

Volume XXXVI
Number 3



BULLETIN OF THE
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
BURLINGTON VERMONT

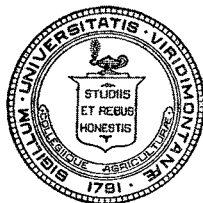


CATALOGUE NUMBER

1938-1939

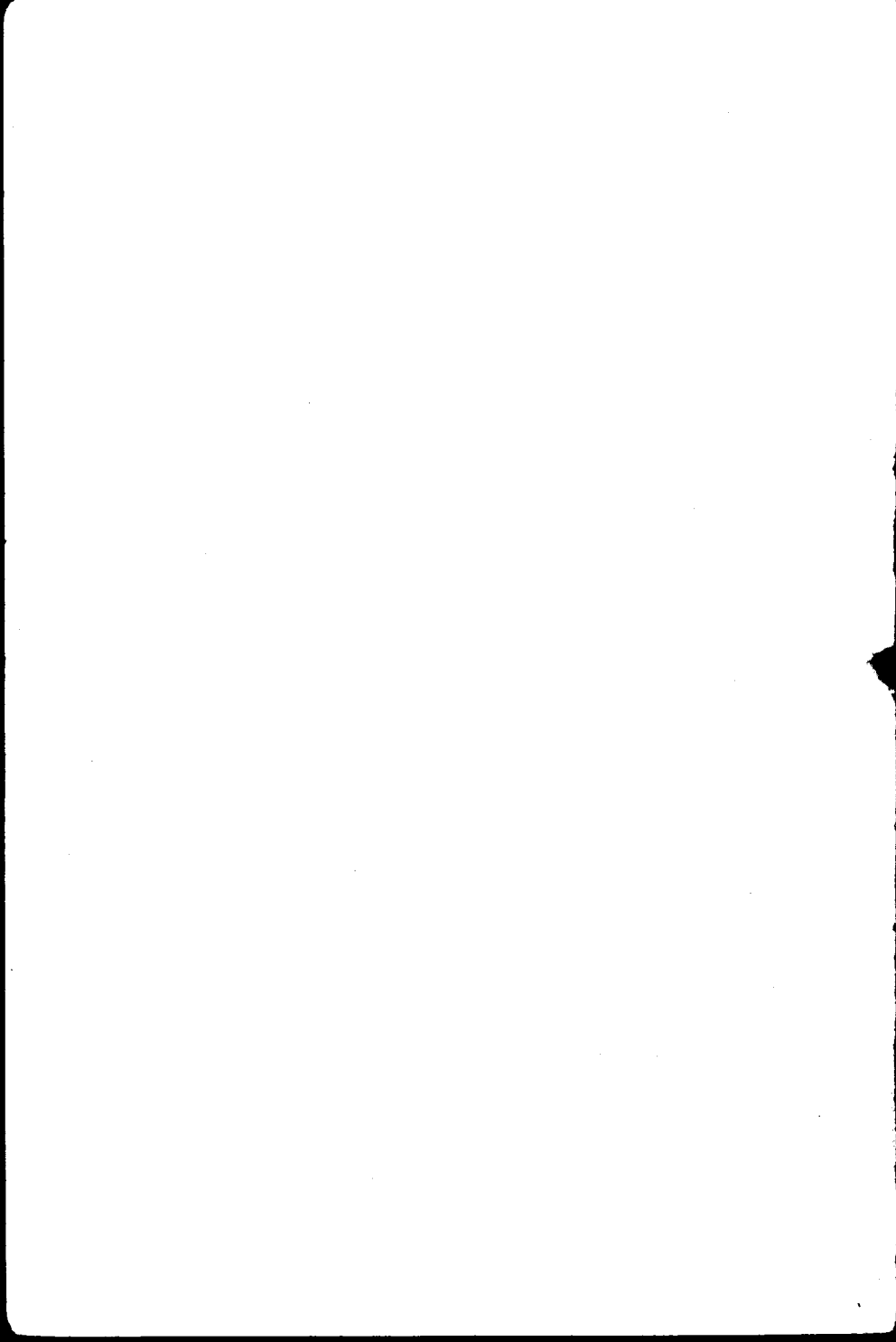
WITH ANNOUNCEMENTS
FOR 1939-1940

❧ BULLETIN OF THE ❧
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
BURLINGTON - - - - - VERMONT
VOLUME XXXVI — MARCH, 1939 — NUMBER 3



THE CATALOGUE 1938-1939
ANNOUNCEMENTS 1939-1940

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Calendar

1939

JANUARY

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APRIL

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UNIVERSITY CALENDAR

1939

- Monday, January 30, 7.30 a.m. Class Work of the Second Semester begins.
- Saturday, February 18 Kake Walk.
- Friday, March 17, and
Saturday, March 18 Educational Conference with Vermont Teachers.
- Saturday, April 1, 11.50 a.m. to
Monday, April 10, 7.30 a.m. Easter Recess.
- Monday, May 1 Founder's Day.
- Tuesday, May 30 Memorial Day.
- Wednesday, May 24, to
Tuesday, June 6 Final Examinations in the Academic Colleges.
- Monday, May 29, to
Thursday, June 8 Final Examinations in the College of Medicine.
- Wednesday, June 7, to
Friday, June 9 Entrance Examinations.
- Friday, June 9, to
Monday, June 12 The Events of the Annual Commencement Week, the 148th year of the University.
- Monday, June 26, to
Saturday, July 1 State 4-H Club Week.
- Wednesday, July 5, to
Wednesday, August 16 The 1939 Summer Session.

The Academic Year, 1939-1940

- Friday, September 8, to
Monday, September 11 Entrance Examinations.
- Tuesday, September 12, 9.00 a.m. Freshman Registration and Enrollment.
- Wednesday, September 13 Opening University Convocation, President's Address, Registration and Enrollment of Former Students. Freshman Preliminary Conferences.
- Thursday, September 14 Preliminary Instruction for Freshmen.
- Friday, September 15, 7.30 a.m. Class Work of the First Semester begins.

OFFICERS OF INSTRUCTION

Deans and Professors

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

- GUY WINFRED BAILEY, A.B., LL.D. 203 S. Willard St.
President of the University
- JOSEPH LAWRENCE HILLS, B.S., Sc.D. 59 N. Prospect St.
Dean of the College of Agriculture
- ELIJAH SWIFT, Ph.D. 415 S. Willard St.
Dean of the College of Arts and Sciences and Williams Professor of Mathematics
- GEORGE FREDERICK ECKHARD, B.S., C.E. 178 Summit St.
Dean of the College of Engineering and Professor of Structural Engineering
- *SAMUEL FRANKLIN EMERSON, Ph.D., L.H.D.
Professor Emeritus of History
- FREDERICK TUPPER, Ph.D., L.H.D., Litt.D. 179 N. Prospect St.
Professor of the English Language and Literature
- JOHN BROOKS WHEELER, A.B., Sc.D., M.D., F.A.C.S. 210 Pearl St.
Professor Emeritus of Surgery
- ELBRIDGE CHURCHILL JACOBS, A.M., F.G.S.A. 146 Williams St.
Professor of Geology and Mineralogy and Curator of the Geological and Mineralogical Collections. In charge of the Seismograph Station
- †ARTHUR BECKWITH MYRICK, Ph.D. 146 Summit St.
Professor of Romance Languages and Literatures
- BERTHA MARY TERRILL, A.M. 205 S. Prospect St.
Professor of Home Economics
- ASA RUSSELL GIFFORD, A.M. 119 N. Prospect St.
Professor of Intellectual and Moral Philosophy
- MARSHALL BAXTER CUMMINGS, Ph.D. 230 Loomis St.
Professor of Horticulture and Secretary of the Faculty of the College of Agriculture
- BENJAMIN FRANKLIN LUTMAN, Ph.D. 111 N. Prospect St.
Professor of Plant Pathology
- GEORGE PLUMER BURNS, Ph.D. 453 S. Willard St.
Assistant Dean of the College of Agriculture and Professor of Botany
- CLARENCE HENRY BEECHER, M.D., F.A.C.P. 151 Robinson Pkwy.
Professor of Medicine

* Deceased April 5, 1939.

† Absent on leave.

- THOMAS STEPHEN BROWN, M.D. 419 S. Prospect St.
Thayer Professor of Neuro-Anatomy and Superintendent of the Mary Fletcher Hospital
- FRED KINNEY JACKSON, A.B., M.D. 75 S. Prospect St.
Professor of Physiology in the College of Medicine
- DAVID MARVIN, M.D. Essex Junction
Professor Emeritus of Pharmacology
- HENRY FARNHAM PERKINS, Ph.D. 205 S. Prospect St.
Professor of Zoology; Director of the Robert Hull Fleming Museum
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Professor of Economics
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Professor Emeritus of Mathematics and Mechanics in the College of Engineering
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Pomeroy Professor of Chemistry
- *PATRICK EUGENE McSWEENEY, M.S., M.D., F.A.C.S.
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Professor of Physiological Chemistry and Toxicology in the College of Medicine
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Professor of Animal and Dairy Husbandry
- †FRED DONALD CARPENTER, Ph.D.
Professor of the German Language and Literature
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Professor of Hygiene and Preventive Medicine
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Professor of Political Science
- BENNETT COOPER DOUGLASS, Ph.D. 122 Summit St.
Professor of Education and Director of the Summer Session
- ERNEST HIRAM BUTTLES, A.B., M.D. 457 S. Willard St.
Professor of Pathology and Bacteriology; Secretary of the Faculty of the College of Medicine
- ARTHUR DEXTER BUTTERFIELD, M.S., A.M., D.Eng. 25 Colchester Ave.
Professor of Mathematics and Geodesy
- LYMAN ALLEN, A.B., M.S., M.D., F.A.C.S. 278 Main St.
Professor of Surgery
- HOWARD GORDON BENNETT, A.M. 448 S. Prospect St.
Professor of Music

* Deceased September 2, 1938.

† Absent on leave.

Officers of Instruction

13

JAMES CHARLES O'NEIL, B.S., M.D.	Waterbury
Professor of Psychiatry	
LESTER MARSH PRINDLE, Ph.D.	380 Maple St.
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MASON HERBERT CAMPBELL, Ph.D.	32 Wilson St.
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PAUL DEMUND EVANS, Ph.D.	261 S. Prospect St.
Professor of History	
EUGENE FREDERICK TRAUB, M.D.	140 E. 54th St., New York, N. Y.
Professor of Dermatology	
GEORGE MILLAR SABIN, B.S., M.D., F.A.C.S.	217 S. Union St.
Professor of Clinical Surgery	
*PAUL ROBERT MILLER, M.S.	
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LOUIS BLACKMER PUFFER, C.E.	176 Loomis St.
Professor of Civil Engineering	
RALPH MAYNARD HOLMES, Ph.D.	140 Ledge Rd.
Professor of Physics	
EDD RUTHVEN MCKEE, M.S., E.E.	42 Henderson Ter.
Professor of Electrical Engineering	
MERRILL ELLICOTT SPALDING, B.S.	216 S. Willard St.
Colonel, Infantry, U. S. Army	
Professor of Military Science and Tactics	
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Lieut.-Col., Medical Corps, U. S. Army	
Professor of Medico-Military Science	
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Professor of Histology and Embryology	
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Professor of Ophthalmology, Oto-Laryngology and Rhinology	
FRANK ROBERT OBER, M.D., F.A.C.S.	234 Marlborough St.
Professor of Orthopedic Surgery	Boston, Mass.
HERBERT ASHLEY DUFEE, A.B., M.D., F.A.C.S.	347 S. Union St.
Professor of Obstetrics and Assistant Professor of Gynecology	
ARTHUR BRADLEY SOULE, JR., A.B., M.D.	144 Ledge Rd.
Professor of Radiology	

* Absent on leave.

JAMES NORMAN PETERSEN, B.S., M.D., C.M. Acting Professor of Neurology	3801 University St. Montreal, Canada
DEWITT McCLURE TAYLOR, B.S. Professor of Mechanical Engineering	61 S. Willard St.
OLIVER NEWELL EASTMAN, M.D., F.A.C.S. Professor of Gynecology and Associate Professor of Obstetrics	170 Spruce St.
JOHN TRUMBULL METCALF, Ph.D. Professor of Psychology	35 Kingsland Ter.
HAROLD BARNARD PIERCE, Ph.D. Professor of Physiological Chemistry	360 College St.

Associate Professors

WELLINGTON ESTEY AIKEN, A.M. Associate Professor of English and Secretary of the University Senate	52 N. Prospect St.
ROY ORVILLE BUCHANAN, B.S. Associate Professor of Electrical Engineering	Hillcrest Rd.
JOHN BELLOWS DeFOREST, Ph.D. Associate Professor of Romance Languages	327 S. Prospect St.
DANIEL BERNARD CARROLL, Ph.D. Associate Professor of Political Science	89 S. Willard St.
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JULIAN IRA LINDSAY, A.M. Associate Professor of English	292 S. Prospect St.
GEORGE VINCENT KIDDER, A.B. (Oxon.), Ph.D. Associate Professor of Greek and Latin; Secretary of the Faculty of the College of Arts and Sciences	206 Summit St.
ALFRED GRETHNER BUEHLER, Ph.D. Associate Professor of Economics	91 S. Willard St.
KENNETH JOSEPH SHELDON, A.M. Associate Professor of Agricultural Education	24½ 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.

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PAUL KENDRICK FRENCH, Ph.B., M.D., F.A.C.P. 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	45 University Ter.
WILLIAM GRAVES TOWNSEND, B.S., M.D., F.A.C.S. 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.
ERNEST OLIVER HERREID, Ph.D. Associate Professor of Dairy Manufacturing	49 University Ter.
RAY GILBERT DAGGS, Ph.D. Associate Professor of Physiology in the College of Medicine	29 Adsit Ct.
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, M.S. Associate Professor of Economics	301 College St.

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.
*CATHERINE FRANCES NULTY, Ed.M. Assistant Professor of Economics (Secretarial)	
GENNETTE CLAIRE DAVIS, A.M. Assistant Professor of Economics (Secretarial)	151 S. Prospect St.

* Absent on leave.

HOWARD GUY MILLINGTON, C.E.	224 Plattsburg Ave.
Assistant Professor of Mathematics in the College of Engineering	
ROBERT LELAND MAYNARD, M.D., F.A.C.S.	289 College St.
Assistant Professor of Surgery and Instructor in Orthopedic Surgery	
FLORENCE EMILY BAILEY, M.S.	54 S. Willard St.
Assistant Professor of Home Economics	
FRED WALTER HOUSEHOLDER, A.M.	15 Wilson St.
Assistant Professor of Mathematics	
KATHRINA HABBERTON STORMS, A.B.	61 N. Prospect St.
Assistant Professor of English	
SARA MOULTHROP HOLBROOK, Pd.B., A.M.	205 S. Prospect St.
Assistant Professor of Education	
JAMES EUGENE POOLEY, A.M.	108 Shelburne St.
Assistant Professor of Greek and Latin	
GRACE BURWASH, A.M.	151 S. Prospect St.
Assistant Professor of Home Economics	
BENJAMIN FRANKLIN LADD, A.M.	19 Cliff St.
Assistant Professor of German	
ALIDA BEATRICE FAIRBANKS, A.M.	249 Pearl St.
Assistant Professor of Home Economics	
GENO BLAISE LUCARINI, B.S.	324 Main St.
Assistant Professor of Mechanical Engineering	
EDWARD JAMES ROGERS, M.D.	Pittsford
Assistant Professor of Clinical Medicine	
ADOLPHUS DUNCAN ROOD, M.D.	146 Chestnut St.
Assistant Professor of Clinical Medicine	
Springfield, Mass.	
*WENDELL EVERETT JAMES, M.S., M.D.	
Assistant Professor of Bacteriology and Clinical Pathology	
LLOYD ABRAM WOODWARD, M.S.	82 Henry St.
Assistant Professor of Physics	
LEON W. DEAN, A.B.	308 S. Prospect St.
Assistant Professor of English	
WALFORD TUPPER REES, M.D., F.A.C.S.	223 Pearl St.
Assistant Professor of Surgery	
BENJAMIN DYER ADAMS, M.D., F.A.C.S.	207 S. Union St.
Assistant Professor of Surgery	
RAYMOND AVERY HALL, B.D., A.M.	Charlotte
Assistant Professor of English	
GEORGE HERBERT NICHOLSON, A.M.	59 Mansfield Ave.
Assistant Professor of Mathematics	

* Absent on leave.

Officers of Instruction

17

CHARLES PERKINS MOAT, B.S. Assistant Professor of Hygiene	487 S. Willard St.
*JOHN ALVIN NEULANDER, M.S. Assistant Professor of Dairy Husbandry	
ROLAND FREEMAN DOANE, A.M. Assistant Professor of Romance Languages	4 Cedar Lane
*BENJAMIN BOOTH WAINWRIGHT, A.M. Assistant Professor of English	
LYMAN SMITH ROWELL, M.S. Assistant Professor of Zoology	38 Cliff St.
CLARENCE ALDEN BONNER, M.D. Assistant Professor of Psychiatry	Danvers State Hospital Hathorne, Mass.
HERBERT EVERETT PUTNAM, Ph.D. Assistant Professor of History	187 Loomis St.
CHESTER ALBERT NEWHALL, A.B., M.D. Assistant Professor of Anatomy	72 Colchester Ave.
MYRON ELLIS WITHAM, C.E. Assistant Professor of Mathematics	41 S. Prospect St.
ELIZABETH VANDERPOOL COLBURN, A.M. Assistant Professor of Education	308 Pearl St.
LAURENCE FORREST SHOREY, M.S. Assistant Professor of Electrical Engineering	60 University Ter.
CHARLES GEORGE DOLL, A.M. Assistant Professor of Geology and Mineralogy; Assistant Curator of the Geological Collections	170 N. Prospect St.
MILTON HARRIS ALDRICH, M.S.E. Assistant Professor of Civil Engineering	88 S. Willard St.
*WILLIAM HUDSON BEHNEY, M.S. Assistant Professor of Zoology	
EDGAR ELWYN LINEKEN, Ph.D. Assistant Professor of Chemistry	5 Handy Ct.
MELVIN HENRY LAATSCH, A.M. Assistant Professor of Political Science	266 S. Union St.
PHILLIPS DEAN CARLETON, A.M. Assistant Professor of English	236 S. Prospect St.
ARCHIBALD THOMSON POST, B.S. Assistant Professor of Physical Education for Men	18 Weston St.
WILLARD BISSELL POPE, Ph.D. Assistant Professor of English	253 S. Union St.

* Deceased October 27, 1938.

- KARL CORNELIUS McMAHON, B.S., M.D. 381 S. Union St.
Assistant Professor of Ophthalmology and Clinical Instructor in Oto-Laryngology
and Rhinology
- ERNEST HARTMAN, Sc.D. 45 Robinson Pkwy.
Assistant Professor of Bacteriology and Clinical Pathology
- ARTHUR LEO LARNER, M.D. 337 College St.
Assistant Professor of Oto-Laryngology and Rhinology, and Clinical Instructor
in Ophthalmology
- EDWARD DOUGLAS McSWEENEY, A.B., M.D., F.A.C.S. 28 S. Willard St.
Assistant Professor of Gynecology
- JOHN PHILIP SABO, A.M. 96 Summit St.
Assistant Professor of Physical Education for Men
- ALFRED CARLETON ANDREWS, Ph.D. 258 S. Willard St.
Assistant Professor of Latin
- PAUL WILLIAM BUTTERFIELD, A.B., M.D. 37 N. Prospect St.
Assistant Professor of Pathology
- REX MADISON COLLIER, Ph.D. 14 Handy Ct.
Assistant Professor of Psychology
- THOMAS LUDLOW FERENBAUGH, A.B., M.D., F.A.C.S. Fort Ethan Allen
Colonel, Medical Corps, U. S. Army
Assistant Professor of Clinical Medicine
- JOHN ARCHIBALD FERGUSON, M.S., M.D. 107 Main St.
Assistant Professor of Pathology and Bacteriology Winooski
- JAY EDWARD GILLFILLAN 128 Summit St.
Lieut.-Col., U. S. Army
Assistant Professor of Military Science and Tactics
- RICHARD BARNES KENNAN, A.M. 343 S. Prospect St.
Assistant Professor of Education
- FRANKLIN PATTERSON LOWRY, B.S., M.D. 313 Washington St.
Assistant Professor of Physical Therapy Newton, Mass.
- WALTER ALVA STULTZ, Ph.D. 43 Mansfield Ave.
Assistant Professor of Anatomy
- RANDOLPH SHEPARDSON TOWNE, A.M. 448 S. Union St.
Assistant Professor of Romance Languages
- HIRAM EUGENE UPTON, B.S., M.D. 144 DeForest Rd.
Assistant Professor of Clinical Medicine
- KEITH FRANK TRUAX, B.S., M.D. 371 Pearl St.
Assistant Professor of Surgery and Assistant Director of the Free Dispensary
- ELLSWORTH LYMAN AMIDON, B.S., M.D. 120 Colchester Ave.
Assistant Professor of Medicine
- WILLIAM LAWRENCE GARDNER, B.S. 17 Overlake Pk.
Assistant Professor of Physical Education for Men

Officers of Instruction

19

FRANK PACKARD COFFIN	31 N. Prospect St.
Major, U. S. Army	
Assistant Professor of Military Science and Tactics	
RALPH LESLIE CUDLIPP, M.D., F.A.C.S.	Fort Ethan Allen
Lieut.-Col., Medical Corps, U. S. Army	
Assistant Professor of Clinical Surgery	
CLIFFORD SHATTUCK LEONARD, Ph.D.	31 Cliff St.
Assistant Professor of Pharmacology	
EUGENE YOUNGERT, A.M.	59 University Ter.
Assistant Professor of Education	
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* Deceased January 31, 1939.

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* Appointed Instructor in Physics, April 11, 1939.

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‡ Interim appointment.

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† Resigned March 1, 1939.

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EVERETT ARTHUR KEYES, M.S.

46 East Ave.

Assistant Animal and Dairy Husbandman

FREDERICK MADISON SKELTON, B.S.A.

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60 Colchester Ave.

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Botanist

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36 Overlake Pk.

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842 North Ave.

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RUTH ALICE JEWETT, B.S.	189 S. Winooski Ave.
Chittenden County	Burlington
DONALD YOUNG STILES, B.S.	St. Albans
Franklin County	
NORMA ELISABETH HATHORN, B.S.	Morrisville
Lamoille County	
HARRIET ELLICE PROCTOR, B.S.	Chelsea
Orange County	
GLENN FREDERICK McPHEE, B.S.	Newport
Orleans County	
EDWIN EMIL BERGSTROM	Rutland
Rutland County	
WINIFRED SARAH PERRY, B.S.	Montpelier
Washington County	
BRUCE ROBERT BUCHANAN, B.S.	Brattleboro
Windham County	
GEORGE ALLEN, B.S.	White River Junction
Windsor County	

THE SUMMER SESSION, 1938

The Faculty

GUY WINFRED BAILEY, LL.D

President of the University

FRANCIS L. BAILEY, A.M.

State Commissioner of Education

BENNETT C. DOUGLASS, Ph.D.

Director of Summer Session and Professor of Education

NELLE A. ADAMS, A.M.

Instructor in Elementary Education

WELLINGTON E. AIKEN, A.M.

Associate Professor of English

HOWARD G. BENNETT, A.M.

Professor of Music

HOLDEN B. BICKFORD, A.B.

Instructor in German

CHARLES E. BRAUN, Ph.D.

Associate Professor of Organic Chemistry

CLARE DUDLEY BUCK

Instructor in Speech, Grand Rapids, Mich.

ALFRED G. BUEHLER, Ph.D.

Associate Professor of Economics

JAMES A. BULLARD, Ph.D.

Professor of Mechanics and Mathematics

RALPH A. BURNS, Ed.M.

Professor of Education, Dartmouth College

ARTHUR D. BUTTERFIELD, M.S., A.M.

Professor of Mathematics and Geodesy

PHILLIPS D. CARLETON, A.M.

Assistant Professor of English

FRED D. CARPENTER, Ph.D.

Professor of German

JOSEPH E. CARRIGAN, A.M.

