avery Parsons King, St. Albans.
Robert Thornton Kinney, 1938, Hardwick.
Murray Newman Levin, Burlington.
Emery Othello Lewis, Montpelier.
Frank Lewis, *cum laude*, Brooklyn, N. Y.
Leon Robert Lezer, Websterville.
Robert Likovsky, *cum laude*, Burlington.
John Prentiss Lord, Brattleboro.
Lawrence Diskin McCrea, Burlington.
James Elmer McKee, Jr., Arlington.
Elmer Lyle Nicholson, Rochester

John Thompson Prior, St. Albans.
Harriette Louise Riddell, Williamstown.
Milton Rosenthal, Roxbury, Mass.
Alfred Schwartz, Brooklyn, N. Y.
Howard Julian Schwartz, Mineola, L. I., N. Y.
Kathryn Scott, Kingston, R. I.
Philip Brett Shoemaker, Essex, N. Y.
Clarence Raymond Simmons, Oakland, Me.
Harold Leonard Simmons, Jr., New Bedford, Mass.
Albert Francis Snay, Jr., White River Junction.
Myron Alden Solin, Chicopee, Mass.
Anne Louise Squire, *cum laude*, Waterbury.
George Arthur Tulin, Hartford, Conn.
Horatio Paul Wakefield, Burlington.
Genevieve Victoria Wesolowska, Shirley, Mass.
Charles Flagg Whitney, Jr., Burlington.

BACHELORS OF PHILOSOPHY

Dudley Barber Ball, Washington, D. C.
Joyce Audrey Bates, Pittsford.
Oscar Benton Bissell, Saxtons River.
Margaret Ann Bliss, W. Rutland.
Lucy Mary Brigham, Morrisville.
Ferne Louise Bristol, Brandon.
Lois Batchelder Brown, Burlington.
Roberta Olga Butterfield, *cum laude*, North Troy.
Harriet Almira Canedy, Jacksonsville.
Alice Cora Coapland, Craftsbury Common.
Jeanne Newman Dennis, *cum laude*, Morristown, N. J.
Martha Shepard Douglass, Burlington.
Phyllis Evelyn Foster, Merrimack, N. H.
Beryl Frank, Burlington.
Rosendo Adolfo Gomez, Barre.
William Gray Grieve, 1938, New York, N. Y.
Muriel Eva Hutchinson, Essex Junction.
Edward Jacobson, *cum laude*, Salisbury.
Henry Vincent Kogut, Bridgeport, Conn.
Rita Margaret Lambert, Holyoke, Mass.
Bernard Lisman, *cum laude*, Burlington.
Helen Louise Loudon, Minneapolis, Minn.
Richard Friedhold Morgner, Fitchburg, Mass.
Ruth Anne Palmer, Crestwood, N. Y.
Loren Joffre Pretty, Woodstock.
Edith Marian Rice, Cleveland Heights, Ohio.
Jane Harriet Riddell, Burlington.
Grace Marie Rinck, Ridgewood, N. J.
Edward Gabriel Sedlis, Brookline, Mass.
Edward Joseph Sennett, Poultney.
Janet Preston Sheltus, Swanton.
Anna Arthalene Smith, Burlington.

Richard Francis Snape, N. Adams, Mass.
David Jacob Steinberg, Roxbury, Mass.
Elizabeth Pawling Struthers, W. Wardsboro.
Annice Swertfeger, Berwyn, Ill.
Willard Alexander Wilcox, Jacksonville.
Mabel Elizabeth Wood, Montpelier.

BACHELORS OF ARTS

Mary Orton Fifield, *cum laude*, Newport.
Norma Madeleine Lessor, Burlington.
Mary Margaret Rasines, *cum laude*, Barre.
Priscilla Savage, Randolph.

ADVANCED DEGREES

MASTERS OF ARTS

EDUCATION

Janice Williams Carkin, A.B., Oberlin, 1937.
Thesis: Development of Interests and Attitudes in Physical Education.
Solyrn Donald Miner, A.B., Middlebury, 1920.
Thesis: A Study of the Results of a Continuous Testing Program in a Rural Supervisory District Aimed Particularly at the Improvement of Education.
Ruth May Gabler, B.S., Simmons, 1920.
Thesis: Changing Weather Conditions in the Connecticut Valley and Their Influence on the Behavior of Junior High School Pupils.