Director, Vermont Agricultural Extension Service

DANIEL B. CARROLL, Ph.D.

Associate Professor of Political Science

MARION CARSWELL

Principal, Hubbard Woods School, Winnetka, Ill.

RUTH W. COBURN, A.B.

Art Supervisor, Burlington

ELIZABETH V. COLBURN, A.M.

Assistant Professor of Education (Art)

EDWARD J. COLGAN, A.M.

Professor of Education and Psychology, Colby College

REX M. COLLIER, Ph.D.

Assistant Professor of Psychology

LEON W. DEAN, A.B.

Assistant Professor of English

ELIZABETH H. DEE, A.M.

Instructor in Physical Education, New York City

JOHN B. DEFOREST, Ph.D.

Associate Professor of Romance Languages

ROLAND F. DOANE, A.M.

Assistant Professor of Romance Languages

ELEAZER J. DOLE, Ph.D.

Associate Professor of Botany

GEORGE DYKHUIZEN, Ph.D.

Associate Professor of Philosophy

CHARLOTTE DEVOLT ELDER

Instructor in Public School Music and Violin

PAUL D. EVANS, Ph.D.

Professor of History

MAZY H. EWERT, B.S.

Assistant in Art

ALIDA B. FAIRBANKS, A.M.

Assistant Professor of Home Economics, State Supervisor Home Economics

FLORENCE E. FISHER

Demonstration Teacher, Grades 1 and 2

W. LAWRENCE GARDNER, B.S.

Assistant Professor of Physical Education and Coach of Baseball

GEORGE G. GROAT, Ph.D.

Professor of Economics

MILO B. HILLEGAS, Ph.D.

Emeritus Professor of Education, Teachers College, Columbia University

SARA M. HOLBROOK, A.M.

Assistant Professor of Education

FRED S. KENT, M.D.

Medical Director of the University

GEORGE V. KIDDER, Ph.D.

Associate Professor of Greek and Latin

LOIS J. KING

Demonstration Teacher, Grades 5 and 6, Teachers' College, New Haven, Conn.

WILLIAM KVARACEUS, Ed.M.

Educational Consultant, Brockton, Mass.

MELVIN H. LAATSCH, A.M.

Assistant Professor of Political Science

EDGAR E. LINEKEN, M.S.

Assistant Professor of Chemistry

EDITH S. LISTER

Instructor in Vocal Music, New York City

EARL H. LITTLE, M.S.

State Supervisor of Agricultural Education, Concord, N. H.

LUCIE ANN McCALL, A.M.

Supervisor of Fine Arts, Grand Rapids, Mich.

FRANK McMULLAN, M.F.A.

Assistant Professor of Play Production, Department of Drama, Yale University

RICHARD M. MARBLE, M.F.

Instructor in Zoology

MIRIAM N. MARSTON, A.M.

Instructor in Public School Music, Piano and Organ

W. HOWARD MARTIN, M.S.

Instructor in Agricultural Education

JOHN T. METCALF, Ph.D.

Associate Professor of Psychology

HOWARD G. MILLINGTON, C.E.

Assistant Professor of Mathematics

ISABEL CLARK MILLS, A.M.

Instructor in Art

PAUL A. MOODY, Ph.D.

Associate Professor of Zoology

ELIZABETH W. MORRILL, B.S.

Director Peter Pan Nursery School, Burlington, Vt.

GEORGE H. NICHOLSON, A.M.

Assistant Professor of Mathematics

RALPH E. NOBLE, A.M.

Director of Secondary and Vocational Education for Vermont

CATHERINE F. NULTY, Ed.M.

Assistant Professor of Economics (Secretarial)

VERNA E. PARKER, A.M.

Assistant in Education

JAMES E. POOLEY, A.M.

Assistant Professor of Greek and Latin

ARCHIBALD T. POST, B.S.

Assistant Professor of Physical Education

HERBERT E. PUTNAM, Ph.D.

Assistant Professor of History

LORRIN A. RIGGS, Ph.D.

Instructor in Psychology

MARGARET A. RITCHIE, B.S.

Instructor in Art, Roosevelt High School, Yonkers, N. Y.

WILLIAM A. ROSS

Specialist in Agricultural Education (Subject Matter), United States Office of Education

LYMAN S. ROWELL, M.S.

Assistant Professor of Zoology

JOHN F. SCULLY, M.Pd.

Special Lecturer in Education, Dartmouth College

W. WARREN SHAW, A. M.

Director of Vocal Music, New York City

KENNETH J. SHELDON, A.M.

Associate Professor of Agricultural Education, Supervisor of Agricultural Education for Vermont

HELEN E. STENSON, A.M.

Specialist in Rural Education, State Teachers College, Kalamazoo, Mich.

FRANCES BRUCE STRAIN, A.B.

Associate Director of Education, Cincinnati Social Hygiene Society

MARY B. SULLIVAN, A.M.

Instructor in Elementary Education

ELEANOR SUTCLIFFE

Demonstration Teacher, Grades 3 and 4, Springfield, Mass.

WILNETTA S. TAGGART, B.L.I.

Instructor in Play Production

LAURENCE M. THOMPSON, M.D.

Specialist in First Aid, American Red Cross, Washington, D. C.

RANDOLPH S. TOWNE, A.M.

Assistant Professor of French and Spanish

FREDERICK TUPPER, Ph.D.

Professor of English

HARRY R. VARNEY, Ph.D.

Extension Economist

BENJAMIN B. WAINWRIGHT, A.M.

Assistant Professor of English

STANLEY WOOD, B.A.

Instructor in Stage Craft, Maplewood, N. J.

FLORENCE M. WOODARD, Ph.D.

Associate Professor of Economics

LLOYD A. WOODWARD, M.S.

Assistant Professor of Physics

CARLTON E. WRIGHT, M.S.

Instructor in Farm Mechanics

Administration

JENNIE E. ALLEN

Director of Dormitories

FRANCIS L. BAILEY, A.M.

State Commissioner of Education

GUY W. BAILEY, LL.D.

President

MARY R. BATES, Ph.B.

Associate Librarian

BENNETT C. DOUGLASS, Ph.D.

Director

FORREST W. KEHOE, B.S.

Registrar

HELEN NICHOLS, B.S.

Dietitian

ALICE M. MADIGAN, B.S.

Secretary

HELEN B. SHATTUCK, A.B.

Librarian

MARY JEAN SIMPSON, Ph.B.

Dean of Women

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 forty-seven 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 architects were McKim, Mead and White of New York.

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 Art Committee of the Museum, and by the Fleming 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 children of the city. The facilities and exhibits of the Museum are made available to all the schools of Vermont.

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 BUILDING (*Erected 1891*)

This building located at 481 Main Street, just west of the Experiment Station Annex, is occupied as an administration building by the Agricultural Extension Service.

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. The Publicity Bureau has offices in the west wing.

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

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. Jedevine as a memorial to his son, Cornelius A. Jedevine, 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 nineteen 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 twenty-eight hundred and fifty 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 seventy-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 three hundred twenty-five 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 CHARLES H. BAYLEY LOAN FUND, amounting to five thousand dollars, was established in 1937 by gift of Laura Morse Bayley in honor 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 thirty-three thousand dollars, was established in 1838 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 two hundred dollars, is available to students enrolled in the College of Agriculture. The awards are made on recommendation of the Dean of that College.

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 Bringham 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 ORDRONAU 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 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 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.

THE 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.

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 four individual debaters judged the best will each be awarded a three hundred dollar scholarship. Each of the four debaters who are judged second best will be appointed to a scholarship of one hundred and fifty dollars.

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

The University provides annually six district scholarships; one of one hundred and fifty dollars and one of one hundred dollars, to the ranking winners in each of the three districts of the Vermont State Interscholastic Prize Speaking Contest. Three scholarships of one hundred and fifty dollars, one hundred dollars and seventy-five dollars are also awarded to the first, second and third ranking participants in the final contest.

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

Five scholarships of two hundred dollars each are offered each year by the University to freshmen, not residents of Vermont, who have completed four years of preparatory Latin with honor grades. Those appointed will be expected to take courses in Greek and Latin in college. The scholarships will be renewed in succeeding years for students who maintain high standing and continue the study of classical languages. The awards are made by the Classical Department.

CITIZENS MILITARY TRAINING CAMP SCHOLARSHIPS

Four 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 those C. M. T. C. students at the C. M. T. Camps in New England, who, having submitted evidence of having fulfilled the University of Vermont entrance requirements and of being in need of financial assistance in order to attend college,

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.

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 shall 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.
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. 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. Radio broadcasting is now a regular teaching method used by the Agricultural Extension Service in its work among the rural people of the state. Four stations within and one outside of Vermont are used regularly for this purpose, the equivalent of about ten broadcasts per week being made. 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, the Extension Service 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 children. The Fleming Museum Art Association has a large adult 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.

ENTRANCE SUBJECTS

ENGLISH

The requirement in English is designed to develop in the student the ability to read with understanding, knowledge and judgment of literature, and accurate thinking and power in oral and written expression. 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 meet the need 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, with adequate scope, 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 rigorous and 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.

This training should be directed to the expansion and intelligent ordering of the student's experience, and the increase of his sense of power and enjoyment in writing.

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.

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.

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.)

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 Bona-*

parte 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.)

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 an accurate 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 studying 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 study of civil government should include a careful analysis of the Constitution of the United States—the powers, organization, and functions of the federal government, the relations between the state and the federal government, and the general nature and extent of the powers reserved to the states. This study should be closely coordinated with American history at every point of contact. ($\frac{1}{2}$ 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 text-books, 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 text-books, 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.)

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.)

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.)

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.)

ZOOLOGY

Biology of animals, including study of the great groups, as represented by the following: Amoeba, Paramecium, sponge, Hydra, starfish, earth-worm, 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.)

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.)

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.)

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

THE COLLEGE OF MEDICINE

PRE-MEDICAL PREPARATION

Most approved Medical Colleges now require at least three years of acceptable pre-medical preparation which must be completed at an institution recognized by the American Medical Association. It is recommended that all students who intend to apply for admission to the College of Medicine of this University complete a four-year liberal arts curriculum which includes the subjects prescribed by the American Medical Association. The minimum requirement, however, may be met by completing the seven-year combination curriculum, which leads to the baccalaureate degree at the end of the first year in Medicine and the degree of Doctor of Medicine at the end of the seven-year period. An outline of this curriculum will be found elsewhere in this Catalogue.

As pre-medical and medical curricula have been correlated at the University of Vermont, if preparation is to be taken at another institution, the courses elected should correspond as closely as possible with the subject-matter included in the pre-medical work given in the College of Arts and Sciences.

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 and the courses in Industrial Education from 400 to 499. The courses in Elementary and Industrial Education are separate from the courses offered in the four colleges.

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 AND RENAISSANCE PAINTING. An outline sketch of the Greek Art and of European Painting from 1300 to 1800. The purpose of the course is to help the student to understand the meaning of art, to appreciate some of the masterpieces, and to recognize the influence of the art of the past upon the life of the present. *Two hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS.

Professors Kidder and Prindle

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*

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.* ELEC-
TIVE. *Professor Colburn*

ART EDUCATION

For courses in Art Education refer to the Index.

*BOTANY

*Professors Burns, Lutman, Dole, Adams and Gershoy; Miss Stone,
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 must be followed by Zoology 1. Laboratory Fee \$2.50 per semester. *Four hours, first semester.* REQUIRED (PR. MED.) FRESHMEN. *Professors Burns and Gershoy*
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 (Women). *Miss Stone*
Section B (Women). *Professor Dole*
Sections C and D (Men). *Professor Gershoy, 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 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*

* For other courses in Botany refer to the Index.

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, first semester, repeated 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.* REQUIRED (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; Mr. Lucarini, Dr. Crooks, Miss †Brown, Dr. Price and Mr. McDermott

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. *Five hours.* ALTERNATE REQUIREMENT WITH CHEMISTRY 21 FOR (CH., ‡ENG., G. S. AND PR. MED.). ELECTIVE TO OTHERS. PREREQUISITE: ENTRANCE CREDIT IN CHEMISTRY. *Professors Lineken, Kern, Burrows, Braun; Mr. Lucarini, Dr. Crooks, Dr. Price and Mr. McDermott*
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. *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. PREREQUISITE: CHEMISTRY 1 OR 21. *Professor Burrows*

* For other courses in Chemistry refer to the Index.

† Absent on leave.

‡ Engineering students enroll in a single three-hour laboratory section and receive a credit of five hours for the first semester and four hours for the second.

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; Mr. Lucarini*
21. INTRODUCTORY INORGANIC 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. *Five hours.* ALTERNATE REQUIREMENT WITH CHEMISTRY 1 FOR (CH., *ENG., G. S. AND PR. MED.) FRESHMEN. ELECTIVE TO OTHERS. *Professors Lineken, Kern, Burrows and Braun; Mr. Lucarini, Dr. Crooks, Dr. Price and Mr. McDermott*
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; Dr. Crooks*
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 Willmarth; Dr. 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.

* Engineering students enroll in a single three-hour laboratory section and receive a credit of five hours for the first semester and four hours for the second.

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*

ECONOMICS

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

1. ELEMENTARY ECONOMICS. An introductory course covering the elements of the subject. *Three hours.* REQUIRED (BUS.) SOPHOMORES. ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. *Professor Buebler 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 Buebler*
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 Buebler*
5. CORPORATION FINANCE AND INVESTMENTS. A comparison of the various types of business enterprise and elaboration of the principles

* Absent on leave.

of financing large-scale industry followed by instruction in the 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; Miss Levarn*

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. *Miss Levarn*
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. *Professor Davis and Miss Levarn*
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.

* Absent on leave.

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. *Three hours.* REQUIRED (C. T.) SENIORS. Not open to others.
Miss Levarn

EDUCATION

Professors Douglass, Sheldon, Bennett, Colburn, Holbrook, Wheeler, Nelle Adams, Kennan, Youngert, Eleanor Cummings, W. R. Adams, Rowell; Miss Marston, Mrs. Mills, Mrs. Elder, Misses Sullivan, Parker, LeBaron, Mary F. Madigan 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

* 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., 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.) 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, achievement, personality and special abilities, with study of their development and use as an aid to the improvement of instruction. *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. *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 TO SENIORS IN EDUCATION AND GRADUATE STUDENTS IN EDUCATION.

* ELEMENTARY EDUCATION

Professors Douglass, Wheeler, Nelle Adams, Sheldan, Bennett, Colburn, Holbrook, Kennan, Cummings, W. R. Adams, Rowell, Youngert; Misses Marston and Sullivan, Mrs. Mills, Mrs. Elder, Misses Parker, LeBaron and Mary F. 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.

Professors Nelle Adams and Holbrook

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.

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 carefully 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 Mary 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. *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. *Six hours, second semester.* REQUIRED (EL. ED.). PREREQUISITE: EDUCATION 332.

Professors Douglass, Wheeler, Nelle Adams, Kennan, Sheldom 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 will be placed upon elementary theory and appreciation through rote songs. *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 Bennett; 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.) FRESHMEN.

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.). PREREQUISITE: ELEMENTARY EDUCATION 337.

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. *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 AND INDUSTRIAL ARTS. This course is divided into two interdependent parts, both working towards the solution of the problems presented by exceptional children.

The first is a study of the principles of mental hygiene with special emphasis upon the application of these principles to the problems of the teacher dealing with exceptional children.

The second part is a study of practical methods of meeting the problems of exceptional children through instruction and practice in weaving, brushmaking, metal work, woodworking and other kinds of industrial arts suitable for use in rural and urban schools. Studio Fee \$1.00 per semester. *Three hours.* ELECTIVE (EL. ED.).

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 and Mrs. Mills

344. RURAL EDUCATION. A study of the social forces which are influencing modern American life, the best use 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: 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. Actual teaching of children under supervision. Students selecting this course should also take or have taken Music 1 and Music 8, unless

exempted from the latter by examination. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE (EL. ED.) JUNIORS AND SENIORS.

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

401. PRINCIPLES OF VOCATIONAL EDUCATION. A study of the history, principles and problems, including early apprenticeship systems, the manual training movement, state and federal legislation and aid, and modern trends in industrial training. *One hour, first semester.* REQUIRED (IND. ED.) JUNIORS.
402. METHODS OF TRADE TEACHING. This course presents the relations of vocational education and the industrial arts, and special methods of teaching trade, industrial shop and related subjects. It consists of lectures, discussions and shop sessions. *One hour,* REQUIRED (IND. ED.) SENIORS.
403. TRADE ANALYSIS. An analytical study of shop practice as a basis of course planning. *One hour,* REQUIRED (IND. ED.) SENIORS.
404. TRADE INSTRUCTION MATERIAL. A survey of trade literature and teaching aids with emphasis on organization of the materials. *Two hours,* REQUIRED (IND. ED.) SENIORS.
405. TEACHING INDUSTRIAL ARTS. A study of the organization and management of the general shop or laboratory in the industries. *Two hours,* REQUIRED (IND. ED.) SENIORS.
406. OBSERVATION AND PRACTICE TEACHING. This course includes observation and conference discussions, followed by supervised practice in the teaching of trade and industrial classes in the public schools of Burlington and vicinity. *Three hours, second semester.* REQUIRED (IND. ED.) SENIORS.
421. SHEET METAL AND WELDING. A practical course designed for students preparing to teach courses in trades and industries. Laboratory Fee \$2.50 per semester. *One hour,* REQUIRED (IND. ED.) SENIORS.

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

*ENGLISH

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

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

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 OF ALL SOPHOMORES.

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

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.

(1939-1940) *Professor Tupper*
(1940-1941) *Professor Pope*

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

* 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.

† Absent on leave.

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, 1939-1940.)
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, 1939-1940.)
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, 1939-1940.)
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, 1939-1940.)

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, 1939-1940.)
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, 1939-1940.) *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. GENERAL FORESTRY. A synoptical course covering the general principles of forestry and its relation to the broad subject of conservation. An introduction to the profession of forestry touching on the important subjects of silviculture, management, lumbering, utilization and technology, including nursery practice. The identification and characteristics of trees and the common woods. Text-book, lectures, laboratory and field work. Laboratory Fee \$2.50 for the first semester only. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS AND OTHERS BY SPECIAL PERMISSION.
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.* PREREQUISITE: 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 environment. The course is devised to apply both in horticulture and silviculture. Research methods. *Three hours, first semester; repeated second semester.* PREREQUISITE: FORESTRY 1 OR 2, OR BOTANY 4.

FRENCH

For courses in French see Romance Languages.

* For other courses in Forestry refer to the Index.

***GEOLOGY**

Professors Jacobs and Doll; Miss Carleton

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 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 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.

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. *Professor 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. (See also German 11.) *Three hours.* ELECTIVE TO ALL CLASSES. PREREQUISITE: GERMAN 1 OR AT LEAST TWO YEARS OF PREPARATORY GERMAN. *Professor Ladd; 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*

* Absent on leave.

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.
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.
Professor Ladd
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.)
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.)
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, 1939-1940.)

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.

GREEK

Professors Kidder and Pooley

- 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. *Professors Kidder and 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.
103. 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 105). 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.
105. 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.
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 108.
107. ADVANCED PROSE COMPOSITION. *One hour.* ELECTIVE BY PERMISSION.
108. 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.

HISTORY

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

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. ENROLLMENT LIMITED TO THIRTY STUDENTS. *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. Quimby*
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, 1939-1940.) *Professor Putnam*
7. EARLY AMERICAN HISTORY. A course in American history from the discovery of the new continent to 1850 including a study of Colonial affairs, the Revolution, the Constitution, the new nationalism and Westward Expansion. *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 1850 to the present, including the slavery controversy, the Civil War, reconstruction, national and economic development and America as a world power. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. (Offered in alternate years, 1939-1940.) *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. *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. PREREQUISITES: HISTORY 8 AND HISTORY 12. 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*

*HOME ECONOMICS

Professors 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*

* For the curriculum and other courses in Home Economics refer to the Index.

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

ITALIAN

For courses in Italian see Romance Languages.

LATIN

Professors Prindle, Kidder, Pooley and Andrews

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.
4. 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, 1939-1940).
7. 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*
8. 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, 1939-1940.) *Professor Prindle*
9. 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

- *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*
12. 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*
- *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, 1939-1940.) *Professor Prindle*
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*
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

* 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. Latin 11 may also be counted toward a major in Greek. Latin 14 may be counted as a half-course in Education if taken in conjunction with Education 1, 5, 7, and 8.

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, 1939-1940.)

Professor Prindle

PREPARATORY COURSES IN LATIN

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

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

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 courses upon completion of Latin 1. Similarly, students who present two years of Latin for entrance may receive six hours of credit for Latin B upon completion of Latin 1. 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.

LITERATURE

See courses under English. For courses in Comparative Literature see German 10; Greek 103, 105; Latin 11, 16 and English 24.

*MATHEMATICS

(ARTS AND SCIENCES AND AGRICULTURE)

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 to Differential Calculus. *Credit: Algebra and Trigonometry, four*

* Those who expect to teach Mathematics must take course 2 and should take course 4.

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.

semester hours; Analytics, four semester hours. REQUIRED (CH., CL., S. ED., G. S., L. S., PR. MED., S. S.) FULL YEAR AND (AG.) FIRST SEMESTER ONLY. FRESHMAN.

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.
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.

MILITARY SCIENCE AND TACTICS

For the courses refer to the index.

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; 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 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
- * 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.

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
106. CANON AND FUGUE. *Three hours.* ELECTIVE BY PERMISSION. PREREQUISITES: 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. 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. Required reading. *Two hours.*
336. PUBLIC SCHOOL MUSIC 2. A continuation of the work of the first course in School Music, including part-singing and methods for developing the sense of rhythm and melody. *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 actual 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. *Miss Marston*

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*

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hours. ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES: PHYSICS 1 AND CALCULUS. (Offered in alternate years, 1940-1941.)

Mr. Walbridge

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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

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103. SOUND. Not offered in 1939-1940.

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104. ELECTRICITY AND MAGNETISM. An intermediate course in fundamental principles and their applications to electrical and 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 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, 1939-1940.)

Professor Holmes

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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-ray; x-ray diffraction and crystal structure and x-ray spectra with applications to atomic structure. In the laboratory the class employs a 200 kilovolt Coolidge tube for wave length measurement

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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, 1939-1940.)

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, 1939-1940.)

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 Mower, Carroll and Laatsch; Mr. Nuquist

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. *Professor Carroll; Mr. Nuquist*
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 OF THE BRITISH EMPIRE. 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 OF 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

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 protection, 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.

Mr. Nuquist

104. THE AMERICAN CONSTITUTION. A study of the Constitution of the United States and of its development through legislation, usage, and judicial interpretation. Particular emphasis is laid upon decisions of the United States Supreme Court. This course is recommended to students of the history and government of the United

States, and to prospective law students. The alternating course is 114. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: POLITICAL SCIENCE I. *Professor Mower*

106. FOREIGN RELATIONS OF THE UNITED STATES. A study of the foreign policies of the United States, particularly territorial expansion, the Monroe Doctrine, the American doctrine of neutrality, Pan-Americanism, policy in the Caribbean, international arbitration, the Open Door, the United States as a World Power. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. *Professor Laatsch*

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, 1940-1941.) *Mr. 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. The alter-

nating course is 104. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREVIOUS CREDIT IN POLITICAL SCIENCE RECOMMENDED. (Offered in alternate years, 1940-1941.) *Professor Mower*

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: American Government, the American Constitution, International Relations, Foreign Relations of the United States, Far Eastern Politics, and 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, Mr. Lebnor*

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; Mr. Lebnor*
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 psychoanalysts will be critically considered. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*

* Absent on leave, 1938-1939.

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. *Mr. Lebner*

ROMANCE LANGUAGES

FRENCH

*Professors *Myrick, DeForest, Doane and Towne; Messrs. Slack and Morrisette*

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. *Messrs. Slack and Morrisette*
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. *Professor Doane; Messrs. Slack and Morrisette*
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

* Absent on leave.

in French. *Three hours.* ELECTIVE TO SOPHOMORES, JUNIORS AND SENIORS. PREREQUISITE: FRENCH 3.

Professors 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 1939-1940.) *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 Doane*
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. *Professor Doane*
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. *Professor 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, 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.

* Absent on leave, 1938-1939.

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 Towne*
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 COURSES 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

* Absent on leave, 1938-1939.

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, Messrs. Levine and Perry

1. PRE-MEDICAL ZOOLOGY. A survey of the animal kingdom and the evolution of organs and systems. This course is taught with special reference to medicine as an objective and particularly as a preparation for future courses in human anatomy, histology, embryology, and physiology. Laboratory Fee \$4.00. *Four hours, second semester, supplementing Botany I.* REQUIRED (PR. MED.) FRESHMEN. *Mr. Levine*
2. GENERAL ZOOLOGY. A study of typical invertebrate and vertebrate animals to illustrate the principles of Zoology—structure, physiology, behavior, life history and the relation of Zoology to human

* Students who major in Zoology are required to enroll in Zoology 111 during the Senior year. For other courses in Zoology, refer to Index.

University of Vermont

welfare. Laboratory Fee \$4.00 per semester. *Four hours.* ELECTIVE TO ALL CLASSES.

Professors Moody, Rowell; Mrs. Loudon, Mr. Levine

5. ANIMAL ECOLOGY. A course treating of the distribution of animals and their relations to one another and to their other 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. *Mr. Perry*
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 and study 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. EMBRYOLOGY. This course is an introduction to the embryology of the mammal. It includes the different types of egg development and the significance of the steps. About one-third of the term is occupied in a study of the chick. Laboratory Fee \$4.00 per semester. *Four hours, first semester. Repeated second semester.* PREREQUISITE: ZOOLOGY 1 OR 2 OR THE EQUIVALENT. *Professor Rowell, Mrs. Loudon*
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.) *Mr. Levine*
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.
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.
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*

13. **PHYSIOLOGY.** An introduction to human physiology, including a detailed study of the functions of the various systems. Demonstrations, lectures and models supplement the recitation. There is experimental work upon cold-blooded animals and microscopic study of mammalian tissues. Laboratory Fee \$2.50. *Three hours, first semester. Repeated in the second semester.* ELECTIVE TO ALL STUDENTS. PREREQUISITE: ZOOLOGY 1, 2 OR 3 OR THE EQUIVALENT. *Mr. Perry*
14. **EDUCATIONAL BIOLOGY.** This course is an outline of the foundations of general zoology; classification, morphology, physiology, evolution, heredity, embryology, paleontology, by lecture and reading and illustrations. Field trips acquaint the student with the habitat and methods of collecting the animals used. Part of the course consists of projects executed by the student. Laboratory fee for this part of the course \$2.00 per semester. This course is not a preparation for advanced courses in Zoology. *Two hours. (One lecture and one laboratory supplementing Botany 14.)* OPEN TO EDUCATION STUDENTS ONLY. *Professor Rowell*
106. **PRIMATE ANATOMY.** A detailed dissection of the Rhesus monkey. Recommended to candidates for Senior Honors in Zoology. Laboratory Fee \$12.50 payable in the first semester only. *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 Eckbard, 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. *Four 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. *Four 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; three 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 Eckbard*
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; numer-

ous problems exemplify the theory. *Three hours, second semester*
(C. E.) JUNIORS. *Dean Eckbard*

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, second semester.* ELECTIVE (C. E.) JUNIORS AND SENIORS. (Offered in alternate years, 1939-1940.)
Professor Puffer
8. MATERIALS OF CONSTRUCTION. A study of the manufacture, uses and properties of iron and steel, cements, concrete and other structural materials. Lectures. *One hour, first semester* (ENG.) JUNIORS.
Professor Puffer
9. MATERIALS LABORATORY. Testing of Portland cement, aggregates, concrete, wood and steel. Laboratory Fee \$2.50. *One hour, second semester* (ENG.) JUNIORS.
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.). *Three 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, first semester* (C. E.) SENIORS.
Professor Puffer
15. ENGINEERING CONSTRUCTION. A course dealing with the foundations of structures; steel, concrete and timber piles and grillages; caissons, coffer-dams, cribs and piers; river and harbor improvement; design and construction of canals and docks, concluding with a study of the methods of tunneling. *Three hours, second semester* (C. E.) SENIORS. ELECTIVE (M. 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, first semester* (C. E.) SENIORS.
Mr. Lynde
18. HYDRAULICS LECTURES. 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; hydraulic machinery; stream discharge and water power. *Three hours, first semester* (ENG.) SENIORS.
Professor Puffer
19. HYDRAULICS LABORATORY. An experimental and field study course in hydraulic measurements including stream flow, tests of meters and the water wheel. 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 runoff; 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*. ELECTIVE (C. E., M. E.) JUNIORS AND SENIORS. (Offered in alternate years, 1938-1939.)
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* (M. E.) SENIORS. ELECTIVE (E. E.) JUNIORS. *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*

DRAWING AND DESCRIPTIVE GEOMETRY

Professors Sussdorff and Lucarini; Mr. Lynde

1. MECHANICAL DRAWING. A course which includes the use of instruments, geometric construction, orthographic projection, freehand sketching, lettering and titles. *Three hours, first semester* (ENG.) FRESHMEN *Professor Sussdorff; Mr. Lynde*
2. MECHANICAL DRAWING. A supplementary course in engineering drawing, including auxiliary views, section views, screw threads, tracing, isometric and oblique drawings. *Two hours, second semester* (ENG.) FRESHMEN *Professor Sussdorff; Mr. Lynde*
3. DESCRIPTIVE GEOMETRY. A course in the analysis and solution of problems on points, lines, planes and curved surfaces by both the direct and revolution methods of orthographic projection, including practical applications. *Three hours, first semester* (ENG.) SOPHOMORES. *Professor Lucarini; Mr. Lynde*

ELECTRICAL ENGINEERING

Professors McKee, Buchanan, Williams and Shorey

1. ELEMENTS OF ELECTRICAL ENGINEERING. A study of the laws of electric and magnetic circuits and their application to Electrical Engineering. *Two hours* (E. E.) SOPHOMORES.
2. DIRECT CURRENT MACHINES. A course presenting the characteristics of direct current machines. *Five hours, first semester* (E. E.) JUNIORS.
3. ELECTRICAL LABORATORY. A course in direct current measurements and circuits and experimental determination of the characteristics of direct current machines. Laboratory Fee \$5.00 per semester. *Two hours* (E. E.) JUNIORS.
4. ELEMENTS OF COMMUNICATION. A study of the fundamental principles of communication systems. Laboratory Fee \$2.50 per semester. *Three hours* (E. E.) SENIORS.
5. ALTERNATING CURRENT THEORY. A mathematical and graphical analysis of current and voltage relationships in single and polyphase circuits. *Five hours, second semester* (E. E.) JUNIORS.
6. ELECTRICAL LABORATORY. A course in the experimental determination of characteristics of alternating current circuits and machines. Laboratory Fee \$5.00 per semester. *Two hours* (E. E.) SENIORS.
8. POWER TRANSMISSION. A study of the design, construction and operation of transmission and distribution systems. *Three hours, second semester* (E. E.) SENIORS.
9. POWER STATIONS. A lecture course presenting the Electrical Engineering features of steam, water and oil engine power plants. *Three hours, second semester* (E. E. AND M. E.) SENIORS. ELECTIVE.
10. GENERAL ELECTRICAL ENGINEERING. A study of direct and alternating current circuits, including operation and maintenance of direct current and alternating current machinery presented by lectures, problems, laboratory and inspection trips. Laboratory Fee \$2.50 per semester. *Three hours* (C. E. AND M. E.) JUNIORS.
11. ELECTRONICS. A study of the theory, characteristics and engineering application of electron tubes. *Two hours, first semester* (E. E.) SENIORS.
12. TRANSIENT PHENOMENA. A mathematical development of expressions 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.

13. 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.
16. SPECIAL TOPICS. Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines or systems. *Three hours* (E. E.) SENIORS, ELECTIVE.
17. ALTERNATING CURRENT MACHINES. A study of the principles of design, construction and operation of alternating current machines. *Five hours, first semester; three hours, second semester* (E. E.) SENIORS.
18. ELECTRONICS LABORATORY. An experimental course in the 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, second semester* (E. E.) SENIORS.

GENERAL ENGINEERING

1. ENGINEERING. An introduction to the field of engineering, including a discussion of the types of work performed by engineers, presented by lectures, demonstrations, field work and inspection trips to local industries and engineering projects. *One hour*, REQUIRED OF ALL FRESHMEN ENGINEERS. *Professors McKee, Puffer and Taylor*
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 Buebler*
3. CONTRACTS AND SPECIFICATIONS. The business and professional relations of the engineer, together with the study of engineering contracts and specifications, and the technical laws relating to their proper enforcement. *Two hours, second semester* (C. E. AND E. E.) SENIORS. *Professor Puffer*

*MATHEMATICS AND MECHANICS

Professors Butterfield, Bullard and Millington

- A. INTERMEDIATE ALGEBRA AND SOLID GEOMETRY. A review course for those not sufficiently prepared for college work in Engineering Algebra and for those who do not present Solid Geometry. Fee

* The course descriptions in this department are only incomplete outlines of the actual content.

\$10.00. *Two hours, first semester* (ENG.) FRESHMEN. NO DEGREE CREDIT GIVEN. *Professor Millington*

1. *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.*
2. 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*
3. 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*
4. SOLID ANALYTICAL GEOMETRY AND ELEMENTS OF DIFFERENTIAL CALCULUS. The topics include the study of planes, lines and quadric surfaces in solid analytic geometry, and the derivatives of algebraic functions and their application in calculus. *Two hours, second semester* (ENG.) FRESHMEN. *Professors Butterfield and Millington*
5. 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. *Three hours, each semester* (ENG.) SOPHOMORES. *Professors Butterfield and Millington*
6. 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*
7. MECHANICS OF MATERIALS. The course includes a study of the behavior of elastic bodies, with particular attention to the beam, shaft

* For course in Spherical Trigonometry, see Civil Engineering 22 (Geodesy).

and column, including simple stress and strain, combined stresses, the elastic curve, and strain energy. *Three hours, first semester* (ENG.) JUNIORS. *Professor Bullard*

8. 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 Taylor, Sussdorff and Lucarini; Messrs. Batchelder and Lynde

1. HEAT POWER ENGINEERING. This course comprises a study of the construction and operation of steam equipment, such as boilers, engines, turbines, stokers, and of internal combustion engines, together with the numerous auxiliaries and instruments used in connection with this equipment. *Three hours, first semester*. (M. E.) JUNIORS.

Professors Taylor and Lucarini

2. THERMODYNAMICS. A study of the laws and principles underlying conversion of heat into mechanical work. Lectures, recitations and problems. *Three hours, second semester* (M. E.) JUNIORS.

Professors Taylor and Lucarini

3. MECHANICAL ENGINEERING. A study of the theory, design, practice and economy of steam and internal combustion engines, turbines and mechanical refrigeration. *Three hours, first semester* (M. E.) SENIORS.

Professor Taylor

4. INDUSTRIAL ENGINEERING. A course in industrial organization, including a study of the Taylor methods of machine shop management and an investigation of the relationships of labor and capital. *Three hours, second semester* (M. E.) SENIORS.

Professor Taylor

5. MACHINE DESIGN. A course in the application of the principles of mechanics and materials of construction to the solution of problems in the design of machines. *Three hours* (M. E.) SENIORS.

Professor Sussdorff

6. STEAM ENGINEERING LABORATORY. An experimental course in the calibration of measuring instruments and the efficiency of steam engines, the air compressor and the steam pump. Laboratory Fee \$7.50. *Three hours, first semester* (M. E.) SENIORS. ELECTIVE (E. E.) SENIORS. *Professor Taylor*
7. MECHANICAL ENGINEERING LABORATORY. An experimental course in efficiency tests and measurements of gasoline engines, air blowers and the steam boiler. Laboratory Fee \$7.50. *Three hours, second semester* (M. E.) SENIORS. *Professor Taylor*
8. HEATING AND VENTILATING. A study of the design and application of warm air, steam and hot water heating systems as used in domestic and commercial installations and modern automatic plants using gas, oil and coal fuels. In the second semester, a study of ventilation, including the design and operation of modern air conditioning equipment for humidification, washing, drying, heating and cooling of air used in the ventilation of buildings. *Three hours.* ELECTIVE (M. E.) JUNIORS AND SENIORS. (Offered in alternate years, 1939-1940.) *Professor Taylor*
9. INTERNAL COMBUSTION ENGINES. This course is an analytical study of the mixture type of internal combustion engine. There is an examination of the design features of the automotive, stationary, marine and aviation types of engines in order to determine the effect of basic design of fixed and moving parts upon engine performance, including a detailed study of manner in which the actual engine design may be related to theoretical Otto Cycle for highest efficiency. In the second semester the course is a study of the Diesel or injection type engine, its theory, design, performance and applications for automotive railroad and marine engineering. *Three hours.* ELECTIVE (M. E.) JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.) *Professor Lucarini*
10. MACHINE DRAWING. A study of shape and size descriptions of machine parts, including fits and limits. Detail working drawings, assembly drawings, jigs and fixtures. *Two hours, first semester* (M. E. AND E. E.) SOPHOMORES. *Professor Lucarini; Mr. Lynde*
11. MECHANISM. The study and solution of mechanism problems by analytical and drafting methods. Motion, parallel-motion mechanisms, cams, linked mechanisms, friction and toothed gearing and gear trains. *Two hours, second semester* (M. E.) SOPHOMORES. *Professor Lucarini; Mr. Lynde*

12. HEAT POWER ENGINEERING. An abridged course covering the essentials of courses 1, 2 and 3 above. *Three hours* (E. E.) JUNIORS. *Professor Taylor*
13. ENGINEERING DRAWING. A course in the design of elementary machine parts with problems involving the application of mechanics and mechanism. *Three hours* (M. E.) JUNIORS. *Professor Sussdorff*

SHOP PRACTICE

1. PATTERN MAKING. A course designed to give students such knowledge of the principles and methods underlying the production of castings, as is necessary in the execution of drawing and design work. The instruction includes lectures, recitations, construction of patterns and visits to commercial foundries. Laboratory Fee \$5.00 per semester. *Two hours* (M. E.) SOPHOMORES. *Professor Lucarini*
2. FORGING. A course designed to give practice in working iron and steel, including bending, shaping, and welding; demonstration and practical work in the hardening, tempering and heat treating of steel and the selection of proper materials for different kinds of work. Fee \$2.50 for each laboratory hour. *Two hours, first semester* (M. E.) JUNIORS; *one hour, first semester* (E. E.) JUNIORS. *Mr. Batchelder*
3. CHIPPING, FILING, AND LATHE-WORK. This course includes practical work in the use of hand tools with an introduction to the use of the lathe, and other machine shop equipment. Fee \$2.50 for each laboratory hour. *Two hours, second semester* (M. E.) JUNIORS; *one hour, second semester* (E. E.) JUNIORS. *Mr. Batchelder*
4. MACHINE TOOL SHOP. A course prepared to give the student sufficient knowledge of the use of machines to meet the requirements of beginners in general machine shop practice. Its main object is to reduce as much as possible the time required to bring a student with no previous shop experience to the point where he is able to do some real work in milling, shaping, grinding and turning. Laboratory Fee \$7.50 per semester. *Three hours* (M. E.) SENIORS. *Mr. Batchelder*
21. SHEET METAL AND WELDING. A practical course designed for students preparing to teach courses in trade and industrial education. Laboratory Fee \$2.50 per semester. *One hour.* REQUIRED (IND. ED.) SENIORS.

The College of Agriculture

AGRICULTURE

AGRONOMY

**Professor Miller; Messrs. Dunklee and Doan*

1. SOILS AND SOIL MANAGEMENT. A study of the physiography, physics, chemistry and biology of soils. The instruction includes recitations, lectures, supplementary reading, laboratory and field work. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (AG.) JUNIORS.
2. FIELD CROPS. A course of recitations, lectures, supplementary reading, laboratory and field work concerning cereals, hay and pasture grasses, legumes, forage, fiber, money and special crops; market grades, judging and identification. No laboratory fee. *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. *Three hours, first semester.* REQUIRED (P. I.) ELECTIVE TO JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)
103. AGRONOMY SEMINAR. 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, *Newlander and Herreid*

1. STOCK FEEDING. A course in the principles of animal husbandry and of animal nutrition, including roughages and concentrates, ration formulation and feeding practice. The instruction is by lectures, recitations and 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 with recitations, lectures and scoring practice. *Two hours, first semester and three hours second semester.* REQUIRED (AG.) SOPHOMORES.

* Absent on leave.

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, barn practice and marketing. The course includes lectures, recitations and 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 including lectures, recitations and laboratory in this branch of livestock management, including records, economic production, barn practice and marketing. No Laboratory Fee. *Three hours, first semester.* REQUIRED (D. P.) JUNIORS OR SENIORS. (Offered in alternate years, 1939-1940.)
Professor Campbell
8. DAIRY CHEMISTRY. A study of the chemical composition of dairy products taught by lectures, recitations and laboratory. The laboratory work includes sampling, analysis and the detection of adulterations. 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 presented by lectures, recitation and laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. M.) SOPHOMORES.
Professor Newlander
10. DAIRY MANUFACTURES 1. A course in general dairying, with lectures, recitations and laboratory study, including the secretion, physical properties and the care and handling of milk, Babcock testing and manufactured milk products. 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 with instruction by lecture, recitation and laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (D. P.) 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 given by lecture, recitation and

- laboratory. Laboratory Fee \$2.50. *Three hours, second semester, REQUIRED (D. P.) JUNIORS OR SENIORS. (Offered in alternate years, 1939-1940.)*
13. DAIRY MANUFACTURES 4. A course of lectures, recitations and laboratory work in market milk with emphasis on sanitary production, processing and the problems of marketing. Laboratory Fee \$2.50. *Three hours, first semester. REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1939-1940.)*
14. DAIRY MANUFACTURES 5. A course in the manufacture of ice cream, including the ingredients, theory and practice of processing and a study of manufacturing and distribution. The instruction includes lectures, recitations and laboratory. Laboratory Fee \$2.50. *Three hours, first semester. REQUIRED (D. M.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)* Professor Herreid
15. JUDGING DAIRY PRODUCTS. A lecture and laboratory course presenting the quality, criteria and market standards of dairy products with practical experience in scoring and judging. Laboratory Fee \$2.50. *Two hours, second semester. REQUIRED (D. M.) JUNIORS. Professors Newlander and Herreid*
116. SPECIAL INVESTIGATION. Special advanced work for qualified students. *Two or more hours. ELECTIVE TO SENIORS AND GRADUATE STUDENTS. Professors Ellenberger, Campbell, Newlander and Herreid*
18. DAIRY PLANT OPERATION AND MANAGEMENT. *Credit one hour. Two weeks of supervised practice in commercial plants prior to Senior year. REQUIRED (D. M.)* Professor Herreid

POULTRY HUSBANDRY

Mr. Leggett

1. POULTRY HUSBANDRY 1. A general course covering equipment, breeding, feeding, incubation, brooding, culling, diseases, management, and marketing. Lectures, recitations, laboratory. Laboratory Fee \$2.50 per semester. *Three hours, second semester. REQUIRED (P. I., D. P., D. M.) JUNIORS.*
103. POULTRY HUSBANDRY SEMINAR. Special advanced work; project work under supervision. *Three hours. ELECTIVE TO SENIORS AND GRADUATE STUDENTS.*

AGRICULTURAL ECONOMICS

Mr. Williams

1. FARM MANAGEMENT. The principles and problems of farm organization and management with emphasis on types, accounting, and the factors contributing to successful business operation. The course includes lectures, discussions and laboratory work. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (AG.) SENIORS.
2. MARKETING AGRICULTURAL PRODUCTS. The economic factors involved in marketing of the major products of Vermont farms, particularly the geography of production and interregional competition, areas of distribution, marketing agencies, methods and costs, sales and price policies, and public regulation presented by lectures, discussions and laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (AG.) SENIORS.
3. AGRICULTURAL COOPERATION AND CREDIT. A study of the development, legal aspects, membership relations, organization, financing and management of farmers' business associations, cooperative and other agencies supplying agricultural credit, including the cost, repayment and use of credit. The course includes lectures, discussions and laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AG.) JUNIORS OR SENIORS. (Offered in alternate years, 1939-1940.)
4. PUBLIC PROBLEMS OF AGRICULTURE. The nature and consequences of fluctuations in farm and other prices, including fixed and variable costs of farming, private and public indebtedness, the tax burden, organization and operation of local government. The course consists of lectures, discussions and laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AG.) JUNIORS OR SENIORS. (Offered in alternate years, 1940-1941.)

AGRICULTURAL EDUCATION

Professors Sheldon and Douglass; Messrs. Martin and Wright

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. *Three 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 includes 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, SENIORS.*
Mr. Wright

AGRICULTURAL ENGINEERING

Mr. Wright

1. **FARM MECHANICS.** A course of 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, with a study of current problems in general agricultural engineering. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (AG.) SENIORS.
2. **ELECTRICITY IN HOME AND FARM.** A study of the principles and practice of the safe and efficient use of electrical energy, including motors, generators, wiring codes and household and farm appliances. Laboratory Fee \$2.50. *Three hours, second semester.* 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, Lutman, Dole, Adams and Gershoy; Miss Stone, Messrs. Dodd and Ratledge

3. GENERAL BOTANY. A study of the morphology, anatomy, physiology and classification of higher plants given by lectures, recitations and laboratory. Laboratory Fee \$2.50 per semester. *Three hours (AG.)*
FRESHMEN. *Professor Adams; Mr. Ratledge*
4. PLANT PHYSIOLOGY. An experimental study of the nutrition of higher plants including problems of irritability and response. The course includes 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, with lectures, recitations, laboratory and greenhouse work. Laboratory Fee \$2.50. *Four hours, second semester.* REQUIRED (H. E.) FRESHMEN. *Miss Stone*
6. PLANT MORPHOLOGY. A study of plant types, representative of each of the larger phylogenetic groups, with special emphasis on the evolutionary development of vegetative and reproductive structures, the adaptation of the plant to its environment, life cycles and an introduction to the phylogenetic system of classification. The instruction includes lectures, recitations, laboratory. Laboratory Fee \$2.50 per semester. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Dole*
7. EMBRYOLOGY OF SEED PLANTS. In this course special emphasis is placed on morphogenesis, reproduction and heredity and the diverse types of the spermatophytes. There are lectures, recitations, laboratory and greenhouse work. Laboratory Fee \$2.50. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITES BOTANY 2 OR 3 AND 10. *Professor Gershoy*

* For other courses in Botany refer to Index.

10. PLANT PATHOLOGY. A study of the healthy plant, and the conditions producing disease. The course considers insect-produced diseases, bacteria and fungi, fungicides and their action. There are lectures, recitations, laboratory work. 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. The course consists of lectures, recitations, laboratory. Laboratory Fee \$5.00. *Four hours, first semester.* REQUIRED (AG.) SOPHOMORES.
Professor Lutman
13. HOUSEHOLD MICROBIOLOGY. A study of bacteria, yeast and molds in relation to home sanitation and to food preservation. 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.
109. SPECIAL INVESTIGATION. 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. Laboratory Fee to be determined annually *Three hours.* ELECTIVE BY PERMISSION. *Professor Dole*

*CHEMISTRY

Professor Willmarth; Dr. Crooks, Miss Aitken

15. AGRICULTURAL CHEMISTRY. A study of fundamentals of organic chemistry in special relation to agriculture, presented by lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (AG.) SOPHOMORES. *Professor Willmarth*
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. The course includes lectures, recitations, laboratory. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) SOPHOMORES.
Professor Willmarth; Dr. Crooks
20. CHEMISTRY OF FOODS. A general discussion of foodstuffs with chemical analyses of milk, edible fats and oils, carbohydrate foods, proteins, and tests for preservatives and adulterants. The instruc-

* For other courses in Chemistry, refer to Index.

tion includes 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 presented by lectures, recitations, laboratory. The teaching is related to professional preparation in Home Economics. Laboratory Fee \$7.50 per semester. *Five hours.* REQUIRED (H. E.) FRESHMEN.