ENGLISH

Frank Alvin Cummings, B.S., Vermont, 1936.
Thesis: The Civil War in Historical Fiction, 1928-1938.
Arnold Perkins Drew, A.B., McGill, 1936.
Thesis: The Prose Character in England, 1608-1642—A Study in Literary Development.
Jean Longfellow Schoppe, A.B., Stanford, 1938.
Thesis: Ellen Glasgow: The Novelist.

FRENCH

Alexander Adrian Morrisette, PH.B., Vermont, 1935.
Thesis: Tendencies Toward Realism in French Literature of the Late Seventeenth and Early Eighteenth Centuries.

HISTORY

Clare Veronica Bergen, B.S., St. Lawrence, 1926.
Thesis: Peace or War.
Jason Erwin Newton, A.B., Dartmouth, 1937.
Thesis: Religion in Vermont, 1762-1850.

John Henry Martin, B.S., Middlebury, 1936.

Thesis: Diplomatic Relations Between Great Britain and Germany Before the World War.

Ruth Margery West, B.S., Vermont, 1934.

Thesis: Interstate Rivalries During the Revolution.

MASTERS OF SCIENCE

AGRICULTURAL ECONOMICS

Robert McCrillis Carter, Jr., A.B., University of Wisconsin, 1925.

Thesis: Land Utilization: The Farm Business and Farm Family in Agricultural Regions of Vermont.

AGRONOMY

Jack Edmund Doan, B.S.A., Ontario Agricultural College, 1937.

Thesis: Rapid Chemical Test Studies on Vermont Pasture Soils.

Werner Otto Mueller, B.S., Connecticut State, 1936.

Thesis: The Effect of Lime on the Nitrogen Content of Farm Fertilizer.

Clarence Vinton Plath, B.S., North Dakota Agricultural College, 1937.

Thesis: Soil Erosion Studies on Vermont Pastures.

BIO-CHEMISTRY

Albert Benson Meservey, B.S., Vermont, 1938.

Thesis: Utilization of Phosphorus by Pre-School Children.

BOTANY

Frances May Johnson, B.S., New Jersey College for Women, 1937.

Thesis: Origin and Development of the Chloroplasts in the Leaves of Some Members of the Genus *Solanum*.

CHEMISTRY

Leonard Passon Fox, A.B., New York University, 1937.

Thesis: The System Pyrrole-Pyrrolidine.

DAIRY HUSBANDRY

Frederick Madison Skelton, B.S.A., Ontario Agricultural College, 1937.

Thesis: A Study of the Factors Affecting the Body of Market Cream.

FORESTRY

Charles Wesley Barney, B.S., Syracuse, 1938.

Thesis: A Study of Root Development of Some Field Planted Conifers With Special Reference to Their Erosion Control Value.

Reuben Robert Zile, B.S., Cornell, 1920.

Thesis: The Development of the Roots of Planted White Pine (*Pinus strobus*).

MASTERS OF EDUCATION

- Mildred Elizabeth Akins, B.S., Vermont, 1932.
 Homer Butler Ashland, PH.B., Vermont, 1924.
 Louis William Batchelder, B.S., Vermont, 1914.
 Lyman Watts Bole, B.S., Cornell, 1919.
 William Hoyt Carter, A.B., Middlebury, 1910.
 Guy Edward Harrington, B.S., Boston University, 1927.
 Chester Pilgrim Hartford, B.S., Norwich, 1931.
 Francis Nathaniel Hinchey, PH.B., Yale, 1921.
 George Raymond Jenkins, B.S., Middlebury, 1922.
 Esther Appleton Knowlton, B.S., State Teachers College, Salem, Mass., 1927.
 Ralph Dewey Lund, B.S., Vermont, 1924.
 Burns Edward Martin, A.B., St. Michael's, 1925.
 Harry Nichols Montague, B.S., Vermont, 1928.
 William Allen Newton, B.S., Vermont, 1926.
 Earle Thurman Tracey, A.B., Middlebury, 1912.
 Lorana Adelaide Tremper, B.S., Wayne University, 1932.
 Frank Moses Varney, B.S., Vermont, 1917.