Professor Willmarth; Miss Aitken

23. GENERAL INORGANIC CHEMISTRY. An introductory course in Inorganic Chemistry with special emphasis to its relation to agriculture. The work includes lectures, recitations and laboratory training. Laboratory Fee \$7.50 per semester. *Four hours.* REQUIRED (AG.) FRESHMEN.

Dr. Crooks

24. BIOCHEMISTRY. The elements of biochemistry including the chemistry of digestion and a study of the bile and other digestive fluids. The laboratory work includes qualitative and quantitative analyses of blood and urine and determinations of hydrogen ion concentration. Laboratory Fee \$5.00. *Three hours, first semester.* ELECTIVE (H. E.) SENIORS.

Professor Willmarth

*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. The course includes text assignments, lectures and 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 good lot conditions. The instruction is by text assignment, lectures and 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. The instruction is by lectures and text assignments. *Three hours, second semester.* ELECTIVE.

* For other courses in Forestry refer to Index.

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. The instruction includes lectures, text and reference readings and laboratory technique. Laboratory Fee \$2.00. *Three hours, second semester.* REQUIRED (D. P., P. I.) 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 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. The instruction consists of lectures, text assignments and laboratory work. 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.

* For other courses and the curriculum in Home Economics refer to Index.

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. *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.

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. This course is an application of 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 the science of practice, products and by-products, commercial aspects and extension problems. There are 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. The course includes lectures, laboratory, related readings, field work. Laboratory Fee \$2.50 per semester. *Three hours, first semester.* REQUIRED (TCH. AG., P. I.) JUNIORS OR SENIORS. (Offered in alternate years, 1939-1940.)
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. The instruction is presented by lectures, laboratory, text and reference reading assignments. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TCH. AG., 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. The instruction includes text and related reading assignments, lectures and laboratory work. Laboratory Fee \$2.50. *Three hours, second semester,* 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. The instruction includes lectures, recitations and clinics. No Laboratory Fee. *Three hours, one semester,* JUNIORS AND SENIORS. (Offered in alternate years, 1940-1941.)

*ZOOLOGY

Professor Rowell; Mrs. Loudon and Mr. Perry

3. **GENERAL ZOOLOGY.** An elementary course including a general survey of the animal kingdom with special consideration to the aspects of animal life that have a bearing on food supply, including house-

* For other courses in Zoology refer to Index.

hold pests, and the physiology and embryology of animals. Laboratory Fee \$4.00. *Four hours, first semester.* REQUIRED (H. E.) FRESHMEN. *Mr. Perry*

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. *Professor Rowell; Mrs. Loudon*

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, 1939-1940.) *Professor ———*

13. PHYSIOLOGY. An introduction to human physiology. The functions of the various systems are studied in detail. Demonstrations, lectures and models supplement the recitation. Experimental work upon cold-blooded animals and microscopic study of mammalian tissues. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. EC.) JUNIORS. *Repeated in second semester.* ELECTIVE TO ALL STUDENTS. PREREQUISITE: A COURSE IN GENERAL ZOOLOGY. *Mr. Perry*

The College of Medicine

ANATOMY

*Professors Brown, Jordan, Newhall, Stultz and Dunibue;
Dr. Piatt*

FIRST YEAR

- I. GROSS ANATOMY. Demonstrations, recitations and laboratory work. Twenty-two hours per week, first semester, and ten hours per week, during second semester, for eight weeks. *Four hundred thirty-two hours.*
- II. HISTOLOGY AND EMBRYOLOGY. The subject matter is organized and presented in the following parts and sequence: Histology, Embryology, Neuro-histology. Work is carried on by means of lectures, discussions, demonstrations and laboratory exercises, and continues throughout the first year. Among the topics considered are:

technique, microscopic structure of normal 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. *One hundred and ninety-two hours.* Histology, *approximately one hundred twelve hours.* Embryology, *approximately thirty-two hours.* Neurohistology, *approximately forty-eight hours.*

SECOND YEAR

- I. ANATOMY. General review. Correlation of gross anatomy, microscopic anatomy, and developmental anatomy. Recitations: One hour per week during first and second semesters. *Thirty-two hours.*

CHEMISTRY

Professors Whitney and Pierce; Dr. Davis; Messrs. Froeschle and Meservey

FIRST YEAR

- I. GENERAL PHYSIOLOGICAL CHEMISTRY. 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 of Physiology in the second year.

The laboratory facilities of the Department are available to qualified persons for research in Biochemistry.

Lectures and recitations, four hours per week, second semester. *Sixty-four hours.*

Laboratory, six hours per week, second semester. *Ninety-six hours.*

GYNECOLOGY

*Professors Eastman, Durfee and E. D. McSweeney; Drs. Rust and *B. F. Clark*

THIRD YEAR

- PRINCIPLES OF GYNECOLOGY. Lectures and recitations on gynecological lesions which are considered in detail, and the method of gynecological diagnosis and treatment indicated. *Sixty-four hours.*

* Absent on leave.

SECTION WORK. Students receive instruction in history taking and diagnosis at the Mary Fletcher Hospital. *Sixty-four hours.*

FOURTH YEAR

CLINICAL GYNECOLOGY. Student sections receive instruction at the Mary Fletcher Hospital two hours each week. They are drilled in history-taking, methods of examination, the use of gynecological instruments, diagnosis and treatment, including x-ray and radium therapy. Operative clinics in the amphitheatre. *Sixty-four hours.*

APPLIED GYNECOLOGY. Diagnostic work and supervised treatment of gynecological and obstetrical patients at the College Dispensary. Groups of two students are given twelve hours of individual instruction.

Daily rounds are made in the gynecological wards at the Mary Fletcher Hospital, where opportunity is afforded for individual instruction of assigned groups of students in practical bedside handling of gynecological patients.

OPHTHALMOLOGY, OTOLARYNGOLOGY AND RHINOLOGY

Professors Twitchell, McMabon and Larner

THIRD YEAR

Diseases of the lids, conjunctiva, orbit, lachrymal apparatus, cornea, uveal tract and fundus.

Lectures and practical demonstration of the methods used in estimating the refraction, including the use of the ophthalmoscope are given at the Mary Fletcher Hospital.

Lectures and recitations on the common diseases of the nose and throat, and the common diseases of the ear, with demonstrations at the hospital of the methods of examination.

Lectures and recitations. *Fifty hours.*

FOURTH YEAR

Clinical instruction Tuesday and Friday afternoons of each week at the Mary Fletcher Hospital outdoor clinic and at the Free Dispensary. Indoor 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.

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

Professor Johnson; Drs. P. D. Clark and Corley

THIRD YEAR

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. *Sixty-four hours.*

FOURTH YEAR

The work of the fourth year is mostly with small sections of students at the hospitals, Dispensary, the Maternity and Children's Homes. There is also one clinic a week in the amphitheatre. This work is all under supervision and students will be required to write up their cases and these case reports turned in and graded. There will also be assigned reading.

RADIOLOGY AND PHYSICAL THERAPY

Professors Soule and Lowry; Dr. Fogg

FIRST YEAR

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 and alimentary tract. *Eight hours.*

SECOND YEAR

RADIOLOGY. Lecture-demonstrations in conjunction with Departments of Pathology and Medicine. Roentgen diagnosis of bone tumors and of diseases of the chest; radio-therapy of tumors. *Eight hours.*

THIRD YEAR

RADIOLOGY. Diagnostic and therapeutic radiology. One hour per week one semester. *Sixteen hours.*

PHYSICAL THERAPY. Lectures and demonstrations. *Six hours.*

FOURTH YEAR

RADIOLOGY CONFERENCES. Weekly conferences on general radiological problems, current literature, etc. *Thirty-two hours.*

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.

HYGIENE AND PREVENTIVE MEDICINE

Professors Dalton and Moat; Drs. Foster, Speas and Manson

SECOND YEAR

HYGIENE AND PUBLIC HEALTH. Lectures and demonstrations. General sanitation, ventilation, water and milk supplies, sewage and water purification, vital statistics. *Thirty-two hours.*

THIRD YEAR

PREVENTIVE MEDICINE. Lectures and demonstrations. Epidemiology, diagnosis and control of communicable diseases and other problems of preventive medicine. *Sixty-four hours.*

ORAL HYGIENE. Lectures and demonstrations. *Sixteen hours.*

FOURTH YEAR

SECTION WORK. Small sections of students observe the work of the various divisions of the State Department of Health and Laboratory of Hygiene. These will include the Divisions of Crippled Children, Maternal and Child Welfare, Vital Statistics, and Communicable Diseases. Field trips will supplement the work in the laboratories.

MEDICINE

Professors Beecher, French, Rogers, Rood, Upton, Amidon and Ferenbaugh; Drs. Ravely, Pike, Rabinowitz, Medivetsky and Hobbs

SECOND YEAR

HISTORY TAKING AND ELEMENTARY CLINICS. *Thirty-two hours.*

PHYSICAL DIAGNOSIS (NORMAL). (a) Textbook survey. *Thirty-two hours.* (b) Demonstrations and examinations of patients, section work. *Thirty-two hours.*

Pathological Physiology Conference. *Sixteen hours.*

THIRD YEAR

PHYSICAL DIAGNOSIS (PATHOLOGICAL). (a) Textbook survey. *Thirty-two hours.* (b) Sections in practical work at the Dispensary and Hospitals. *Sixty-four hours.*

Textbook Survey, General Medicine. *Sixty-four hours.*

General Medical Clinic. *Thirty-two hours.*

Therapeutic Conferences. *Thirty-two hours.*

Therapeutic Clinic. *Thirty-two hours.*

Ward Work, in sections. Ward Rounds. *Thirty-two hours.*

Clinico-Pathological Conferences. *Sixty-four hours.*

Tropical Medicine. Lectures are supplemented by recitations, microscopic demonstrations and clinics. Diagnosis, particularly laboratory, is stressed. *Sixteen hours, second semester.*

FOURTH YEAR

The work of this year is entirely clinical and is done in sections in the Mary Fletcher Hospital, the Bishop DeGoesbriand Hospital, the Fanny Allen Hospital, the Fort Ethan Allen Hospital, at the Dispensary, in the State Institutions at Pittsford, Waterbury and Brattleboro under preceptors, and at the State Laboratory of Hygiene. The work is in charge of departmental instructors and closely supervised by the Head of the Department. The work in the special subjects is in charge of the instructors in those specialties.

OBSTETRICS

*Professors Durfee and Eastman; Drs. *B. F. Clark and Rust*

SECOND YEAR

LECTURES, RECITATIONS AND DEMONSTRATIONS. Anatomy of female pelvis and reproductive organs. Physiology of reproduction and the associated endocrinology. Normal labor. *Thirty-two hours.*

THIRD YEAR

LECTURES, RECITATIONS AND DEMONSTRATIONS. Management of normal and abnormal pregnancy and labor. Gross and microscopic pathology of the complications of pregnancy—in cooperation with the Department of Pathology. Operative obstetrics and the care of the puerperium. Both normal and abnormal labors are demonstrated on the manikin and by motion pictures. *Sixty-four hours.*

FOURTH YEAR

LECTURES, DEMONSTRATIONS AND PRACTICAL OBSTETRICS. A short series of lectures on special topics precedes the Section Work in practical obstetrics. Students attend prenatal and postnatal clinics at the Elizabeth Lund Home and the Burlington Free Dispensary. (*Eighteen hours.*) Cases of labor are attended at the Mary Fletcher Hospital, the Elizabeth Lund Home and in the Out-patient 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.

* Absent on leave.

Students are assigned to section work for a period of four weeks. A variable number of students obtain additional practical obstetrics at the Berwind Clinic in New York. These appointments are made for a period of three weeks during the summer between the third and fourth years. The character and scope of each student's work at the Berwind Clinic is reported to the Head of the Department by the Clinic authorities.

PATHOLOGY AND BACTERIOLOGY

*Professors Buttles, *James, Hartman, Ferguson and P. W. Butterfield; Dr. Robbins.*

SECOND YEAR

- I. PATHOLOGY. Lectures and recitations.—Two hours per week. *Sixty-four hours*. Laboratory.—Five hours per week, first semester and six hours per week during second semester. *One hundred seventy-six hours*.
- II. CLINICAL PATHOLOGY. Lectures and recitations.—One hour per week, second semester. *Sixteen hours*. Laboratory.—Six hours per week, second semester. *Ninety-six hours*.
- III. BACTERIOLOGY. Lectures and recitations.—Two hours per week, first semester. *Thirty-two hours*. Laboratory.—Eight hours per week, first semester. *One hundred twenty hours*.

THIRD YEAR

- I. PATHOLOGY. Recitations, lectures and laboratory.—Two hours per week. *Sixty-four hours*.
- II. CLINICAL CONFERENCE. Two hours per week throughout the year, in conjunction with the Department of Medicine.

FOURTH YEAR

- I. HOSPITAL LABORATORY. An average of twelve hours per week for two weeks for each student.
- II. AUTOPSIES. Classes or sections of classes attend autopsies at the hospital morgue. These average one or more per week and are subsequently discussed by the class.

* Absent on leave.

PHARMACOLOGY

Professors Pierce and Leonard; Dr. Davis

SECOND YEAR

The major purport of the instruction will be 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 analyses, antidotes, and standardization by bioassay, the chief work of the course will be concerned with experimental pharmacodynamics. Lectures and recitations on pharmacological and toxicological properties of drugs will be closely correlated with laboratory work. Available preparation forms and posology of drugs will be studied as the various types of medicinal agents are considered. Prescription writing exercises will be given and various types of official preparations compounded in the laboratory.

The laboratory facilities of the Department are available to qualified persons for research in Pharmacology.

Lectures and recitations. *Ninety-six hours.*

Laboratory. *Ninety-six hours.*

PHYSIOLOGY

Professors Jackson and Daggs; Dr. Sichel

FIRST AND SECOND YEARS

The first-year work begins in the second semester and includes muscle, nerve, blood, circulations, respiration, the nervous system and the special senses.

The second-year work includes digestion and excretion, internal secretion, nutrition, metabolism, body heat and reproduction.

The laboratories are open during the college year to advanced students or to those who wish to do original research.

Recitations and lectures. *First year, sixty-four hours; second year, forty-eight hours.*

Demonstrations and laboratory work. *First year, sixty-four hours; second year, forty-eight hours.*

SURGERY

*Professors Allen, Sabin, Ober, Adams, Maynard, Rees, Truax and Cudlipp; Drs. *Mackay, *Gladstone, Bellerose, Ford and Towne*

SECOND YEAR

Principles of surgery. Recitations. *Sixty-four hours.*

Practical Surgery. Bandaging, use of splints and other surgical appliances. Work with plaster of Paris. Taught in sections. *Ten hours.*

THIRD YEAR

General and Regional Surgery. *Ninety-six hours.* Fractures and dislocations. *Thirty-two hours.*

Clinical Surgery. *Thirty-two hours.*

Surgical Anatomy. *Sixteen hours.*

Clinics. One hour each week for one-half year. *Sixteen hours.*

Clinico-Pathological Conference. (Both medical and surgical.) *Sixty-four hours.*

Orthopedic Surgery. Orthopedic surgery under the direction of Doctors Ober, Maynard and Bellerose is taught by clinics and a certain amount of textbook instruction in addition to the cases demonstrated to the class from time to time.

Clinical Surgery, in sections. On six days of each week small sections of the class, taken in rotation, work at the Mary Fletcher Hospital for two hours a day, under an instructor.

FOURTH YEAR

The work of this year is entirely clinical and is done in sections in the Mary Fletcher Hospital, the Bishop DeGoesbriand Hospital, the Fanny Allen Hospital, the Fort Ethan Allen Hospital, at the Dispensary, in the State Institutions at Pittsford, Waterbury and Brattleboro, under preceptors, and at the State Laboratory of Hygiene. The work is in charge of Departmental Instructors and closely supervised by the Head of the Department. The work in special subjects is in charge of the Instructors in those specialties. One hour each week the entire class, insofar as it does not interfere with the section work of certain students, meets with the Professor of Surgery for a clinical lecture or demonstration as the case may be.

Minor Surgery. Fractures and dislocations and minor surgery. Taught in sections in wards, in amphitheatre clinics, and at the Dispensary.

Anesthesia. Each fourth-year student is given personal instruction in anesthesia under the direction of the Instructor in Anesthesia.

* Absent on leave.

SPECIAL SUBJECTS

DERMATOLOGY

Professor Traub

THIRD YEAR

Lectures and demonstrations. *Forty-eight hours.*

Lectures with projectoscope and lantern slide illustrations.

Clinics, history taking and methods of procedure in examination of patients and demonstrations of all the more common skin diseases. *Twenty-four hours.*

FOURTH YEAR

Clinical demonstrations of the common skin diseases. *Forty-eight hours.*

MEDICAL JURISPRUDENCE

Judge Grout

THIRD YEAR

Right to practice, contractual relations between physician and patient, the law of malpractice, legal aspects of the physician's duties under public health laws, autopsies and reports thereon, medico-legal aspects of certain crimes, expert testimony, insanity, judicial toxicological investigations.

Lectures. *Sixteen hours, first semester.*

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 222.

NEUROLOGY

Professor Petersen

THIRD YEAR

Lectures, recitations and clinics. *Thirty-two hours.*

FOURTH YEAR

Clinics. *Thirty-two hours.*

PSYCHIATRY

Professors O'Neil and Bonner

THIRD YEAR

Psychobiological approach to the problem of mental disease. Descriptive psychology, incidence and causes of mental disease, symptomatology, classification of mental diseases, diagnosis and treatment of mental diseases. History taking. Examination procedures. Commitment of insane. *Twenty-two hours.*

Professor O'Neil

Social Psychiatry. *Ten hours.*

Professor Bonner

FOURTH YEAR

Each student spends two weeks at the Vermont State Hospital. Staff meetings, Clinics, Ward work, examination of patients, under the supervision of Doctor O'Neil.

TOXICOLOGY

Professor Whitney

SECOND YEAR

The course consists of discussions and recitations one hour a week. 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, etc.

Recitations and discussions. *Sixteen hours, second semester.*

UROLOGY AND VENEREAL DISEASES

Professor Townsend; Dr. Flagg

THIRD YEAR

Weekly lectures in Urology and Sexology. *Thirty-two hours.*

FOURTH YEAR

Clinics once a week; ward work and dispensary work throughout the year.

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

	<i>Degree</i>
Classical	Bachelor of Arts
Literary-Scientific	Bachelor of Philosophy
Social Science	Bachelor of Philosophy
General Science and Pre-Medical	Bachelor of Science

Specialized Curricula

	<i>Degree</i>
Chemistry	Bachelor of Science in Chemistry
Business, Secretarial, and Commercial Teaching	Bachelor of Science in Commerce and Economics
Secondary Education	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 Manu-

factures, 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, Mathematics 1, 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.

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.

Four courses in 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
Mathematics 1	4	4
French 1 or 3, or German 1 or 2	3	3
Greek A or 1	4-3	4-3
Latin A or B or 1	3	3
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
Mathematics 1	4	4
French 1 or 3, or German 1 or 2	3	3
German 1 or 3, or French 1 or 3, or a Science...	3-5	3-5
Latin A or B or 1	3	3
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.

An approved major and related minor.

Economics 1, History 3 and Political Science 1.

Two courses chosen from French 3, German 2, Latin 1 and Spanish 2.

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 language	3	3
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.

Two general courses from Economics, History, Political Science, Philosophy and Psychology.

Also, *in addition to the foregoing, either* a second minor in French, German, or Spanish; *or* a minor in a Social Science Department; *or* two courses from the Science-Mathematics group.

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	5	5
Botany 2 or Geology 1 or Zoology 2	4	4
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 Bachelor 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 is based upon the group requirements of General Science. It also includes those courses which have been recommended by the College of Medicine. English is required in each year. In Chemistry, Physics, and Zoology credits in excess of those suggested by the American Medical Association are included. Mathematics 1, two years of French or German, and a course in Psychology are required. For men eight hours of credit in Military Science must be completed. Students who complete three years and decide to enroll for a senior year must enroll in Mathematics 2 (Calculus). For men enrolled in the Pre-Medical curriculum the requirements are as follows: Freshman year, 42 hours; Sophomore year, 38 hours; Junior year, 32 to 36 hours. For women the totals are four hours less in each of the first two years, due to exemption from Military Science. The men's minimum of unpledged degree credit at the end of the third year, which includes eight hours of Military Science and four hours of Physical Education, is 108 semester hours. For women this minimum is 100. Students who have fewer credits, or who lack any required subject, are not eligible to apply for admission to the College of Medicine.

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	5	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
Physical and Quantitative Chemistry	3 or 4	3 or 4
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
Chemistry 9 and 10 (Organic)	3	3
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 $2\frac{0}{8}$, 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 ² / 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, increases 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 or 21, 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 7, American Literature	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 6, Shakespeare	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 or 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	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 INDUSTRIAL EDUCATION CURRICULUM

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 courses in the Trades and Industries in secondary schools.

The first two years require regular enrollment in the College of Engineering, the preferred curriculum being Mechanical Engineering. In the last two years the registration is in the Department of Education.

The degree, Bachelor of Science in Industrial Education, is awarded by the University of Vermont and State Agricultural College on recom-

mentation of the Head of the Department of Education and the Senate Committee on Degrees.

Students enrolled in this Curriculum are subject to the regular fees for laboratory courses, student activities and tuition.

THE INDUSTRIAL EDUCATION CURRICULUM

THE FRESHMAN YEAR

(See Mechanical Engineering.)

THE SOPHOMORE YEAR

(See Mechanical Engineering).

THE JUNIOR YEAR

1ST HF.

2ND HF.

Psychology 1, General	3	3
Mechanical Engineering 1, Heat-Power	3	...
Shop Practice 2-3, Forge and Lathe Work	2	2
Mechanical Engineering 13, Machine Drawing..	3	3
Electrical Engineering 10, General	3	3
Engineering Mathematics 3, Mechanics	3	3
Civil Engineering 8-9, Materials of Construc- tion	1	1
Education 1, Principles	3	...
Education 401, Principles of Vocational Edu- cation	1	...
Education 4, Adolescent Psychology .....	...	3

THE SENIOR YEAR

1ST HF.

2ND HF.

General Engineering 2, Economics	3	3
Mechanical Engineering 9, Internal Combustion Engines	3	3
Shop Practice 4, Machine Tools	3	3
Education 338, Applied Art	2	2
Education 6, High School Administration .....	...	3
Education 402, Methods of Trade Teaching.....	1	1
Education 403, Trade Analysis	1	1
Education 404, Trade Instruction Material	1	1
Education 405, Teaching Industrial Arts	2	2
Education 406, Observation and Practice Teach- ing .....	...	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 certain general subjects such as Mathematics, Chemistry, Physics, Mechanical Drawing, Descriptive Geometry, Elements of Electrical Engineering, Mechanics, Materials of Construction, Hydraulics, Economics and English.

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
Mathematics-Mechanics 4, Solid Analytics and Elementary Calculus .....	...	2
Engineering Drawing 1-2, Mechanical	3	2
Chemistry 1 or 21, Inorganic	5	4
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction	1	1
Physical Education 1	1	1
Military Science 1 (Men)	2	2

The College of Engineering

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THE SOPHOMORE YEAR

1ST HF.

2ND HF.

Mathematics-Mechanics 5, Differential and Integral Calculus	3	3
Mathematics-Mechanics 6, Statics .....	...	3
Engineering Drawing 3, Descriptive Geometry	3	...
Physics 1, General Physics	5	5
English 2, Literature	2	2
Civil Engineering 1, Plane Surveying	4	...
Civil Engineering 2, Route Surveying .....	...	4
Physical Education 2	1	1
Military Science 2 (Men)	2	2

Summer Engineering Camp (C. E. 3), 4 weeks, 3 hours credit.

THE JUNIOR YEAR

1ST HF.

2ND HF.

Mathematics-Mechanics 7, Mechanics of Ma- terials	3	...
Mathematics-Mechanics 8, Kinetics .....	...	3
Civil Engineering 4, Graphic Statics	3	...
Civil Engineering 5, Bridge Stresses .....	...	3
Electrical Engineering 10, General	3	3
Civil Engineering 8, Materials of Construction	1	...
Civil Engineering 9, Materials Laboratory .....	...	1
Civil Engineering 6, Mapping	2	...
General Engineering 2, Economics	3	3
*Restricted Electives	3	5

Summer Engineering Camp (C. E. 10), 4 weeks, 3 hours credit.