CIVIL ENGINEER

- Harold Robert Sanderson, B.S. in C.E., Vermont, 1935.
Thesis: A Review of the Winooski Valley Flood Control Project, Vermont.

COLLEGE OF MEDICINE

DOCTORS OF MEDICINE

- Joseph Aloysius Astone, Beacon, N. Y.
 Barbara Beardslee, Springfield.
 Paul Cohen, B.S., Woonsocket, R. I.
 James Everett Crane, B.S., Stamford, Conn.
 Richard Barre Davis, B.S., Readsboro.
 Amore Del Giudice, B.S., Waterbury.
 Raymond Carl Densmore, B.S., *cum laude*, Burlington.
 William Bernard Ferriter, B.S., Brattleboro.
 Herbert Edward Fitch, Jr., B.S., *cum laude*, Burlington.
 Thomas Gleason Fitzgerald, B.S., Albany, N. Y.
 John Carl Greenan, B.S., Berlin, N. H.
 James Garfield Grimes, Jr., Dumont, N. J.
 William Henry Heininger, Burlington.
 Clifton Dexter Howe, B.S., Burlington.
 Linus James Leavens, PH.B., *cum laude*, St. Albans.
 Julius Richard Levin, B.S., Burlington.
 Hyman Bernard Levine, B.S., Burlington.
 John Van Sicklen Maeck, B.S., Shelburne.
 Raymond George Mainer, New Britain, Conn.
 Roger Wendell Mann, A.B., *cum laude*, Waterville.
 Abraham Jack Moskovitz, B.S., Burlington.
 Belmont Stanley Musicant, B.S., Burlington.

Robert Williston Nevin, B.S., Edgartown, Mass.
Abraham Oppenheim, B.S., A.B., *cum laude*, New York, N. Y.
Platt Rugar Powell, B.S., Milton.
William Joseph Powers, B.S., Rutland.
Burnett Sheldon Rawson, Williston.
Albert Ira Robbins, B.S., Roxbury, Mass.
J. Frederick Rommel, Jr., B.S., Oneida, N. Y.
Richard Woodhull Rommel, B.S., Oneida, N. Y.
Charles Brush Rust, Burlington.
George Millar Sabin, Jr., B.S., Burlington.
Andrew Irving Ephriam Schildhaus, B.S., Shelburne.
Arthur Pierre Stebbins, B.S., S. Burlington.
Maurice James Walsh, B.S., Burlington.
Edwin Conrad Weinraub, B.S., New York, N. Y.
Bernard Weiss, B.S., Brooklyn, N. Y.
Ruth Mitchell White, B.S., Brattleboro.

DEGREES HONORIS CAUSA

DOCTOR OF EDUCATION

Evan Thomas.
Teacher and Clergyman, Professor Emeritus of Mathematics and Mechanics.

DOCTORS OF DIVINITY

Moses Richardson Lovell.
Clergyman, The Central Congregational Church, Brooklyn, N. Y.
ZeBarney Thorne Phillips.
Clergyman, The Church of the Epiphany, Washington; Chaplain, the United States Senate.

DOCTORS OF LAWS

Edmund Curtis Mower.
Author and Teacher, Professor Emeritus of Political Science.
Daniel Willard.
Railway Executive, President of the Baltimore and Ohio Railroad.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

SECOND LIEUTENANTS, INFANTRY RESERVE, UNITED STATES ARMY

Nathan Merrill Abbott, Burlington.
Bradley Phillip Bacon, Springfield.

Dudley Barber Ball, Randolph.
 Wendell Hayden Benway, E. Berkshire.
 Loren Otis Bishop, Shelburne.
 Oscar Benton Bissell, Saxtons River.
 Stilman George Davis, Jr., Nashua, N. H.
 Everett Coyt Dimick, W. Hartford.
 Charles Elmer Harmon, Island Pond.
 John Conklin Husing, Lynbrook, N. Y.
 Robert Ernest Pierce, Jacksonville.
 Jack Thompson Prior, St. Albans.
 Clinton Alexander Renfrew, St. Johnsbury.
 Philip Brett Shoemaker, Essex, N. Y.
 Webster Spencer Thompson, Burlington.
 Richard Wilson, Arlington, Mass.

HONOR LIST, 1938-1939

HONORS IN MEDICINE

CUM LAUDE

Herbert Edward Fitch, Jr., B.S.
 Abraham Oppenheim, B.S., A.B.
 Linus James Leavens, PH.B.

Raymond Carl Densmore, B.S.
 Roger Wendell Mann, A.B.

ACADEMIC HONORS

CUM LAUDE

Wendell Hayden Benway.
 Roberta Olga Butterfield.
 Marion Harriet Coleman.
 David Lambert Clark.
 Seymour Saul Cutler.
 Jeanne Newman Dennis.
 Mary Orton Fifield.
 Edward Jacobson.

Frank Lewis.
 Robert Likovsky.
 Bernard Lisman.
 Shirley Williams Miller.
 Mary Margaret Rasines.
 Anne Louise Squire.
 Leola Myra Stiles.

SPECIAL HONORS

ENGLISH

Jeanne Newman Dennis.
Thesis: The Development of the English Ballad.

PHYSICS

Frank Lewis.
Thesis: The Vertical Structure of the Atmosphere in Relation to Weather Forecasting.

POLITICAL SCIENCE

Edward Jacobson.

Thesis: Federal Centralization in the Field of Labor.

PRIZES

MEDICAL

CARBEE PRIZE

For greatest proficiency in the subject of Obstetrics.

Clifton Dexter Howe, B.S.

Platt Rugar Powell, B.S.

WOODBURY PRIZES IN MEDICINE

For greatest proficiency in Clinical Work in senior year.

Herbert Edward Fitch, Jr., B.S.

Albert Ira Robbins, B.S.

To sophomore having the highest standing for two years of Medical Work.

Deane Fremont Mosher, B.S.

ACADEMIC

THE HENRY EDMUND SEYMOUR PRIZE

Awarded for Original Research in Horticulture.

Charles William Livak, '39.

Thesis: Storage Studies of Bitter-pit of Apples.

THE GEORGE H. WALKER DAIRY PRIZE

For Conspicuous Merit in Dairy Husbandry Studies and for Character.

Charles William Livak, '39.

THE ELWIN L. INGALLS 4-H PRIZE

In honor of Elwin L. Ingalls, for Outstanding Merit in 4-H Club work, Character and Scholarship.

Howard Henry Russell, '39.

THE THOMAS BRADLEE PRIZE

In Memory of Thomas Bradlee, for High Scholarship and Character.

Laura Corbin Dustan, '40.

THE A. ATWATER KENT PRIZE

Given in Electrical Engineering for Progress in Judgment, Development of Personality, and Promise of Success.

David Lambert Clark, '39.

THE EDMUND F. LITTLE CUP

Given for Excellence in Mechanic Arts.

Francis Hugh Canary, '39.

THE PHELPS PRIZE IN CIVIL ENGINEERING

Given for Conspicuous Merit in Professional Studies.

Wendell Hayden Benway, '39.

Louis Dale Pierce, '39.

THE BENEDICT ESSAY PRIZE

Awarded for the best essay on International Arbitration.

Beryl Frank, '39.

THE BENNETT ESSAY PRIZE

Awarded for the best essay on the Principles of Free Government.

Bernard Lisman, '39.

THE ALLIANCE FRANCAISE PRIZES

First Prize: Jean Malot Evans, '42.

Second Prize: Elvira Frances Palermo, '40.

THE UNIVERSITY OF VERMONT FRENCH FELLOWSHIP

Norma Madeleine Lessor, '39.

THE GERMAN LITERARY PRIZE

Awarded by the Goethe Lodge of Burlington for the best essay on a German Literary Subject.

Ethyle Renee Wolfe, '40.