THE SENIOR YEAR

1ST HF.

2ND HF.

Civil Engineering 18, Hydraulics	3	...
Civil Engineering 19, Hydraulics Laboratory.....	1	...
Civil Engineering 16, Reinforced Concrete.....	2	...
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 Specifi- cations .....	...	2
Civil Engineering 20, Highway Engineering.....	...	3
Civil Engineering 15, Engineering Construc- tion .....	...	3
Geology 3, Engineering Geology	3	...
*Restricted Electives .....	...	3

* See page 248.

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
Mathematics-Mechanics 4, Solid Analytics and Elementary Calculus .....	...	2
Engineering Drawing 1-2, Mechanical	3	2
Chemistry 1 or 21, Inorganic	5	4
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction	1	1
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 5, Differential and Integral Calculus	3	3
Mathematics-Mechanics 6, Statics .....	...	3
Engineering Drawing 3, Descriptive Geometry	3	...
Physics 1, General	5	5
Electrical Engineering 1, Elements	2	2
English 2, Literature	2	2
Mechanical Engineering 10, Machine Drawing	2	...
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE JUNIOR YEAR

	1ST HF.	2ND HF.
Mathematics-Mechanics 7, Mechanics of Ma- terials	3	...
Mathematics-Mechanics 8, Kinetics .....	...	3
Electrical Engineering 2, Direct Current Machines	5	...
Electrical Engineering 5, Alternating Current Theory .....	...	5
Electrical Engineering 3, Direct Current Labo- ratory	2	2
Civil Engineering 8, Materials of Construction	1	...
Civil Engineering 9, Materials Laboratory.....	...	1
General Engineering 2, Economics	3	3
Mechanical Engineering 12, Heat Power En- gineering	3	3
Shop Practice 2-3, Forging and Lathe Work....	1	1
*Restricted Electives .....	...	...

* See page 248.

THE SENIOR YEAR	1ST HF.	2ND HF.
General Engineering 3, Contracts and Specifications .....	...	2
Civil Engineering 18, Hydraulics	3	...
Civil Engineering 19, Hydraulics Laboratory.....	1	...
Electrical Engineering 17, Alternating Current Machines	5	3
Electrical Engineering 8, Power Transmission...	...	3
Electrical Engineering 4, Communication.....	3	3
Electrical Engineering 6, Alternating Current Laboratory	2	2
Electrical Engineering 11-18, Electronics and Laboratory	2	1
*Restricted Electives	3	6

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
Mathematics-Mechanics 4, Solid Analytics and Elementary Calculus .....	...	2
Engineering Drawing 1-2, Mechanical	3	2
Chemistry 1 or 21, Inorganic	5	4
English 1, Composition and Rhetoric	2	2
General Engineering 1, Introduction	1	1
Physical Education 1	1	1
Military Science 1 (Men)	2	2

THE SOPHOMORE YEAR	1ST HF.	2ND HF.
Mathematics-Mechanics 5, Differential and Integral Calculus	3	3
Mathematics-Mechanics 6, Statics .....	...	3
Engineering Drawing 3, Descriptive Geometry	3	...
Physics 1, General	5	5
English 2, Literature	2	2
Shop Practice 1, Pattern Making	2	2
Mechanical Engineering 10, Machine Drawing	2	...
Mechanical Engineering 11, Mechanism.....	...	2
Physical Education 2	1	1
Military Science 2 (Men)	2	2

* See page 249.

THE JUNIOR YEAR

1ST HF.

2ND HF.

Mathematics-Mechanics 7, Mechanics of Materials	3	...
Mathematics-Mechanics 8, Kinetics .....	...	3
Mechanical Engineering 1, Heat Power Eng.....	3	...
Mechanical Engineering 2, Thermodynamics.....	...	3
Civil Engineering 8, Materials of Construction	1	...
Civil Engineering 9, Materials Laboratory.....	...	1
Shop Practice 2-3, Forging and Lathe Work	2	2
Mechanical Engineering 13, Eng. Drawing.....	3	3
General Engineering 2, Economics	3	3
Electrical Engineering 10, General	3	3
*Restricted Electives .....	...	...

THE SENIOR YEAR

1ST HF.

2ND HF.

Civil Engineering 18, Hydraulics	3	...
Civil Engineering 19, Hydraulics Laboratory.....	1	...
Mechanical Engineering 5, Machine Design.....	3	3
Mechanical Engineering 3, Steam Engines and Turbines	3	...
Mechanical Engineering 4, Industrial Eng. ....	...	3
Mechanical Engineering 6, Steam Eng. Lab.....	3	...
Mechanical Engineering 7, Mech. Eng. Lab.....	...	3
Shop Practice 4, Machine Tools	3	3
Civil Engineering 24, Surveying	2	...
*Restricted Electives .....	...	6

RESTRICTED ELECTIVES

For Civil Engineering Juniors:

To be chosen from C. E. /7, R. R. Engineering, 2 hours; C. E. /21, Water Power Engineering, 3 hours; C. E. 22²³, Geodesy, 6 hours; Engineering Math. 104, Advanced, 6 hours; Mil. Sci. 3, Advanced, 6 hours; Pol. Sci. 1, American Government, 6 hours.

For Civil Engineering Seniors:

To be chosen from C. E. /7, R. R. Engineering, 2 hours; C. E. /21, Water Power, 3 hours; C. E. 25, Advanced Geodesy, 6 hours; Engineering Math. 104, Advanced, 6 hours; Geol. /5, Engineering Geology, 3 hours; Political Science, elective, 6 hours; Civil Engineering Thesis, 3 hours; Mil. Sci. 4, Advanced, 6 hours.

For Electrical Engineering Juniors:

To be chosen from C. E. 24/, Surveying, 2 hours; Engineering Math. 104, Advanced, 6 hours; Mil. Sci. 3, Advanced, 6 hours; Physics 104, Electricity and Magnetism, 6 hours; Pol. Sci. 1, American Government, 6 hours.

* See page 249.

For Electrical Engineering Seniors:

To be chosen from E. E. /9, Power Stations, 3 hours; E. E. /12, Transient Phenomena, 3 hours; E. E. /13, Adv. Communication Engineering, 3 hours; E. E. 16, Special Topics, 6 hours; Engineering Mathematics 104, Advanced, 6 hours; Mil. Sci. 4, Advanced, 6 hours; M. E. 6/, Steam Engineering Lab., 3 hours:

For Mechanical Engineering Juniors:

To be chosen from C. E. /21, Water Power Engineering, 3 hours; Engineering Math. 104, Advanced, 6 hours; M. E. 9, Internal Combustion Engines, 6 hours; M. E. 8, Heating and Ventilating, 6 hours; Mil. Sci. 3; Advanced, 6 hours; Pol. Sci. 1, American Government, 6 hours.

For Mechanical Engineering Seniors:

To be chosen from C. E. /15, Engineering Construction, 3 hours; C. E. /21, Water Power Engineering, 3 hours; Economics 8/, Statistics, 3 hours; Economics 20/, Business Law, 3 hours; E. E. /9, Power Stations, 3 hours; Mechanical Engineering Thesis, 3 hours; Engineering Math. 104, Advanced, 6 hours; M. E. 8, Heating and Ventilating, 6 hours; M. E. 9, Internal Combustion Engines, 6 hours; Mil. Sci. 4, Advanced, 6 hours.

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 duty is to conduct research in Agriculture and Home Economics, to administer certain regulatory statutes, and to publish the results of such work.

The Agricultural Extension Service was established by an act of the State Legislature in 1912. It benefits by sundry State and Federal appropriations, the latter through the instrumentality of the Smith-Lever Act of 1914, the Capper-Ketcham Act of 1928 and the Bankhead-Jones Act of 1935. Its especial function is to improve agricultural and home practice by demonstration and by personal work throughout the State.

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.

Aside from these subjects, the semester hours for graduation are as follows: cultural or humanistic courses 26, science courses 38, technical agriculture 56, and free electives 12. The first two years are nearly identical in all the five options.

AGRICULTURAL CURRICULA

THE FRESHMAN YEAR	1ST HF.	2ND HF.
Botany 3, Agricultural Botany	3	3
Chemistry 23, General Inorganic	4	4
English 1, Composition and Rhetoric	2	2
Mathematics 1, Algebra and Trigonometry.....	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, Literature	2	2
Economics 1, Elementary	3	3
Animal and Dairy Husbandry 3, Live Stock.....	2	3
Botany 11, Microbiology	4	...
Chemistry 15, Agricultural Organic .....	...	4
Agronomy 2, Field Crops	3	...
Animal and Dairy Husbandry 1, Stock Feeding .....	...	3
*Restricted Elective	3	3
Physical Education 2	1	1
Military Science 2 (Men)	2	2

THE TEACHING OF AGRICULTURE OPTION

THE JUNIOR YEAR

1ST HF.

2ND HF.

Agronomy 1, Soils and Soil Management.....	3	3
Poultry Husbandry 1, Introductory .....	...	3
Forestry 2, Woodlot Forestry	3	3
Education 1, Principles of Instruction	3	...
Horticulture $\frac{4}{5}$, Floriculture and Greenhouse Management (or Hort. 2)	3	3
Agricultural Education 2, Principles .....	...	2
Restricted Electives	4	2

Minimum credit, for this year, 32 semester hours.

THE SENIOR YEAR

1ST HF.

2ND HF.

Agricultural Economics 1, Farm Management	3	3
Agr'l Philosophy 1, Agr. and Civilization.....	...	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Agricultural Engineering 2, Farm Electricity...	...	3
Agr'l Edu. 3-4, Methods and Practice Teaching	3	2
Education 6, High School Administration.....	...	3
Horticulture 2, Adv. Pomology (or Hort. $\frac{4}{5}$)	3	...
Restricted Electives	3	...
†Agricultural Education 5, Student Teaching.....	...	...

Minimum credit, for this year, 32 semester hours.

* This elective is restricted to Botany 4, Physiology, 6 hours, for *Plant Industry*, and to Animal Husbandry 8-9, Dairy Chemistry and Bacteriology, 6 hours, for *Dairy Manufactures*.

† In either semester, credit 3 hours.

THE PLANT INDUSTRY OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Poultry Husbandry 1, Introductory .....	...	3
Forestry 2, Woodlot Forestry	3	3
Horticulture 2, Adv. Pomology (or Hort. $\frac{4}{5}$)	3	...
Zoology 8, Entomology (or Agron. 3) .....	...	2
Genetics 1, Principles .....	...	3
Restricted Electives	7	2

Minimum credit, for this year, 32 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics....	3	...
Agronomy 3 (Adv. Field Crops) (or Zool. 8)	3	...
Horticulture $\frac{4}{5}$, Floriculture and Greenhouse Management (or Hort. 2)	3	3
Restricted Electives	5	5

Minimum credit, for this year, 34 semester hours.

THE DAIRY PRODUCTION OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Poultry Husbandry 1, Introductory.....	...	3
Forestry 2, Woodlot Forestry	3	3
Genetics 1, Principles .....	...	3
Animal and Dairy Husbandry 7, Horses, Sheep, Swine (or A. D. H. 6)	3	...
Animal and Dairy Husbandry 5, Advanced Stock Judging .....	...	2
Restricted Electives	7	2

Minimum credit, for this year, 32 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics.....	3	...
Animal and Dairy Husbandry 6, Herd Management (or A. D. H. 7)	3	...
Restricted Electives	8	8

Minimum credit, for this year, 34 semester hours.

THE DAIRY MANUFACTURES OPTION

THE JUNIOR YEAR	1ST HF.	2ND HF.
Agronomy 1, Soils and Soil Management.....	3	3
Poultry Husbandry 1, Introductory .....	...	3
Animal and Dairy Husbandry $1\frac{3}{12}$, Market Milk, Cheese (or A. D. H. $1\frac{4}{11}$)	3	3
Animal and Dairy Husbandry 15, Judging Dairy Products .....	...	2
Restricted Electives	10	5

Minimum credit, for this year, 32 semester hours.

Animal and Dairy Husbandry 18, Dairy Plant Operation and Management, two weeks, credit 1 semester hour.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics...	3	...
Animal and Dairy Husbandry $1\frac{4}{11}$, Ice Cream and Butter (or A. D. H. $1\frac{3}{12}$)	3	3
Restricted Electives	8	5

Minimum credit, for this year, 34 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 3, Cooperation and Credit (or Ag. Ec. 4)	3	...
Restricted Electives	7	10

Minimum credit, for this year, 32 semester hours.

THE SENIOR YEAR	1ST HF.	2ND HF.
Agricultural Economics 1, Farm Management	3	3
Agricultural Philosophy 1, Agriculture and Civilization .....	...	3
Agricultural Economics 2, Marketing .....	...	3
Agricultural Engineering 1, Farm Mechanics..	3	...
Agricultural Economics 4, Public Problems (or Ag. Ec. 3)	3	...
Restricted Electives	8	8

Minimum credit, for this year, 34 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, Composition and Rhetoric	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, 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 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.

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 YEARS' CURRICULUM

The curriculum has been arranged so that the study of the several branches of Medicine is taken up in a systematic way.

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.

The 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, in the hospitals, in the Dispensary and in several public State institutions with which the College has connection.

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, 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 and Hygiene. Laboratory courses are given in Anatomy, Pathological Histology, Clinical Pathology, Physiology and Bacteriology.

The work of the Third Year includes Surgery, Obstetrics, Special Pathology, Therapeutics and the various special subjects of Medicine and Surgery.

There are practical courses in Physical Diagnosis, Minor Surgery and Obstetrics with the manikin. The students attend surgical and medical clinics, in which they are instructed in the methods of investigating disease, in properly interpreting the symptoms of disease, in the principles of differential diagnosis and in the indications for treatment.

The Fourth Year is devoted largely to the study of diagnosis and the treatment of disease, the larger part of the work being given at the general hospitals, the Dispensary and under preceptors, where students examine patients, make diagnosis and outline treatment.

The class is divided into sections, usually of four students each, which are assigned to various services in rotation. The 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 Elizabeth Lund Home; out-patient service and city physicians; four weeks with a preceptor, a general practitioner in the country, and two weeks of intensive training in each of four public institutions.

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.

One two-hour period each week is devoted to a clinical conference for which students prepare and present all possible data, clinical and pathological, upon some case which they have studied, usually one which has come to autopsy. These exercises are held under the joint supervision of the departments of Medicine, Surgery and Pathology and cases studied are thoroughly discussed. This conference is attended by the Third Year students as well as by those of the Fourth Year class who are not on Extra-mural Service.

CLINICAL TEACHING AND FACILITIES

The department of clinical teaching is under the direct supervision of the Professors of Medicine and Surgery, who have an able corps of clinical assistants.

The work in clinical instruction is thoroughly systematized. In the hospital wards the Senior students, under the direction of an instructor, examine patients, write the history of the cases, make laboratory examinations indicated, make diagnoses, and suggest treatment.

The clinical facilities include the Mary Fletcher, Bishop DeGoesbriand, Fort Ethan Allen and Fanny Allen Hospitals with approximately four hundred beds; the Laboratory of the State Board of Health and the Free Dispensary; two orphans' homes with approximately five hundred beds; the Weeks School, four hundred beds; Vermont Sanatorium, seventy-six beds; Caverly Preventorium, forty-five beds; Vermont State Hospital for the Insane, one thousand and fifty beds; Brandon State School, three hundred beds.

The facilities of the St. Albans Hospital, and the Retreat at Brattleboro are also available.

GRADUATION

Candidates for the degree of Doctor of Medicine must have met the requirement of this College in regard to preliminary education and must have attended and satisfactorily completed the prescribed work of four yearly sessions or courses of instruction in Medicine, of at least thirty-two weeks each. On completion of the educational requirements the degree of Doctor of Medicine will be conferred upon candidates of good moral character who are at least twenty-one years old.

Register, 1938-1939

RESIDENT GRADUATE STUDENTS

*Theis Eleanor Aitken, B.S. in CHEM. (VERMONT), 32 Nash Pl., Bethel.

Max Arthur Bailey, B.S. (VERMONT), *Dairy Manufacturing*, 416 Pearl St., Burlington.

†Charles Wesley Barney, B.S. (SYRACUSE), *Forestry*, 243 Colchester Ave., Cuba, N. Y.

Robert Hamilton Blewitt, A.B. (BROWN), *History*, 24 Hungerford St., Waterbury, Conn.

Frank MacLlewellyn Bryan, A.B. (YALE), *History*, Montpelier.

Basil Harte Candon, B.S. (FORDHAM), *Histology*, 272 Colchester Ave., Pittsford.

*Janice Williams Carkin, B.A. (OBERLIN), *Education*, 10 Hungerford St., Burlington.

†Robert McCrillis Carter, Jr., A.B. (WISCONSIN), *Agricultural Economics, Experiment Station Annex*, Fairfax.

*Mary Cleave, A.B. (SMITH), *English*, 75 S. Prospect St., Washington, D. C.

Harrison Aldrich Cooke, Jr., A.B. (DARTMOUTH), *Zoology*, 231 S. Union St., Burlington.

Frank Alvin Cummings, B.S. (VERMONT), *English*, 37 N. Prospect St., Bradford.

*Robert Powers Davison, B.S. (VERMONT), *Agricultural Economics*, 474 S. Union St., Burlington.

*Roland John Delfausse, PH.B. (VERMONT), *Economics*, 161 Pearl St., Burlington.

Clinton Willard Demeritt, B.S. (MIDDLEBURY), *Education*, Waterbury.

*Jack Edmund Doan, B.S.A. (ONTARIO AGRICULTURAL COLLEGE), *Agronomy*, 29 School St., Norwich, Ont., Can.

†John Durrance Dodd, B.S. (SYRACUSE), *Cytology*, 243 Colchester Ave., Tuxedo Park, N. Y.

*Arnold Perkins Drew, A.B. (MCGILL), *English*, 11 N. Willard St., Richford.

Doris Muriel Fife, A.B. (MIDDLEBURY), *Education*, 56 University Ter., Middlebury.

Murray Willbur Foote, B.S. (VERMONT), *Biochemistry*, Charlotte.

*Paul Fredric Froeschle, B.S. (ROCHESTER), *Biochemistry*, 64 Greene St., Rochester, N. Y.

‡William Gray Grieve, (VERMONT), *Philosophy*, 439 College St., Waterbury, Conn.

Dorothy Bradford Holmes, A.B. (VERMONT), *English*, 81 S. Willard St., Plymouth, Mass.

†Robert Jenness, B.S. (NEW HAMPSHIRE), *Dairy Manufacturing*, 60 Colchester Ave., Dover, N. H.

*Frances May Johnson, B.S. (NEW JERSEY COLLEGE FOR WOMEN), *Botany*, 407 Colchester Ave., Stockton, N. J.

Esther Appleton Knowlton, B.S. ED. (SALEM STATE TEACHERS' COLLEGE), *Education*, 403 College St., Hamilton, Mass.

Margaret Olive Columbia Krogman, B.S. (NEW YORK UNIVERSITY), *Education*, 97 Bank St., Burlington.

†Joseph Gorden Leeder, B.S. (OHIO STATE), *Dairy Manufacturing*, 60 Colchester Ave., Columbus, Ohio.

Mrs. Sylvia Margulis Levine, B.S. (VERMONT), *English*, 171 N. Winooski Ave., Burlington.

Ralph Caldwell McWilliams, B.S. (PENNSYLVANIA STATE COLLEGE), *Dairy Husbandry*, St. Albans.

John Henry Martin, B.S. (MIDDLEBURY), *History*, 61 N. Prospect St., Burlington.

Florence Virginia Mason, A.B. (MT. HOLYOKE), *English*, 333 S. Prospect St., Peru, N. Y.

* Research Fellow.

† Experiment Station Fellow.

‡ PH.B. degree to be awarded June, 1939.

- Albert Benson Meservy, B.S. (VERMONT), *Biochemistry*, 39 Brookes Ave., Belfast, Me.
 Alexander Adrian Morrisette, PH.B. (VERMONT), *French*, 163 Loomis St., Burlington.
 †Werner Otto Mueller, B.S. (CONNECTICUT STATE), *Agronomy*, 151 Maple St., Goshen, Conn.
 John Erwin Newton, A.B. (DARTMOUTH), *History*, 355 S. Union St., W. Hartford.
 †Dorothy Dale Nuetzman, B.S. (NEBRASKA), *Home Economics*, 443 S. Prospect St., Lincoln, Neb.
 †Clarence Vinton Plath, B.S. (NORTH DAKOTA AGRICULTURAL COLLEGE), *Agronomy*, 29 School St., Fargo, N. D.
 Paul Charles Rand, B.S. (VERMONT), *Physics*, 38 Loomis St., Burlington.
 †William Ray Ratledge, B.S. (UNIVERSITY OF DELAWARE), *Botany*, 307 Colchester Ave., Wilmington, Del.
 Jean Longfellow Schoppe, A.B. (STANFORD), *English*, 305 Main St., Seattle, Wash.
 William J. Simcox, B.S. (VERMONT), *Biochemistry*, 39 Brookes Ave., S. Strafford.
 †Edwin Joseph Weatherby, B.S. (CORNELL), *Dairy Husbandry*, 60 Colchester Ave., Sinclairville, N. Y.
 Reuben Robert Zile, B.S. (CORNELL), *Forestry*, 143 N. Prospect St., Burlington.

* NON-RESIDENT GRADUATE STUDENTS

- Crawford McGinnis Adams B.S. (VERMONT), *Education*, Groton.
 Stella Marion Adams, B.S. (NEW HAMPSHIRE), *Education*, Hebron, N. H.
 Mildred Elizabeth Akins, B.S. (VERMONT), *Education*, Burlington.
 Clarence Frank Amsden, B.S. (VERMONT), *Education*, Greensboro.
 Homer Butler Ashland, PH.B. (VERMONT), *Education*, Burlington.
 Mary A. Barrett, A.B. (TRINITY), *Education*, Hydeville.
 Louis William Batchelder, B.S. (VERMONT), *Education*, Hartford, Conn.
 Leila May Bates, PH.B. (VERMONT), *Education*, Richmond.
 Nila Elizabeth Bates, B.S. (WEST CHESTER STATE TEACHERS' COLLEGE), *English*, W. Chester, Pa.
 Barbara Reed Bicknell, A.B. (WELLESLEY), *Mathematics*, S. Weymouth, Mass.
 Guy Franklin Blake, A.B. (UNIVERSITY OF PENNSYLVANIA), *Education*, Norwalk, Conn.
 Lyman Watts Bole, B.S. (CORNELL UNIVERSITY), *Education*, Bradford.
 Charles Phillips Boright, B.S. (VERMONT), *English*, Newport.
 Gertrude Elizabeth Branon, PH.B. (VERMONT), *French*, Burlington.
 Eugene George Burnkrant, A.B. (DARTMOUTH), *Education*, Marshfield, Wis.
 Helen Spinney Carter, B.A. (WISCONSIN), *Education*, W. Burke.
 William H. Carter, A.B. (MIDDLEBURY), *Education*, Vergennes.
 Charles Elroy Chase, B.S. (NEW HAMPSHIRE), *Education*, Colebrook, N. H.
 Belle Louise Church, A.B. (VERMONT), *Mathematics*, Richmond.
 Robert Wellington Chutter, B.S. (VERMONT), *Education*, Proctor.
 Elizabeth Martha Collins, B.S. (VERMONT), *History*, Burlington.
 John Thomas Conway, B.S. (VERMONT), *Education*, New London, Conn.
 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.
 John Yale Crouter, B.S. (NEW YORK UNIVERSITY), *English*, Providence, R. I.
 Lorraine Bertha Cushman, A.B. (N. Y. ST. COL. FOR TEACHERS), *Science*, Bolton, Landing, N. Y.
 Jessie Evelyn Dayton, A.B. (HOOD), *Education*, Basking Ridge, N. J.

* Candidates for Master's Degree by attendance at University of Vermont Summer Sessions.

† Experiment Station Fellow.