THE ENGLISH PRIZE

Jeanne Newman Dennis, '39.

THE FRED T. KIDDER MEDAL

Awarded for Character, Leadership and Scholarship.

Bernard Lisman, '39.

THE RUSSELL O. SUNDERLAND MEMORIAL TROPHY

Awarded for qualities of Character, Leadership and Persistence in overcoming obstacles—traits outstanding in the life of Russell O. Sunderland, '38.

Howard Lester Minckler, '39.

THE WASSON ATHLETIC PRIZE

In Memory of Dr. Watson L. Wasson, '01, for Scholarship and Athletic Attainment.

Elmer Lyle Nicholson '39.

THE ATHLETIC COUNCIL MANAGERIAL PRIZE

Awarded to that Major Sport Manager deemed most proficient.

Howard Lester Minckler, '39.

EDWARD PAGE BUTLER DEBATING PRIZES

Awarded for Proficiency in Debate.

First: Gertrude Isabel Johnston, '40.

Second: Eleanor Brody, '40.

Third: Bertha Lydia Burkewitz, '39.

ROBERT ASHTON LAWRENCE DEBATING PRIZES

Awarded for Proficiency in Debate.

First: Bernard Lisman, '39.

Second: Walter Martin Glass, '39.

Third: Arnold Herman Becker, '41.

KIRBY FLOWER SMITH LATIN PRIZE

Margaret Mary Beattie, '41.

THE MCCULLOUGH CUP

Awarded to the Alumni Class having the highest percentage of living members registered for Commencement.

Awarded to the Class of 1873.

DARWIN P. KINGSLEY PRIZES FOR ELOCUTION, 1938-1939

First: Julius George Cohen, '42.

Second: William Wolfe Musicant, '42.

Third: Abraham Swartz, '42.

THE HOWARD FRESHMAN PRIZES

Isabelle Margaret Carter.

Jean Malot Evans.

Jane Robinson Judd.

Chester William Hutchinson Partridge.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

HONOR GRADUATE

Wendell Hayden Benway, '39.

THE LOYAL LEGION SABER

Webster Spencer Thompson, '39.

SPEAKER ON FOUNDER'S DAY

(May 1, 1939)

John Dewey, '79, New York, N. Y.

HIGH STANDING LIST

BASED ON GRADES OF JUNE, 1939

GROUP A

(No grades below A)

Class of 1942

Barbara R. Bishop, *Sec*
 Isabelle M. Carter, *GS*
 J. M. Evans, *SS*
 Jane R. Judd, *LS*
 C. W. H. Partridge, *Chem*
 Hester D. Rice, *HE*
 W. W. Suojanen, *Bus*

Class of 1941

Margaret M. Beattie, *Cl*
 D. V. Collins, *Chem*
 Evelyn M. Fuller, *HE*
 Jessie Swann, *LS*

GROUP B

(No grades below B)

Class of 1942

C. M. Abbott, *LS*
 Geraldine P. Annis, *LS*
 Lillian E. Aronson, *Sec*
 G. F. Babits, *Ch*
 F. Bardossi, *SS*
 Shirley I. Barney, *ElEd*
 Mildred E. Belville, *ElEd*
 Leicia A. Black, *Sec**
 R. L. Carlson, *Ag*
 Elizabeth B. Chaffee, *LS*
 Ethelyn L. Chaffee, *SS*
 D. L. Clark, *EE*
 Lucille V. Clark, *HE*
 R. L. Clark, *Ch*
 D. P. Dana, *Ag*
 Rita Davidson, *SS*
 Catherine-Jean Dewart, *LS*
 Marguerite J. Doheny, *Sec*
 Harriet P. Dustan, *PM*
 Flora E. Fifield, *LS**
 Myrna G. French, *LS*
 M. Lorraine Gannon, *GS*