- Mary Louise Dec, A.B. (COLLEGE OF MT. ST. VINCENT), *English*, Hancock, Mass.
 George Vance Drabble, A.B. (BATES), *Education*, Rochester.
 Stella Hughes Durkee, B.E. (CASTLETON), *Education*, Castleton.
 Grace Margaret Durling, B.S. (TEMPLE UNIVERSITY), *Education*, Elizabeth, N. J.
 John Nelson Erickson, B.S. (COLBY), *Education*, Northfield.
 Lenore M. Farnham, B.A. (HEIDELBERG), *History*, Napoleon, Ohio.
 Madeline Mary Flynn, A.B. (COLLEGE OF ST. ROSE), *English*, Rutland.
 Elizabeth Louise Fox, B.S. (VERMONT), *Education*, New Britain, Conn.
 Marion Waters Fox, B.S. (GLASSBORO, N. J., TEACHERS' COLLEGE), *Education*, Atlantic City, N. J.
 Ruth Evelyn French, PH.B. (VERMONT), *English*, Proctor.
 Ruth M. Gabler, B.S. (SIMMONS), *Education*, Holyoke, Mass.
 Jay Steward Garvin, A.B. (WESTMINSTER), *Education*, S. Ryegate.
 Gordon Horatio Gates, B.S. (VERMONT), *Education*, Middlebury.
 Ruth Edna Geffken, B.E. (TEACHERS COLLEGE OF CONNECTICUT), *Education*, Schenectady, N. Y.
 Amy Ellan Goodell, B.S. (MIDDLEBURY), *Political Science*, Barre.
 George Winthrop Goodrich, B.S. (NEW HAMPSHIRE), *Education*, Stowe.
 Porter Claude Greene, B.S. (VERMONT), *Education*, New London, Conn.
 Leon Exephre Hamel, ED.B. (KEENE NORMAL), *Education*, Franklin, N. H.
 Guy Edward Harrington, B.S. (BOSTON UNIVERSITY), *Education*, Derby.
 Chester Pilgrim Hartford, B.S. (NORWICH), *Education*, Northfield.
 Irene Mary Harvey, B.A. (TRINITY), *French*, Burlington.
 Allan Jay Heath, B.S. (MASSACHUSETTS STATE COLLEGE), *Education*, Newfane.
 Leon Nathan Hill, B.S. IN ED. (VERMONT), *Education*, Chelsea.
 Francis N. Hinchey, PH.B. (YALE), *Education*, Rutland.
 Katherine Culliney Hinchey, A.B. (COLLEGE OF ST. ROSE), *Education*, Rutland.
 Helen Joyce Hobbs, A.B. (COLBY), *History*, Rochester.
 Harry F. Holder, B.P.E. (SPRINGFIELD), *Education*, Ludlow.
 Eleanor Harte Holleran, A.B. (BARNARD), *History*, Fair Haven.
 Adrian Emery Holmes, B.B.A. (BOSTON UNIVERSITY), *Education*, Burlington.
 A. Weidon House, B.S. (NORWICH), *Education*, Northfield.
 Harriet Howard, B.S. (VERMONT), *Mathematics*, Burlington.
 Irwin Holden Hoxie, B.S. (VERMONT), *Education*, Peacham.
 Homer Elijah Hunt, A.B. (BROWN), *Education*, St. Albans.
 Mildred Harriet Huntley, PH.B. (VERMONT), *History*, Fairfax.
 Cora Alice Hutchins, B.S. (VERMONT), *Mathematics*, Burlington.
 Francis Smith Irons, A.B. (MIDDLEBURY), *Education*, Bennington.
 Orson Wilbur Jay, PH.B. (VERMONT), *Education*, Morrisville.
 George Raymond Jenkins, B.S. (MIDDLEBURY), *Education*, Hardwick.
 Olufa Merica Jones, PH.B. (VERMONT), *History*, Burlington.
 Jessie Axtell Judd, A.B. (SMITH), *Latin*, Bellows Falls.
 Leo Francis Keefe, A.B. (LEHIGH), *Education*, Rutland.
 Charles Irvan Keelan, A.B. (VERMONT), *Education*, Montgomery.
 Beth M. Kehler, A.B. (FLORIDA STATE COLLEGE FOR WOMEN), *History*, St. Petersburg, Fla.
 Harry Arthur Keniston, B.E. (VERMONT), *Education*, St. Johnsbury.
 Bettina King, B.S. (BRIDGEWATER STATE TEACHERS' COLLEGE), *English*, Melrose, Mass.
 Thomas Blake Langley, B.S. (COLBY), *Education*, Blue Hill, Me.
 Albert Davis Lawton, A.B. (DARTMOUTH), *Education*, Rochester.
 Walter Roy LeBaron, B.S. (VERMONT), *Education*, Hinesburg.
 Wilfred Avery Leslie, B.S. (CONNECTICUT STATE), *Education*, W. Charleston.
 Margaret Anne Levarn, B.S. (VERMONT), *Education*, Montpelier.

- Ruth Marie McAuliffe, B.LIT. (NEW ROCHELLE), *English*, Burlington.
 Josiah Small McCann, A.B. (BATES), *Education*, St. Albans.
 Robert Harry McIntyre, A.B. (TEMPLE), *Education*, Hershey, Pa.
 George Matheson MacKenzie, B.S. (VERMONT), *Education*, Claremont N. H.
 Josephine H. McLouth, B.S. (WILLIAM SMITH COLLEGE), *History*, Shortsville, N. Y.
 George Magrath, A.B. (DARTMOUTH), *Education*, Whitinsville, Mass.
 Marion Rhoda Manchester, A.B. (EASTERN NAZARENE COLLEGE), *English*, Johnson.
 Arthur F. Marshall, LL.B. (BOSTON UNIVERSITY), *Education*, Lynn, Mass.
 Burns Edward Martin, A.B. (ST. MICHAEL'S), *Education*, Rutland.
 H. Proctor Martin, A.B. (DARTMOUTH), *Education*, Niagara Falls, N. Y.
 Marion A. Martin, A.B. (UNIVERSITY OF ILLINOIS), *Education*, Louisville, Ky.
 Clyde Andrew Maxfield, B.S. IN ED. (VERMONT), *Education*, Post Mills.
 Marjorie Mead, B.S. (RUSSELL SAGE), *Education*, Kingston, N. Y.
 Solymn Donald Miner, A.B. (MIDDLEBURY), *Education*, Orwell.
 Edgar August Moberg, A.B. (CLARK), *Education*, Worcester, Mass.
 Harry Nichols Montague, B.S. (VERMONT), *Education*, N. Bennington.
 John Millyn Moore, B.S. (VERMONT), *Education*, Barre.
 Chandler Benjamin Mosher, B.S. (COLBY), *Education*, Bradford.
 Harold William Muggleston, A.B. (NEW HAMPSHIRE), *Education*, Deep River, Conn.
 Ruth Mary Mullin, PH.B. (VERMONT), *French*, Proctor.
 John Norman Murray, A.B. (CEDARVILLE), *Latin*, Randolph.
 William Allen Newton, B.S. (VERMONT), *Education*, Burlington.
 Russell E. Nims, B.S. (MASSACHUSETTS STATE COLLEGE), *Education*, Plainfield.
 Mrs. Ruth Davis Nims, B.A. (OHIO WESLEYAN), *Education*, Plainfield.
 Margaret Gertrude Palmer, B.S. IN ED. (WORCESTER STATE TEACHERS' COLLEGE), *Education*, Worcester, Mass.
 Leo Joseph Papineau, A.B. (ST. MICHAEL'S), *Education*, Swanton.
 Laurence Gilbert Paquin, A.B. (NEW HAMPSHIRE), *Education*, Orange, N. J.
 Katherine Davidson Park, ED.B. (KEENE NORMAL), *English*, Groton, Mass.
 Justus Newton Perrin, A.B. (MIDDLEBURY), *Education*, Greensboro.
 Eugenie Mildred Schutt Philbrick, B.S. (BRIDGEWATER, MASS., STATE TEACHERS' COLLEGE), *English*, S. Royalton.
 John Frederick Pollard, B.S. (COLBY), *Education*, Fairfield, Me.
 Archibald Thomson Post, B.S. (VERMONT), *Education*, Burlington.
 Guy Wallace Powers, B.S. (VERMONT), *Education*, Athens.
 Lucile Emily Powers, B.S. (JACKSON), *English*, Woodstock.
 Gladys Julia Press, PH.B. (VERMONT), *Education*, St. Albans.
 Thelma Evelyn Price, PH.B. (VERMONT), *Education*, Tolland, Conn.
 Ellery Redfield Purdy, B.S. (UNIVERSITY OF PENNSYLVANIA), *History*, Rutland.
 Richard Joseph Cousins Race, A.B. (COLBY), *Education*, Underhill.
 Robert Osborn Randall, B.S. (VERMONT), *Education*, Middlebury.
 Lucy Augusta Rich, B.S. (VERMONT), *Education*, Burlington.
 Leslie Ricker Rowe, A.B. (VERMONT), *Education*, Newbury.
 Newell Dean Rowe, B.S. (VERMONT), *Education*, Fairfax.
 Ruth McLachlin Rowe, A.B. (WELLESLEY), *French*, Waterbury.
 Susie Belle Sanborn, B.S. (VERMONT), *Education*, Stowe.
 Marion Evelyn Sargent, PH.B. (VERMONT), *English*, Burlington.
 Mildred Naomi Scanlon, B.S.E. (LOWELL TEACHERS' COLLEGE), *Education*, Lowell, Mass.
 Rolfe Weston Schoppe, B.S. (VERMONT), *History*, Orleans.
 Henry Clifford Sears, B.S. (SPRINGFIELD), *Education*, Great Neck, N. Y.
 Paul Thornton Sellers, B.S. (NEW HAMPSHIRE), *Education*, Canaan.

- Nettie Harriett Simmons, B.S.E. (FRAMINGHAM TEACHERS' COLLEGE), *Education*, Dedham, Mass.
- Holland Lincoln Smith, A.B. (COLGATE), *Education*, Essex Junction.
- Walter L. Smith, A.B. (HOWARD UNIVERSITY), *Education*, Ardwick, Md.
- George H. Sole, A.B. (WILLIAMS), *Political Science*, Barre.
- Floyd Emory Somerville, B.S. (VERMONT), *Education*, Waitsfield.
- Margaret Pyle Sorber, B.S. (WEST CHESTER, PA., STATE TEACHERS' COLLEGE), *English*, W. Chester, Pa.
- Harris Wells Soule, B.S. (VERMONT), *Education*, Burlington.
- Alice Marguerite Stearns, B.S. IN ED. (VERMONT), *Education*, Burlington.
- Daisy Eva Stewart, PH.B. (VERMONT), *English*, Springfield.
- Frank Ossian Stiles, B.S. (VERMONT), *Education*, Highgate Center.
- Arthur Ladd Stone, B.S. (VERMONT), *Education*, Williamstown.
- Lewis Julius Streeter, B.S. (UNIVERSITY OF NEW HAMPSHIRE), *Education*, Westminster.
- Bernetha Alberta Strickler, A.B. (LEBANON VALLEY), *German*, Schaefferstown, Pa.
- Jesse Earl Sunderland, B.S. (VERMONT), *Education*, St. Albans.
- Virginia Hope Tallard, PH.B. (WISCONSIN), *Education*, New Britain, Conn.
- Elizabeth Curtis Taylor, A.B. (RADCLIFFE), *Education*, Watertown, Mass.
- Jesse Merrill Tebbetts, A.B. (WESLEYAN), *Education*, Fair Haven.
- Willard Edgar Thomen, B.S. (CONNECTICUT), *Education*, Derby.
- Elizabeth Mary Thompson, B.S. (NEW HAMPSHIRE), *Education*, Whitefield, N. H.
- Janet Elizabeth Thompson, A.B. (WHEATON), *Education*, Burlington.
- John A. Thorp, A.B. (ASBURY, WILMORE, KY.), *Education*, S. Woodbury.
- Marion Eugenia Tift, B.S. (VERMONT), *English*, Bennington.
- Lorana Adelaide Tremper, B.S. (DETROIT TEACHERS), *Education*, Detroit, Mich.
- Esther Staat Tyler, A.B. (MUSKINGUM), *History*, Bakersfield.
- George Robert Tyler, A.B. (MUSKINGUM), *Education*, Bakersfield.
- Frank Moses Varney, B.S. (VERMONT), *Education*, Milford, Pa.
- Beverly Groat Wagner, A.B. (HOUGHTON), *Social Science*, Delavan, N. Y.
- Cola Delmore Watson, B.S. (VERMONT), *Education*, Highgate.
- Marian Isabel Weeks, A.B. (ADELPHI), *English*, Brooklyn, N. Y.
- Lena Amy West, B.S. (COLUMBIA), *Education*, Strafford.
- William Murray Wilbur, B.S. (VERMONT), *English*, Barre.
- Catherine Amy Wilcox, B.S. (VERMONT), *English*, Barton.
- Alice Mary Wimett, PH.B. (VERMONT), *History*, Pittsford.
- Marion Witters, PH.B. (VERMONT), *Mathematics*, St. Albans.

THE COLLEGE OF ARTS AND SCIENCES

SENIORS—Class of 1939

Leonard Joseph Abbadessa, GS, 38 Latham Ct., Vergennes.
 Gertrude Elizabeth Atkins, CT, 199 King St., Colchester.
 Bradley Phillip Bacon, Bus, Alpha Tau Omega House, Springfield.
 Dudley Barber Ball, SS, 240 Loomis St., Washington, D. C.
 Joyce Audrey Bates, SS, 26 University Ter., Pittsford.
 Ruth Baxendale, GS, Kappa Alpha Theta House, Burlington.
 Leonard Joseph Bisaccia, GS, 61 Hungerford St., New Hartford, Conn.
 Loren Otis Bishop, SEd, 83 Charlotte St., Shelburne.
 Oscar Benton Bissell, SS, Sigma Alpha Epsilon House, Saxtons River.
 Margaret Ann Bliss, LS, 139 N. Willard St., W. Rutland.
 Lucy Mary Brigham, LS, 48 Colchester Ave., Morrisville.
 Ferne Louise Bristol, LS, Slade Hall, Brandon.
 Burke Graham Brown, Bus, Lambda Iota House, Jericho.
 Lois Batchelder Brown, LS, 419 S. Prospect St., Burlington.
 Bertha Lydia Burkewitz, SEd, Alpha Chi Omega House, Irasburg.
 Roberta Olga Butterfield, SS, Campus House, N. Troy.
 Lucy Buttles, Sec, 457 S. Willard St., Burlington.
 Thomas James Campbell, Cl, Kappa Sigma House, Montpelier.
 Harriet Almira Canedy, LS, Delta Delta Delta House, Jacksonville.
 John Alden Chase, Jr., Bus, 23 Brookes Ave., Newton, Mass.
 Frank Merlin Chereskin, GS, 35 Wilson St., Longmeadow, Mass.
 Everett Paul Ryan Clifford, SEd, 16 Mansfield Ave., Barton.
 Alice Cora Coapland, LS, 159 Loomis St., Craftsbury Common.
 Jack Lewis Cohen, Ch, 173 Intervale Ave., Burlington.
 Marion Harriet Coleman, SEd, 14 University Ter., S. Londonderry.
 Seymour Saul Cutler, GS, Phi Sigma Delta House, Brooklyn, N. Y.
 Arthur Robert Datnoff, SEd, 76 Hyde St., Burlington.
 Stilman George Davis, Jr., GS, Sigma Nu Lodge, Nashua, N. H.
 Jeanne Newman Dennis, LS, Redstone, Morristown, N. J.
 Everett Coyt Dimick, SEd, 72 Greene St., W. Hartford.
 Madelyn Cecilia Donlon, SEd, 48 Colchester Ave., Rutherford.
 Doris Marjorie Dopp, CT, Alpha Chi Omega House, Burlington.
 Martha Shepard Douglass, LS, 122 Summit St., Burlington.
 Ruth Marion Fellows, SEd, 206 East Ave., Burlington.
 Mary Orton Fifield, Cl, Delta Delta Delta House, Newport.

KEY TO ABBREVIATIONS

Ag, Agriculture.
 Bus, Business.
 CE, Civil Engineering.
 Ch, Chemistry.
 Cl, Classical.
 CT, Commercial Teaching.
 Ed, Education.
 EE, Electrical Engineering.
 ElEd, Elementary Education.
 GS, General Science.

GS*, Pre-Medical.
 HE, Home Economics.
 LS, Literary-Scientific.
 ME, Mechanical Engineering.
 Med, Medical.
 MusEd, Music Education.
 Sec, Secretarial.
 SEd, Secondary Education.
 SS, Social Science.
 Sp, Special.

Norma Lois Fletcher, *SEd, Kappa Alpha Theta House*, Orleans.
 Phyllis Evelyn Foster, *SS, Alpha Chi Omega House*, Merrimack, N. H.
 Beryl Frank, *SS, 45 Overlake Park*, Burlington.
 Richard Harris Gale, *Ch, Sigma Nu Lodge*, Stowe.
 James Curtis Giddings, *GS, 345 St. Paul St.*, New Haven, Conn.
 Nancy Elizabeth Gillingham, *Sec, Alpha Xi Delta House*, Woodstock.
 Walter Martin Glass, *GS, 21 Loomis St.*, Burlington.
 Robert Ignatius Gleason, *GS, 116 N. Winooski Ave.*, Burlington.
 Rosendo Adolfo Gomez, *SS, Kappa Sigma House*, Barre.
 Bayard Victor Grant, *Bus, Delta Psi House*, Brattleboro.
 Charles Elmer Harmon, *GS, 243 Colchester Ave.*, Island Pond.
 Doris Agnes Hasseltine, *SEd, 29 Mansfield Ave.*, Bristol.
 Elma Mary Herrick, *CT, Alpha Xi Delta House*, Swanton.
 Delevan Herbert Howe, *Ch, 206 Bank St.*, Pittsfield, Mass.
 Reta Howe, *GS, 49 Mansfield Ave.*, Wilmington.
 John Alexander Hunter, Jr., *GS, Phi Delta Theta House*, Dover, N. H.
 Erma Rita Mae Hurteau, *SEd, 56 N. Willard St.*, Alburg.
 John Conklin Husing, *Bus, Sigma Nu Lodge*, Lynbrook, N. Y.
 Harold Larned Hutchins, Jr., *GS, Phi Delta Theta Home*, Hamden, Conn.
 Muriel Eva Hutchinson, *LS, Alpha Chi Omega House*, Essex Junction.
 Edward Jacobson, *SS, 69 N. Willard St.*, Salisbury.
 Albert Basil Jerard, *GS, Sigma Phi Place*, Newport, N. H.
 Barbara Elizabeth Jones, *GS, 16 S. Winooski Ave.*, Burlington.
 Frederic Tracy Jones, *Bus, Delta Psi House*, Burlington.
 Norman Kemler, *GS, 410 S. Winooski Ave.*, Burlington.
 Leona Nellie Kilburn, *SEd, Alpha Xi Delta House*, Collinsville, Conn.
 Henry Vincent Kogut, *SS, 165 Loomis St.*, Bridgeport, Conn.
 Rita Margaret Lambert, *SS, Campus House*, Holyoke, Mass.
 Norma Madeleine Lessor, *Cl, 82 Hungerford St.*, Burlington.
 Murray Newman Levin, *GS, 166 Loomis St.*, Burlington.
 Aaron Abraham Levine, *SEd, Phi Sigma Delta House*, W. Rutland.
 Frank Lewis, *GS, Phi Sigma Delta House*, Brooklyn, N. Y.
 Clarence Henry Lipsky, *Bus, 43 N. Willard St.*, Great Neck, L. I., N. Y.
 Bernard Lisman, *SS, 158 N. Willard St.*, Burlington.
 Helen Louise Loudon, *LS, Robinson Hall*, Minneapolis, Minn.
 Lawrence Diskin McCrea, *GS, 154 Park St.*, Burlington.
 Thomas Burke McHugh, *SEd, Alpha Tau Omega House*, Rutland.
 James Elmer McKee, Jr., *GS, 16 Mansfield Ave.*, Arlington.
 Ruth Wood Anderson Mills (Mrs.), *Sec, 339 Colchester Ave.*, Burlington.
 Howard Lester Minckler, *Ch, Delta Psi House*, Grand Isle.
 Lester Henry Mitchell, *SS, 119 Mansfield Ave.*, Burlington.
 Richard Friedhold Morgner, *SS, 52 N. Prospect St.*, Fitchburg, Mass.
 Alice Wood Hamilton Myers (Mrs.), *Sp(SS), 313 Maple St.*, Burlington.
 Elmer Lyle Nicholson, *GS, 5 School St.*, Rochester.
 Ruth Anne Palmer, *LS, Pi Beta Phi House*, Crestwood, N. Y.
 Owen Meredith Parry, *SEd, 206 Bank St.*, Poultney.
 Charlotte Elma Phelps, *SEd, Essex Junction*, Essex Junction.
 Robert Ernest Pierce, *SEd, 106 Loomis St.*, Jacksonville.
 Loren Joffre Pretty, *SS, 16 Mansfield Ave.*, Woodstock.
 John Thompson Prior, *GS, Sigma Nu Lodge*, St. Albans.
 Mary Margaret Rasines, *Cl, Redstone*, Barre.
 Edith Marian Rice, *SS, Kappa Alpha Theta House*, Cleveland Heights, Ohio.

Harriette Louise Riddell, GS, 26 *University Ter.*, Williamstown.
 Jane Harriet Riddell, SS, 740 *North Ave.*, Burlington.
 Sarah Catherine Rigney, CT, *Alpha Xi Delta House*, Lafayette, R. I.
 Grace Marie Rinck, SS, *Redstone*, Ridgewood, N. J.
 Dorothea Robinson, SED, *Pi Beta Phi House*, Homestead, Fla.
 Milton Rosenthal, GS, *Phi Sigma Delta House*, Roxbury, Mass.
 Permelia Theodora Ruggles, SED, *Slade Hall*, Bellows Falls.
 Priscilla Savage, Cl, *Pi Beta Phi House*, Randolph.
 Alfred Schwartz, GS, *Phi Sigma Delta House*, Brooklyn, N. Y.
 Howard Julian Schwartz, GS, 116 N. *Prospect St.*, Mineola, L. I., N. Y.
 Kathryn Scott, GS, *Pi Beta Phi House*, Kingston, R. I.
 Edward Gabriel Sedlis, SS, 25 *Wilson St.*, Brookline, Mass.
 Edward Joseph Sennett, LS*, 206 *Bank St.*, Poughkeepsie.
 Richard Lyman Seymour, Bus, 21 N. *Williams St.*, St. Albans.
 Mary Coleman Shakespeare, Sec, *Kappa Alpha Theta House*, Rutland.
 Thais Barbara Shapland, SED, 62 *Harrington Ter.*, St. Albans.
 Winston Hugo Sharp, Ch, 424 S. *Union St.*, Newton Center, Mass.
 Janet Preston Sheltus, LS, *Alpha Chi Omega House*, Swanton.
 Rebecca Charlotte Shippee, SED, *Alpha Chi Omega House*, W. Dover.
 Philip Brett Shoemaker, GS, 37 N. *Prospect St.*, Essex, N. Y.
 Arthur Parmelee Silvester, SED, 15 *Wilson St.*, Brattleboro.
 Clarence Raymond Simmons, GS, *Lambda Iota House*, Oakland, Me.
 Harold Leonard Simmons, Jr., GS, *Kappa Sigma House*, New Bedford, Mass.
 Anna Arthalene Smith, SS, 48 *Hoover St.*, Burlington.
 Margaret Elizabeth Smith, CT, *Slade Hall*, Pittsfield, Mass.
 Richard Francis Snape, SS, 102 *Summit St.*, N. Adams, Mass.
 Myron Alden Solin, GS, 349 *Pearl St.*, Chicopee, Mass.
 Anne Louise Squire, GS, 26 *University Ter.*, Waterbury.
 James Howell Starbuck, Sp(Bus), 360 *College St.*, Burlington.
 David Jacob Steinberg, SS, *Phi Sigma Delta House*, Roxbury, Mass.
 Joseph Carleton Stickney, GS, 236 *Main St.*, Rutland.
 Leola Myra Stiles, SED, 565 *Main St.*, Middlebury.
 Elizabeth Pawling Struthers, SS, 62 *Harrington Ter.*, W. Wardsboro.
 Evelyn Martha Sweeny, SED, *Alpha Chi Omega House*, St. Albans.
 Annice Nadine Swertfeger, SS, 145 *Robinson Ct.*, Berwyn, Ill.
 Webster Spencer Thompson, Bus, 35 *Lafayette Pl.*, Burlington.
 George Arthur Tulin, GS, 349 *Pearl St.*, Hartford, Conn.
 Theresa Ottilia Weiss, SED, 239 S. *Prospect St.*, N. Bergen, N. J.
 Genevieve Victoria Wesolowska, GS, 98 *Brookes Ave.*, Shirley, Mass.
 Frances Marie Whalen, Sec, 394 *Pearl St.*, Burlington.
 Margaret Inda Wheeler, SED, *Grassmount*, Calais.
 Anita Lina Wiegand, CT, 62 *Harrington Ter.*, Maplewood, N. J.
 Willard Alexander Wilcox, SS, 25 *Brookes Ave.*, Jacksonville.
 Richard Wilson, Ch, *Delta Psi House*, Arlington, Mass.
 Ruth Sarah Wimett, CT, *Alpha Xi Delta House*, Pittsford.
 Mabel Elizabeth Wood, LS, 48 *Colchester Ave.*, Montpelier.

JUNIORS—Class of 1940

Channing Leach Adams, GS, 243 *Colchester Ave.*, Morrisville.
 Howard Alfred Allen, Jr., Bus, 89 *Ledge Rd.*, Burlington.
 Mary Arms, SS, *Pi Beta Phi House*, Farmington, Me.

- Richard Travis Atkins, *GS**, 16 S. *Winooski Ave.*, Brewster, N. Y.
 Paul John Audette, *GS**, 50 S. *Willard St.*, Burlington.
 Edward Noble Baldwin, *Bus*, M. *Converse Hall*, Bennington.
 Seymour Israel Barowsky, *SS*, *Tau Epsilon Phi House*, Holyoke, Mass.
 Theodore William Bartlett, *Ch*, 60 *Colchester Ave.*, Newport Center.
 Eleanor Rust Bayley, *CT*, 252 *Colchester Ave.*, Burlington.
 Kendall Forbes Beaton, *LS*, *Lambda Iota House*, S. Ryegate.
 Anso Belardinelli, *Bus*, 206 *Bank St.*, Norwalk, Conn.
 Edward Milton Berkowitz, *GS**, *Tau Epsilon Phi House*, Chelesa, Mass.
 Jack Samuel Berkowitz, *GS**, 190 *Loomis St.*, Greenwich, N. Y.
 Jeannette Muriel Bisson, *GS**, *Grassmount*, Berlin, N. H.
 Gwendolyn Mavis Blanchard, *GS*, 70 *School St.*, Newport.
 William Leonard Blanchard, Jr., *Bus*, *Sigma Nu Lodge*, Melrose Highlands, Mass.
 Gordon Badger Booth, *SS*, 86 *Williams St.*, Burlington.
 Martin James Boucher, Jr., *Bus*, 37 N. *Prospect St.*, White Plains, N. Y.
 Jean Elizabeth Brehmer, *LS*, *Grassmount*, Rutland.
 Rosemary Cady Brewster, *GS**, *Sanders Hall*, Underhill.
 Eleanor Brody, *SEd*, *Campus House*, Brooklyn, N. Y.
 Alfred Keith Brown, *SS*, *Phi Delta Theta House*, Billings, Mont.
 Clarence Halsall Brown, *GS**, 101 *Robinson Ct.*, Rutland.
 Jean Olive Butler, *LS*, 403 *College St.*, Burlington.
 Barbara Jean Campbell, *LS*, *Delta Delta Delta House*, Milton.
 Earl Atwood Cash, *GS* 348 *College St.*, W. Dennis, Mass.
 Novello Cenci, *GS**, 20 *Brookes Ave.*, Barre.
 Arthur Dewitt Clark, *SS*, 24 *Russell St.*, New York, N. Y.
 Catherine Clark, *LS*, 145 *Robinson Ct.*, Holyoke, Mass.
 Marcelyn Katherine Heath Clark (Mrs), *LS*, *Hinesburg Rd.*, Burlington.
 Mary Avis Cobb, *GS*, *Kappa Alpha Theta House*, Rutland.
 Elizabeth Ann Coggins, *Sec*, 31 S. *Willard St.*, Burlington.
 William George Cole, *SEd*, S. *Converse Hall*, Quechee.
 Jean Kay Connor, *Sec*, 565 *Main St.*, Fairfield.
 Mary Frances Coryell, *GS*, 26 *University Ter.*, Palisade, N. J.
 Marion Louise Craig, *SS*, *Slade Hall*, Elmwood, Conn.
 Brenda Crocker, *CT*, *Warner House*, N. Hyde Park.
 Madeline Marguerite Crosby, *CT*, *Slade Hall*, Whiting.
 William Hazen Cross, *Bus*, *Kappa Sigma House*, Bombay, N. Y.
 Ralph Leslie Cudlipp, Jr. *GS**, *Fort Ethan Allen*, Fort Ethan Allen.
 George John Cummings, *SEd*, 5 *Handy Ct.*, Johnstown, N. Y.
 Lloyd George Davies, *GS**, S. *Converse Hall*, Bath, Me.
 Everett Lee Davis, *GS**, 139 N. *Prospect St.*, Craftsbury Common.
 John Ware Davis, *SS*, 60 *Colchester Ave.*, Brattleboro.
 Roger Martin Davis, *Ch*, 199 *King St.*, Readsboro.
 Thomas DePalo, *GS**, 308 *Main St.*, White River Junction.
 Albert Dolinsky, *GS**, 98 N. *Prospect St.*, Winsted, Conn.
 Mortimer DuBoff, *GS**, 93 S. *Willard St.*, W. Hartford, Conn.
 Ruth Eldridge, *SEd*, *Warner House*, Wolcott.
 Howard Francis Fitzgerald, *SS*, *Sigma Nu Lodge*, Bennington.
 Judith Virginia Flack, *SEd*, 145 *Robinson Ct.*, Potsdam, N. Y.
 Edmund Hulburd Flagg, *Bus*, *Delta Psi House*, Craftsbury Common.
 Ruth Elizabeth Frisbie, *CT*, 565 *Main St.*, Westport, N. Y.
 Frances Cushman Fuller, *Sec*, *Pi Beta Phi House*, DeLand, Fla.
 Eugene Gasperini, Jr., *Bus*, *Phi Delta Theta House*, Great Neck, N. Y.

- Stuart Kerr Gilbert, SS, *Delta Psi House*, Dorset.
 Herman Goodman, SS, 93 *S. Willard St.*, Hartford, Conn.
 Robert Wallace Gorton, Bus, *Sigma Phi Place*, New Haven, Conn.
 Dominick James Graziano, GS*, *Sigma Nu Lodge*, Flushing, N. Y.
 William Mead Griffin, GS*, 261 *S. Prospect St.*, Hackensack, N. J.
 Mildred Florence Guttormsen, SS, *Redstone*, E. Walpole, Mass.
 Charlotte Finley Hall, SS, *Allen House*, Ridgewood, N. J.
 Arthur Haritos, SS, 348 *College St.*, Waterbury.
 Rebecca Jean Harshbarger, SEd, 145 *Robinson Ct.*, Detroit, Mich.
 Madge Ellen Hendee, Sec, 244 *Maple St.*, Burlington.
 Kenneth Edward Hoffman, SS, 37 *Buell St.*, Lyndonville.
 William Edward Hunter, SS, *Kappa Sigma House*, Randolph.
 Janet Lydia Ingerson, Sec, *Pi Beta Phi House*, Lebanon, N. H.
 Edward Suter Irwin, GS, 260 *S. Union St.*, Burlington.
 Gunhild Evelyn Isackson, Cl, *Redstone*, Barre.
 Lawrence Albert Janoff, GS*, 236 *S. Prospect St.*, New York, N. Y.
 Paul Calvin Jenks, GS*, 88 *N. Prospect St.*, Burlington.
 Elsie Jane Johnson, CT, *Essex Junction*, Essex Junction.
 Robert Hall Johnson, SEd, 56 *Colchester Ave.*, Fair Haven.
 Gertrude Isabel Johnston, GS, 55 *University Ter.*, Barre.
 William Herbert Johnston, GS*, *Mary Fletcher Hospital*, New Glasgow, N. S., Can.
 Robert Ellis Johnstone, GS*, 140 *N. Prospect St.*, Burlington.
 David Robinson Jones, GS, *Sigma Nu Lodge*, Schenectady, N. Y.
 Elizabeth Margaret Jorgensen, Cl, 20 *Fletcher Pl.*, White River Junction.
 Jerome David Katz, Bus, 349 *Pearl St.*, W. Hartford, Conn.
 Helen Louise Keedy, GS, *Alpha Xi Delta House*, Amherst, Mass.
 Hester Kehoe, Sec, *Pi Beta Phi House*, Rutherford, N. J.
 Leighton Clair Kimball, GS*, 206 *Bank St.*, Lowell, Mass.
 Doris Cinda Kinsley, LS, 380 *Maple St.*, Montpelier.
 Wendell Eldon Ladd, GS, *Sigma Phi Place*, Worcester.
 Florence Ruth LaFayette, CT, 32 *University Ter.*, Plainfield.
 Herman Alexander Lebow, GS*, 112 *Loomis St.*, Burlington.
 Robert Bartlett Linsley, GS*, 462 *S. Willard St.*, Gardiner, Me.
 Charles Henry McClelland, SS, *Sigma Nu Lodge*, Johnson.
 Allan Dale MacDonald, SS, *Alpha Tau Omega House*, Hardwick.
 Elizabeth Weyburn Marlow, SS, *Redstone*, Ridgewood, N. J.
 John Allan Meiklem, Bus, 261 *S. Prospect St.*, Hartford, Conn.
 Adrien William Mercier, GS, *Sigma Alpha Epsilon House*, Leominster, Mass.
 Henry Van Middleworth, Bus, *Pbi Delta Theta House*, Rockville Center N. Y.
 Manuel Albert Miller, GS*, 61 *N. Willard St.*, Fitchburg, Mass.
 Mary Elizabeth Millington, CT, *Slade Hall*, Plattsburg, N. Y.
 Harold Moskovitz, SS, 24 *St. Louis St.*, Burlington.
 Elizabeth Louise Myers, SS, 200 *Howard St.*, Burlington.
 Mary Cobb Nelson, SS, *Redstone*, Woodstock.
 George Sears Noonan, Bus, *Delta Psi House*, Vergennes.
 Elvira Frances Palermo, LS, *Grassmount*, Waterbury.
 Peter Ernest Patch, GS*, *Sigma Alpha Epsilon House*, Windsor.
 Elliot David Pearl, Bus, *Pbi Sigma Delta House*, Swanton.
 Robert Stuart Pease, GS*, 134 *Ferguson Ave.*, Burlington.
 Robert Alarik Morton Peterson, Bus, *Sigma Nu Lodge*, Plainfield, N. J.
 Howard Leon Plant, Ch, 89 *Main St.*, Hartford, Conn.
 Alta Amanda Plumb, Sec, *Alpha Chi Omega House*, Springfield.

Edward Israel Poriss, GS*, 522 North St., Hartford, Conn.
 Ramon David Rich, Ch, 88 S. Union St., Burlington.
 Heath Kenyon Riggs, GS, Richmond, Richmond.
 Carl Howard Schofield, SS, Kappa Sigma House, St. Albans.
 Catherine Shalucha, LS, 32 University Ter., Springfield.
 Lawrence Albert Simpson, Bus, Kappa Sigma House, St. Albans.
 Barbara Clair Smith, SS, Alpha Chi Omega House, Bridgeport, Conn.
 Robert Ellsworth Spaulding, LS, 117 Bank St., Burlington.
 Georgianna Lewitus Steinman, SS, Grassmount, Brooklyn, N. Y.
 Clark William Stevens, GS*, 16 Mansfield Ave., N. Stratford, N. H.
 Paul McLachin Stoddard, GS*, 26 Fletcher Pl., Groton.
 Charles Caverly Swift, GS*, 41 University Ter., Rutland.
 Elizabeth Esther Taylor, Sec, 32 Brookes Ave., Burlington.
 John Ernest Thayer, GS*, 38 Lafayette Pl., Burlington.
 Earle Roger Thomas, Bus, Alpha Tau Omega House, Westport, N. Y.
 Richard Lee Tracy, Bus, Delta Psi House, Shelburne.
 Shirley Roslyn Treat, LS, Slade Hall, Bridgeport, Conn.
 Ruth Mary Tucker, GS, 48 Colchester Ave., Middlebury.
 Charles Wilbar Utter, Bus, Sigma Phi Place, Westerly, R. I.
 William Fredrick Vassar, SS, 203 S. Winooski Ave., Bristol.
 Geraldine Mary Waldo, SS, Redstone, Norwichtown, Conn.
 Russell Smith Wallin, SEd, 5 Handy Ct., Amsterdam, N. Y.
 Grace Aileen Weaver, SS, 159 Loomis St., Brattleboro.
 Dorothy Wright Whitcomb, SS, Slade Hall, Springfield, Mass.
 Lee Bretton Whitcomb, Bus, Phi Delta Theta House, St. Albans.
 Allan Rawson Williams, Ch, Jericho, Jericho.
 Phyllis Mary Williams, SS, Charlotte, Charlotte.
 Ruth Helen Williams, Cl, Jericho, Jericho.
 Donald Edward Wilson, Jr., GS*, 106 Colchester Ave., Bristol.
 Ethyle Renée Wolfe, Cl, 73 Hyde St., Burlington.
 Allan Yale Wolinsky, GS*, 236 S. Prospect St., W. Rutland.
 Rudolph Orville Woodcock, GS*, 21 N. Union St., Plainfield.
 Joseph Michael Wysolmerski, SS, Alpha Tau Omega House, W. Rutland.

SOPHOMORES—Class of 1941

Peggy-Dean Abbott, Sec, Shelburne Rd., Burlington.
 Althea Lucille Abell, Sec, 31 Robinson Ct., Burlington.
 Jane Allen, Sec, 89 Ledge Rd., Burlington.
 Barbara Ann Bagby, LS, Slade Hall, Plattsburg, N. Y.
 Ethel Clara Bailey, CT, 48 Colchester Ave., Craftsbury.
 Pauline Adena Bailey, SS, Essex Junction, Essex Junction.
 Martha Lillian Baker, Cl, 49 Mansfield Ave., Milton.
 Clifton Summers Baldwin, GS*, 89 Buell St., New Baltimore, N. Y.
 Bernard Barney, GS*, 197 N. Willard St., Bennington.
 Margaret Mary Beattie, Cl, Allen House, St. Johnsbury.
 Arnold Herman Becker, GS*, 234 N. Willard St., Burlington.
 Leah Begun, LS, Grassmount, New York, N. Y.
 Albert Raymond Betts, Jr., SS, Sigma Phi Place, Simsbury, Conn.
 George John Bicoulis, GS*, 155 Loomis St., Fitchburg, Mass.
 Jack Bloom, GS*, Tau Epsilon Phi House, Hartford, Conn.
 Mary Catherine Bodette, GS*, Sanders Hall, Vergennes.

- Howard Spencer Bray, SS, *Sigma Alpha Epsilon House*, Orleans.
 Lucille Elizabeth Brennon, GS, 29 *Mansfield Ave.*, St. Albans.
 Jean Carol Brooks, SS, *S. Burlington*, S. Burlington.
 William Joseph Buckley, GS, *Phi Delta Theta House*, Bridgeport, Conn.
 Robert Leal Burke, Bus, 37 *N. Prospect St.*, Rutland.
 Olive Mac Burrington, SS, *Sanders Hall*, St. Johnsbury.
 Alfred William Burroughs, Bus, 515 *North St.*, Brattleboro.
 Barbara Lennox Butler, GS, 32 *University Ter.*, Rutland.
 José Nemesio Cabanzo, GS*, 403 *College St.*, Barre.
 Austin Martin Cahill, SS, *S. Converse Hall*, Brooklyn, N. Y.
 Allan James Caldwell, Bus, 34 *N. Williams St.*, Burlington.
 Christine Caruthers, SS, *Fort Ethan Allen*, Fort Ethan Allen.
 Ferdinand George Chiarello, Bus, *Lambda Iota House*, Brooklyn, N. Y.
 Challiss Irvin Clausing, GS, *Essex Center*, Essex Center.
 Gerald Arnold Cohen, GS*, 116 *N. Prospect St.*, New Britain, Conn.
 Warren Merritt Colehamer, Bus, *S. Converse Hall*, Newark, N. J.
 David Vernon Collins, Ch, 387 *Park Ave.*, Burlington.
 Agnes Moore Conley, SS, *Pi Beta Phi House*, Brockton, Mass.
 Paul Edward Corley, Bus, 161 *S. Prospect St.*, Burlington.
 Martha Hope Crane, Sec, 470 *S. Union St.*, Burlington.
 Thomas Frank Crimmin, Jr., Bus, *S. Converse Hall*, Windsor.
 Margaret Powers Crowley, SS, *Pi Beta Phi House*, Hastings-on-Hudson, N. Y.
 James Peter Cunavelis, SS, 27 *N. Union St.*, St. Johnsbury.
 Lois Anne Dallenbach, Sp, 83 *N. Willard St.*, Champaign, Ill.
 Edward Simeon Dangel, SS, 190 *Loomis St.*, Brookline, Mass.
 Francis Milton Dellafera, GS*, 505 *North St.*, S. Manchester, Conn.
 Jeanette DiDio, GS*, *Robinson Hall*, New York, N. Y.
 James Patrick Diforio, GS*, 43 *N. Willard St.*, Mamaroneck, N. Y.
 Harry Enrico DiPietro, GS, 56 *Colchester Ave.*, Watertown, Mass.
 John Thomas Doheny, SS, *Richmond*, Richmond.
 Elizabeth Doton, GS*, 50 *Robinson Ct.*, Woodstock.
 Sidney Dreier, GS*, 28 *Williams St.*, New York, N. Y.
 Margaret Leonard Drum, LS, *Campus House*, Mendham, N. J.
 Angeline Ducas, LS, *Campus House*, Waterbury.
 Harold Allen Durfee, SS, *Kappa Sigma House*, N. Bennington.
 Stanley Franklin Dwinell, GS*, 25 *Brookes Ave.*, Bradford.
 Edward Oscar Eaton, SS, 15 *University Ter.*, Waitsfield.
 James Tuckerman Emott, Jr., SS, *Phi Delta Theta House*, Morristown, N. J.
 Adrienne Beatrice Ettlinger, SS, *Campus House*, New York, N. Y.
 Barbara Elizabeth Evans, Sec, *Essex Junction*, Essex Junction.
 John Joseph Fahey, SS, *Sigma Nu Lodge*, Marlborough, Mass.
 Jean Eloise Finney, SED, *Robinson Hall*, Malone, N. Y.
 Sumner Samuel Firestone, GS*, 146 *Mansfield Ave.*, Roxbury, Mass.
 Kenneth Steele Fletcher, Jr., GS*, *Alpha Tau Omega House*, Chicopee, Mass.
 Frederic Earl Ford, Ch, *Charlotte*, Charlotte.
 Richard Alan Foster, SS, 235 *Loomis St.*, Abington, Mass.
 Lyman Whitcomb Gallup, Bus, *Delta Psi House*, Saylesville, R. I.
 Raymond Atkins Ganz, SS, *Tau Epsilon Phi House*, W. Hartford, Conn.
 Donald Frederick Gearing, GS*, *Sigma Alpha Epsilon House*, Bristol, Conn.
 Marilyn Elizabeth Gile, Sec, 68 *S. Union St.*, Burlington.
 Israel Goodman, GS*, *Tau Epsilon Phi House*, New London, Conn.
 Shirley Leighton Gray, SS, *Robinson Hall*, Montclair, N. J.

Clara Ray Griffel, SS, 159 *Loomis St.*, New York, N. Y.
 Edward August Guilbert, SS, *Sigma Alpha Epsilon House*, Waterbury, Conn.
 Eva Hamilton, GS, *Campus House*, White Plains, N. Y.
 Thomas James Hanley, III, Sp, 17 *Wilson St.*, Hempstead, N. Y.
 Henry Oliver Hazelton, SS, *Sigma Nu Lodge*, Peekskill, N. Y.
 Richard Gerald Healy, Bus, 49 *Bay View St.*, Lynbrook, N. Y.
 William Sample Hicks, Sp, 255 *S. Prospect St.*, Burlington.
 Ruth Etta Hopkins, SS, *Sanders Hall*, Lyndon Center.
 Ethan Victor Howard, Jr., GS*, 399 *S. Winooski Ave.*, Burlington.
 Lyman Curtis Hunt, Jr., GS, 37 *Cliff St.*, Burlington.
 Taze Rutherford Huntley, SS, 80 *N. Willard St.*, Morrisville.
 Anton Jacob, GS*, 128 *Colchester Ave.*, Bridgeport, Conn.
 Howard Hinman Jacobs, GS*, 96 *Henry St.*, Enosburg Falls.
 Kenneth William Johnson, Bus, 155 *Loomis St.*, Winchester, N. H.
 Fleda Angie Jones, SS, *Allen House*, Morrisville.
 Joseph Louis Kamber, GS*, *Phi Sigma Delta House*, Manchester Depot.
 Jacob Kaplan, SS, 95 *Hyde St.*, Burlington.
 Francis Alan Kennedy, GS*, 147 *Loomis St.*, St. Albans.
 Harold Walling Kennedy, II, GS, 71 *Williams St.*, Waterbury.
 Robert Pardon Kenney, SS, *Delta Psi House*, Auburn, R. I.
 Dorothy Priscilla Kester, Sec, *Prospect House*, Walkerville, Ont., Can.
 Allan Grenville Kidd, SS, 268 *Colchester Ave.*, Northfield.
 Harriet Lina Kieslich, Sec, 167 *North Ave.*, Burlington.
 Philip Sford Killoran, SED, *Essex Junction*, Essex Junction.
 Olga Kish, CT, *Allen House*, Florence.
 Harriet Beatrice Koble, CT, *Prospect House*, Witherbee, N. Y.
 Raymond Curtis Lamberton, SED, 300 *Main St.*, Marshfield.
 William Carol Langlas, Bus, *Sigma Phi Place*, Waterloo, Ia.
 Alexander John Lapsis, Jr., GS*, *S. Converse Hall*, New Britain, Conn.
 Raymond Francis Laramie, Bus, *S. Converse Hall*, Fair Haven.
 Nona Agnes Lathrop, Sec., *Prospect House*, Bristol.
 Jacob Arolf Levin, SS, 166 *Loomis St.*, Burlington.
 Meyer Jacob Levin, SS, 203 *King St.*, Burlington.
 Robert Levine, GS*, *Phi Sigma Delta House*, Brooklyn, N. Y.
 Harvey Turner Lippe, GS*, *N. Converse Hall*, Burlington.
 Herbert Frank Lowe, SS, 241 *Loomis St.*, Brookline, Mass.
 William Ray Lyman, Ch, 30 *Adsit Ct.*, S. Londonderry.
 Jane Elizabeth Lyons, SS, *Pi Beta Phi House*, New York, N. Y.
 Richard Thomas McDonough, GS*, 348 *College St.*, Woburn, Mass.
 Henry Hill McGinty, GS*, *M. Converse Hall*, E. Killingly, Conn.
 Lorraine Catherine Mahar, Sec, *Alpha Xi Delta House*, Fair Haven.
 John Paul Mahoney, GS*, 147 *Loomis St.*, Stoneham, Mass.
 Donald William Maley, SED, 47 *Bay View St.*, Great Barrington, Mass.
 Armstrong Maltbie, SS, 139 *Mansfield Ave.*, Brant Lake, N. Y.
 Gertrude Louise Mann, SS, *Kappa Alpha T'beta House*, Burlington.
 Warren Kendall Manning, Bus, 287 *S. Winooski Ave.*, Burlington.
 Elisabeth Pauline Marshall, Sec, 132 *Colchester Ave.*, Burlington.
 Virginia May Martin, Sp, 145 *Robinson Ct.*, Manchester Center.
 Joseph Raymond Massucco, GS*, 93 *S. Willard St.*, Bellows Falls.
 Grace Meeken, GS, 416 *S. Willard St.*, Portland, Me.
 Maywood Almira Metcalf, LS, *Pi Beta Phi House*, Waterbury.
 Samuel Edgar Miller, SS, 60 *Colchester Ave.*, St. Albans.