Class of 1941

G. H. Bailey, *Ag*
 Martha L. Baker, *Cl**
 A. H. Becker, *PM*
 Olive M. Burrington, *SS*
 A. J. Caldwell, *Bus*
 H. G. Carlson, *EE*
 Hester N. Carver, *HE*
 Ruth M. Conner, *ElEd*
 T. J. Crimmin, Jr., *Bus*
 Lois A. Dallenbach, *Sp*
 G. B. Dunn, Jr., *EE*
 S. F. Dwinell, *PM*
 J. J. Fahey, *SS*
 Madeline R. Greaves, *HE*
 Laura R. Hawley, *HE*
 Nancy R. Jones, *HE*
 Dorothy P. Kester, *Sec*
 Harriet L. Kieslich, *Sec*
 Olga Kish, *CT*
 Kathleen R. LeBaron, *HE*
 H. F. Lowe, *SS*
 W. R. Lyman, *Ch*

* Less than 15 hours.

Class of 1942

Gladys M. Gorton, *SEd*
 Shirley A. Hall, *HE*
 Nora E. Hill, *MusEd*
 Phyllis R. Ingram, *PM*
 C. Itzkowitz, *PM*
 Doris O. Jareckie, *SS*
 T. Kambour, Jr., *Ag*
 Joyce Kenyon, *HE*
 Gail F. Klinger, *HE*
 Phyllis J. Lake, *SS*
 R. H. McEwen, III, *Bus*
 Pearl Marvin, *HE*
 W. W. Musicant, *PM*
 Gloria Oling, *SS*
 Hilda L. Paquette, *HE*
 Harriet A. Parker, *SEd*
 Judith Perry, *LS*
 J. H. Pratt, Jr., *Ag*
 M. L. Resnick, *PM*
 S. Savin, *GS*
 J. D. Sawyer, *PM*
 L. W. Shores, *LS**
 G. H. Stickney, *CE*
 G. C. Streeter, *Ag*
 J. M. Thomas, *Ag*
 Sarah A. Wilson, *SS*
 R. Wolfe, *SS*
 Beatrice C. Wright, *HE*

Class of 1941

D. W. Maley, *SEd*
 Elisabeth P. Marshall, *Sec*
 Maywood A. Metcalf, *LS*
 Irene L. Newton, *GS*
 G. I. Palmer, *CE*
 E. F. Paquette, *Ag*
 M. C. Phillips, *EE*
 Betty Pike, *ElEd*
 L. A. Pion, *Sp**
 M. P. Reiser, *PM*
 J. A. Root, *CE*
 H. J. Rulfo, *PM*
 D. W. Thayer, *SS**
 Geraldine M. Wilcox, *Sec*
 H. S. Willson, *CE*
 W. E. Young, *ME*

BASED ON GRADES OF JANUARY, 1940

GROUP A

(No grades below A—)

Class of 1943

(No grades below A)

L. M. Jones, *GS*
 R. Marshall, *EE*
 W. A. Pierce, *LS*

GROUP B

(No grades below B)

Class of 1943

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 J. Alpert, *PM*
 Helena Anderson, *HE*

Class of 1942

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 Jane R. Judd, *LS**
 C. W. H. Partridge, *Ch*

Class of 1942

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 Mildred E. Belville, *ElEd*
 Leicia A. Black, *Sec*

* Less than 15 hours.

Class of 1943

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 Theresa C. Coderre, *Sec*
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* Less than 15 hours.

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This organization was formed May 1, 1920.

The object of the Council is to advance the interest, influence and efficiency of the University of Vermont; to strengthen the relations between the alumni and the University; to encourage sufficient class organization; to keep the public informed in regard to the University; to keep before the various preparatory schools of the country the advantages of the University of Vermont as an educational institution; to aid and assist in the establishment of alumni associations and promote their interests, to report from time to time to the Board of Trustees of the University any facts and recommendations by the Council deemed material or for the interests of the University; to act as a medium that may make known the ideas of the alumni to the University, and wishes of the University to the alumni; to keep in touch with the undergraduate activities and to act in an advisory capacity through the Executive Committee and office of Alumni Council to such of the undergraduates as may desire to consult it in reference to their occupations after graduation and for that purpose to keep in as close a touch as possible with the demands of the country's professional, business and industrial needs and to supervise and conduct the nomination and election of Alumni Trustees of the University of Vermont.

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