- William D'arcy Miningham, Jr., GS*, *Sigma Alpha Epsilon House*, Newark, N. J.
 Margaret Emma Moody, Sec, *Slade Hall*, Waterbury Center.
 William Joseph Murphy, GS*, *Phi Delta Theta House*, Beverly, Mass.
 Irene Lucy Newton, GS, 49 *Mansfield Ave.*, W. Hartford.
 Harry William Noyes, SED, *Alpha Tau Omega House*, N. Bennington.
 Cedric Louis Nussbaum, Bus, *Phi Sigma Delta House*, New York, N. Y.
 Floyd Richard Olson, Bus, 162 *Loomis St.*, Burlington.
 Henri Louis Pache, GS*, 544 *S. Willard St.*, Burlington.
 Evelyn Patricia Paciulli, SED, *Fort Ethan Allen*, Fort Ethan Allen.
 Christopher George Palans, GS*, 92 *Main St.*, Burlington.
 Louis Fabien Pine, GS*, 483 *North St.*, Burlington.
 Lawrence Arthur Pion, Sp, 25 *Brookes Ave.*, Littleton, N. H.
 William Arthur Pratt, GS*, 93 *S. Willard St.*, Rutland.
 William Sanford Preston, Jr., Bus, 166 *Summit St.*, Burlington.
 William Irving Pye, Bus, 433 *Main St.*, Pittsford.
 Emanuel Max Racher, GS*, 75 *Loomis St.*, Bridgeport, Conn.
 Jonathan Buckminster Ranney, GS*, 37 *N. Prospect St.*, Long Island City, N. Y.
 Vera Flora Ranney, SS, 32 *University Ter.*, N. Concord.
 Earl Greene Reed, Bus, 260 *Main St.*, Oakfield, N. Y.
 Milton Paul Reiser, GS*, *N. Converse Hall*, Roxbury, Mass.
 Elizabeth Rose Richmond, Sp, *Redstone*, St. Johnsbury.
 Floyd Charles Rising, SED, 119 *Buell St.*, White River Junction.
 Edgar Franklin Roby, Bus, *Delta Psi House*, Montpelier.
 Elisabeth Helen Roche, SS, *Prospect House*, New Britain, Conn.
 Gilman Belcher Rood, GS*, *Delta Psi House*, St. Albans.
 Eileen Frances Rooney, CT, 145 *Robinson Ct.*, St. Albans.
 Ivan Booth Ross, GS*, 64 *N. Prospect St.*, St. Albans.
 John Russell Royer, Bus, *Kappa Sigma House*, Westfield, N. J.
 Raymond Blank Rubens, SS, *Phi Sigma Delta House*, Brooklyn, N. Y.
 Miriam Barger Rubin, SS, *Robinson Hall*, Brockton, Mass.
 Henry Jerome Rulfo, GS*, 20 *Brookes Ave.*, Barre.
 Harold John Rush, GS*, 64 *N. Prospect St.*, Newport.
 Richard Salmon, SED, *Sigma Alpha Epsilon House*, Stanhope, N. J.
 Seeman Samuels, Ch, 108 *North St.*, Kingston, N. Y.
 Carrye H. Samuelson, Sec, 63 *Hyde St.*, Burlington.
 Jean Betty Saul, SS, *Redstone*, Fitchburg, Mass.
 Doris Shirley Schlaf, SS, 159 *Loomis St.*, Rockville, Conn.
 Albert Joseph Senuta, Bus, *S. Converse Hall*, Fitchburg, Mass.
 Max Michael Shuman, GS*, 241 *Loomis St.*, Fitchburg, Mass.
 James Edwin Simpson, GS*, *Kappa Sigma House*, St. Albans.
 Melvin Herbert Small, GS*, 153 *Summit St.*, Burlington.
 Dorothea Smith, SS, 129 *Spruce St.*, Burlington.
 Robert Norman Snider, Bus, 28 *Williams St.*, Boston, Mass.
 Malcolm Allen Stark, GS*, 348 *College St.*, Jamaica.
 Seymour Starr, GS, 34 *University Ter.*, Brooklyn, N. Y.
 Carole Esther Stetson, Sec, *Shelburne Rd.*, Burlington.
 Jean MacMillan Stewart, SS, *Allen House*, Rawalpindi, India.
 Burt Clifton Stone, Jr., SS, 40 *Kingsland Ter.*, Hardwick.
 Norman Kenneth Strassburg, SED, *Delta Psi House*, N. Tonawanda, N. Y.
 Jessie Swann, LS, 47 *N. Prospect St.*, Danvers, Mass.
 Francis Marshal Taylor, SED, *Sigma Alpha Epsilon House*, Brattleboro.
 Donald William Thayer, SS, 38 *Bay View St.*, Burlington.

Mary Jeanette Thompson, *Sec*, 35 *Lafayette Pl.*, Burlington.
 Norman Williams Thompson, *SS*, *Sigma Phi Place*, Bellows Falls.
 Edith Louise Topkins, *LS*, *Prospect House*, Brooklyn, N. Y.
 Caroline Trask, *Sec*, *Prospect House*, Rochester.
 Frank Joseph Trigilio, *SEd*, 96 *Summit St.*, Oakfield, N. Y.
 Franklyn Haven Utley, *GS*, *Sigma Alpha Epsilon House*, W. Hartford, Conn.
 Helen Walker, *LS*, *Richmond*, Richmond.
 Hazel Marion Warner, *Sp*, 96 *Colchester Ave.*, Burlington.
 Duane Whelan, *Bus*, 43 *N. Willard St.*, Brooklyn, N. Y.
 Rupert Elmer White, *GS**, 21 *N. Union St.*, Starksboro.
 Geraldine Mae Wilcox, *Sec*, *Allen House*, Newport.
 Harold Irving Williams, Jr., *SS*, 34 *Elmwood Ave.*, Burlington.
 Thelma Lois Wolinsky, *Sec*, 56 *University Ter.*, W. Rutland.
 Arthur Dave Wolk, *GS**, *Phi Sigma Delta House*, Rutland.
 Elizabeth Anne Wood, *LS*, 49 *Mansfield Ave.*, Brandon.
 Martha Jean Wright, *Sp*, 258 *S. Willard St.*, Burlington.
 William Harold Wright, *GS**, 56 *Colchester Ave.*, Middletown, Conn.
 Beatrice Zeichick, *Sec*, *Warner House*, Chelsea, Mass.

FRESHMEN—Class of 1942

Collamer Martin Abbott, *LS*, 55 *Loomis St.*, Wilder.
 Roberta Jane Abbott, *SS*, 83 *N. Willard St.*, Orchard Park, N. Y.
 Frances Elizabeth Abel, *GS*, *Campus House*, Montclair, N. J.
 Yudel Lester Adler, *GS**, 51 *Henry St.*, Burlington.
 Lawrence Martin Agan, *GS**, 155 *Loomis St.*, Bennington.
 Robert William Agan, *GS**, 155 *Loomis St.*, Bennington.
 Norma Joené Agard, *Cl*, *Redstone*, Jamaica, N. Y.
 Marjorie Elaine Albro, *Sec*, *Robinson Hall*, Springfield, Mass.
 Norman Bruce Altenberg, *GS*, *N. Converse Hall*, New York, N. Y.
 Virginia Elizabeth Amidon, *SS*, *Campus House*, Worcester, Mass.
 Carl Marius Andresen, Jr., *SS*, 531 *St. Paul St.*, Burlington.
 George Wallace Andrews, *SS*, 121 *Loomis St.*, Lawrence, Mass.
 Geraldine Pearle Annis, *LS*, 381 *Main St.*, Barton.
 Lillian Elsie Aronson, *Sec*, *Slade Hall*, Proctor.
 Violet Mary Arrison, *SEd*, 381 *Main St.*, Springfield.
 George Francis Babits, *Cb*, *M. Converse Hall*, Greenfield, Mass.
 Dorothy Jane Badger, *Sec*, 44 *Perrotta Pl.*, Burlington.
 Charles Raymond Bannon, *GS**, 75 *Grant St.*, Glens Falls, N. Y.
 Fulvio Bardossi, *SS*, 24 *Nash Pl.*, Barre.
 Herbert Basch, *GS**, 534 *North St.*, Hartford, Conn.
 Clinton Arthur Baxter, *GS**, 313 *North St.*, Milton.
 Frederick Roberts Bean, *Sp*, *S. Converse Hall*, Passumpsic.
 Sylvia Frances Beckenstein, *SEd*, *Grassmount*, Stamford, Conn.
 Carolyn Joyce Bell, *LS*, *Robinson Hall*, Jeffersonville.
 Bernice Emma Benedict, *SEd*, *Warner House*, Middlebury.
 Adelaide Phillips Bennett, *Sec*, 19 *Fletcher Pl.*, Bennington.
 Marshall Kruger Berger, *Bus*, *Phi Sigma Delta House*, Brockton, Mass.
 Anna Ruth Berman, *GS*, 83 *N. Willard St.*, Nantasket, Mass.
 Paul Van Wyman Berry, *SEd*, 209 *Colchester Ave.*, Hinesburg.
 Barbara Ruth Bishop, *Sec*, *Redstone*, Springfield.
 Leicia Annette Black, *Sec*, 216 *N. Willard St.*, Burlington.

- Ruth Marie Boelsen, GS, *Warner House*, Elmhurst, N. Y.
 Marion Charlotte Bonnett, GS, *Sanders Hall*, Orford, N. H.
 Milton Borofsky, SS, *Sigma Alpha Epsilon House*, Keene, N. H.
 Anne Hale Bottomley, SS, 95 *Adams St.*, Burlington.
 Norman Joshua Boyden, Jr., Bus, 515 *North St.*, Burlington.
 Priscilla Gifford Brayton, SS, *Slade Hall*, Fall River, Mass.
 William Moffett Bronson, Jr. Bus, 64 *N. Prospect St.*, Lancaster, N. H.
 Barbara Augusta Brown, SS, 98 *Brookes Ave.*, Torrington, Conn.
 Elizabeth Dutton Brown, Sec, *Slade Hall*, W. Hartford, Conn.
 Lester Putnam Brown, Jr., Bus, 39 *Brookes Ave.*, Pittsfield, Mass.
 John Stuart Burgess, SS, *Fern Hill*, Burlington.
 Everett James Burlando, SS, 128 *Colchester Ave.*, Dorchester, Mass.
 Gideon Sabin Burnham, Jr., Ch, 128 *Colchester Ave.*, Morrisville.
 Harold Frank Burroughs, SS, 407 *College St.*, Burlington.
 Barbara Butterfield, LS, 83 *N. Willard St.*, Manchester.
 Honorine Marie-Josophe Eugénie Cecile Carrier, SED, 32 *University Ter.*, St. Johnsbury.
 Isabelle Margaret Carter, GS, *Allen House*, St. Johnsbury.
 Steve Frank Catania, SS, M. *Converse Hall*, Garfield, N. J.
 Elizabeth Ball Chaffee, LS, *Allen House*, Enosburg Falls.
 Ethelyn Lois Chaffee, SS, *Redstone*, Enosburg Falls.
 Caroline Marie Christiansen, GS, *Slade Hall*, W. Hartford, Conn.
 James Bernard Clancy, GS*, *Sigma Nu Lodge*, Peekskill, N. Y.
 Emory Flagg Clark, GS*, M. *Converse Hall*, Windsor, Conn.
 Russell Leland Clark, Ch, S. *Converse Hall*, N. Springfield.
 Millicent Edmunds Clough, SS, 132 *Colchester Ave.*, Rutherford, N. J.
 Corinne Pratt Coffin, Sec, 21 *Robinson Ct.*, Burlington.
 Julius George Cohen, GS*, 27 *Loomis St.*, Burlington.
 Sumner Harold Cohen, GS*, *Phi Sigma Delta House*, Manchester Depot.
 Anne Bertha Cohn, GS*, *Prospect House*, Larchmont, N. Y.
 Marie Annette Connery, GS, *Redstone*, St. George, L. I., N. Y.
 Wilbert Leon Conrad, Jr., SED, 348 *College St.*, Morrisville.
 Nancy Frances Coon, SS, *Slade Hall*, Albany, N. Y.
 Elizabeth Tunstall Cooper, SS, *Campus House*, Merchantville, N. J.
 Roy Allyn Corell, GS*, 56 *Colchester Ave.*, Middletown, Conn.
 Clark Edward Corliss, Ch, 106 *Colchester Ave.*, St. Albans.
 George Demosthenes Corsones, SS, 165 *Main St.*, Rutland.
 Ralph William Crane, Jr., SED, 403 *College St.*, Stamford, Conn.
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 Peter Stanley Czachor, GS, 106 *Colchester Ave.*, Center Rutland.
 Frank Andrew Dalton, GS*, 42 *N. Willard St.*, Bridgeport, Conn.
 William Allen Daniels, Bus, *Phi Delta Theta House*, Bridgeport, Conn.
 Rita Davidson, SS, *Prospect House*, Brooklyn, N. Y.
 Helen Mary Davis, SED, 206 *Summit St.*, Morrisville.
 Louise Alethe Davis, SS, *Slade Hall*, Northfield.
 Lydia Louise Del Giudice, GS, 92 *Hungerford St.*, Waterbury.
 Catherine-Jean Dewart, LS, 85 *Mansfield Ave.*, St. Albans.
 Maria Juliet Dietrich, SS, 151 *Ledge Rd.*, Burlington.
 John Dominic Dimichele, GS*, 133 *Loomis St.*, Poultney.
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 Marguerite Julia Doheny, Sec, *Richmond*, Richmond.
 William Frederick Dooley, Jr., SS, 133 *Loomis St.*, Poultney.
 Walter Irving Dorion, SED, 16 *Booth St.*, Rutland.

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Harriet Pearson Dustan, *GS**, *Allen House*, Craftsbury Common.
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Herman Gerber, *GS**, *Phi Sigma Delta House*, Bennington.
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Nancy Guild Goodwin, *LS*, *Sanders Hall*, Tewksbury, Mass.
Gladys Mae Gorton, *SEd*, *132 Colchester Ave.*, S. Wallingford.
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Clayton Francis Gould, *Sp(SS)*, *522 North St.*, White River Junction.
Catherine Lillian Green, *GS*, *381 Main St.*, Brockton, Mass.
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John Albert Hamilton, *Bus*, *89 Buell St.*, Burlington.
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Alice Newton Howe, *LS*, *Slade Hall*, W. Toronto, Ont., Can.
James Orvis Howland, *GS**, *35 Brookes Ave.*, Windsor.
Roger Bryant Hunting, *SS*, *M. Converse Hall*, Springfield.
Barbara Jean Hyde, *SS*, *Redstone*, Upper Darby, Pa.
Betty Ailsa Ingalls, *Sec*, *Robinson Hall*, Fulton, N. Y.
Phyllis Ray Ingram, *GS**, *83 N. Willard St.*, Waynesboro, Pa.

- Charles Itzkowitz, GS*, *Tau Epsilon Phi House*, New London, Conn.
 Doris Olga Jareckie, SS, 132 *Colchester Ave.*, Madison, N. J.
 Ruth Evelyn Jones, LS, *Redstone*, Melrose, Mass.
 Jane Robinson Judd, LS, *Redstone*, Randolph Center.
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 James Thomas Kearney, GS, 106 *Colchester Ave.*, W. Rutland.
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 Mary Rose Kelty, Sec, 381 *Main St.*, Ridgewood, N. J.
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 James Wilbur Lake, SS, 106 *Colchester Ave.*, White Creek, N. Y.
 Phyllis Jean Lake, SS, *Allen House*, Saxtons River.
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 Marietta Kathleen Louise Larney, Cl, *Grassmount*, Noroton, Conn.
 James Rice Lawler, Bus, *Sigma Nu Lodge*, Reading, Mass.
 Bernard Jack Levinson, GS*, 27 *Loomis St.*, Brooklyn, N. Y.
 Irene Levinson, Sec, 381 *Main St.*, Hewlett, N. Y.
 Elizabeth Carol Linn, SS, *Allen House*, W. Dover.
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 Dorothy Ruth Manion, GS, 381 *Main St.*, Bridgeport, Conn.
 Christine Shirley Martin, SS, 14 *University Ter.*, Bakersfield.
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 Leon Joseph Menard, Jr., GS*, 5 *Handy Ct.*, Fall River, Mass.
 Joanna Jeanne Metcalf, GS*, *Slade Hall*, Waterbury.
 Philip John Mezzullo, Sp(GS), 98 *N. Prospect St.*, Rye, N. Y.
 Clark Gillette Miller, GS, 37 *N. Prospect St.*, W. Springfield, Mass.
 Janet Cameron Miller, SEd, 145 *Robinson Ct.*, Greenland, N. H.
 Ruth Arms Miller, Sec, *Grassmount*, Putney.
 Eugene Charles Moes, GS*, *M. Converse Hall*, E. Rutherford, N. J.
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 William Wolfe Musicant, GS*, 234 *Loomis St.*, Burlington.
 Harriet Sofia Nelson, GS*, *Slade Hall*, Proctor.
 Hayden Earle Newcity, GS*, 62 *S. Union St.*, Morrisville.
 William John Newcomb, Bus, 23 *Isbam St.*, Burlington.
 Murry Frank Newman, GS*, 512 *North St.*, Bridgeport, Conn.
 Clark Salisbury Nichols, Bus, *Phi Delta Theta House*, Jamaica Plain, Mass.
 Sylvia Noble, Bus, 381 *Main St.*, Windsor.
 Maxine Elizabeth Nute, LS, *Sanders Hall*, Barre.
 Donald Joseph Nutter, GS, 128 *Colchester Ave.*, New York, N. Y.
 Gilbert Burton Oakes, Ch, 24 *University Ter.*, Wakefield, Mass.
 William Francis O'Brien, GS*, 42 *N. Willard St.*, Bridgeport, Conn.
 Gloria Oling, SS, 83 *N. Willard St.*, Brooklyn, N. Y.
 Anne Seymour Olmsted, LS, *Slade Hall*, Winnetka, Ill.
 Calvin Olsham, Bus, *Phi Sigma Delta House*, Albany, N. Y.
 Donald Shane O'Neil, GS*, 22 *Converse Ct.*, Burlington.

- Mark Kinsley O'Toole, *Bus*, 206 Bank St., Leominster, Mass.
Harriet Ann Parker, *SEd*, 381 Main St., Springfield.
Chester William Hutchinson Partridge, *Ch*, Shelburne Rd., Burlington.
Charles Cole Patterson, *CT*, 41 University Ter., Walden.
Stanley John Pekala, *GS**, M. Converse Hall, Amherst, Mass.
Wallace Frank Penrose, *Bus*, 143 Locust St., Burlington.
John Madison Perry, *GS**, 147 Loomis St., Plainfield.
Judith Perry, *LS*, Redstone, Barre.
Catherine Marie Peterson, *SS*, Robinson Hall, Amherst, Mass.
Stanley Raymond Pike, Jr., *GS*, 406 S. Union St., Burlington.
Norma Marjorie Preston, *Sec*, 328 North Ave., Burlington.
Arthur George Quintiliani, *GS**, N. Converse Hall, New London, Conn.
Max Lawrence Resnick, *GS**, 88 N. Willard St., Mattapan, Mass.
Myers Jay Reynolds, Jr., *GS*, Sigma Phi Place, Malone, N. Y.
Harold Edward Rice, *Bus*, Van Ness Hotel, North Haven, Conn.
Harold William Rice, *GS**, 20 Greene St., Ashland, Ky.
Forrest Edward Rivers, *SS*, 147 Loomis St., Vergennes.
William Alexander Roeder, *Cl*, 128 Colchester Ave., Queens Village, N. Y.
Sara Elizabeth Rome, *SS*, Grassmount, Dobbs Ferry, N. Y.
David George Rousseau, *GS**, Alpha Tau Omega House, Grand Isle.
Marion Etta Roy, *Sec*, Robinson Hall, Malden, Mass.
Louis Michael Rozek, *GS**, M. Converse Hall, Berlin, N. H.
Bernard Rynowecer, *SS*, N. Converse Hall, New York, N. Y.
Virginia Safford, *GS*, 85 Mansfield Ave., Hudson, Mass.
Antoinette Josephine Salvator, *GS**, Redstone, Barton.
Elizabeth Ann Sargent, *GS*, 132 Colchester Ave., Lewiston.
Sanford Savin, *GS*, 75 Loomis St., Bridgeport, Conn.
James David Sawyer, *GS**, 260 S. Union St., St. Albans.
Robert Clayton Sayre, *Bus*, 139 N. Prospect St., Wadhamas, N. Y.
Charles Herbert Schaefer, Jr., *Ch*, M. Converse Hall, Cristobal, Canal Zone.
Miriam Ruth Schiller, *SS*, Grassmount, Cedarhurst, N. Y.
Sherburn Clyde Searl, Jr., *Bus*, 15 University Ter., Ludlow.
Harry Reid Seivwright, *Bus*, Kappa Sigma House, Montpelier.
Robert Warren Selvig, *Bus*, 35 Wilson St., Westfield, N. J.
Frederick Allen Shaw, *Ch*, 42 N. Willard St., S. Yarmouth, Mass.
Martha Ann Shaw, *GS*, 98 Brookes Ave., Carver, Mass.
Loren Wendell Shores, *LS*, 28 Brookes Ave., Barre.
Charles Ambrose Shortle, Jr., *GS**, 128 Colchester Ave., Milton, Mass.
Helen Silverman, *SS*, 98 Brookes Ave., Woodmere, L. I., N. Y.
James E. Simcox, *GS*, 39 Brookes Ave., S. Strafford.
Grace Watts Simpson, *SS*, Robinson Hall, Westfield, N. J.
Stanton Sirkin, *GS**, N. Converse Hall, New Britain, Conn.
Sidney Herbert Sisselman, *Bus*, Phi Sigma Delta House, Pittsfield, Mass.
Mary Pettee Skinner, *SS*, 381 Main St., New York, N. Y.
Franklin Wheatley Slater, Jr., *GS**, M. Converse Hall, New Milford, Conn.
Stanley Frank Slys, *GS**, M. Converse Hall, New Britain, Conn.
John Anthony Smith, *GS**, 116 N. Winooski Ave., Springfield.
Roger Frederick Smith, *GS**, 72 East Ave., Waitsfield.
Werner Newmann Snow, *Bus*, 1427 North Ave., Burlington.
John Joseph Spasyk, *SEd*, 136 Shelburne St., Pittsfield, Mass.
Ruth Spiwak, *Sec*, 381 Main St., W. Forest Hills, N. Y.
Robert Crandall Stewart, *Bus*, 15 University Ter., Montpelier.

John Joseph Stigliano, GS*, 121 *Loomis St.*, N. Bergen, N. J.
 Frank Howard Stimets, GS*, 76 *Brookes Ave.*, Burlington.
 James Albert Sudbay, Jr., GS*, 64 N. *Prospect St.*, Gloucester, Mass.
 Randall Ellsworth Sullivan, SED, 300 *Main St.*, Burlington.
 Waino Wiljo Suojanen, Bus, 348 *College St.*, Ludlow
 June Nathalie Swanson, Sec, *Robinson Hall*, Schenectady, N. Y.
 Abraham Swartz, GS*, *Phi Sigma Delta House*, Roxbury, Mass.
 William Pomroy Swift, Bus, 260 S. *Union St.*, Barnstable, Mass.
 Elizabeth Allen Taft, LS, 98 *Brookes Ave.*, Ashland, Ky.
 Joyce Barbara Talal, Ch, *Robinson Hall*, Milford, Conn.
 William Winston Talbert, Ch, 348 *College St.*, Waterbury.
 Janet Taylor, GS, 381 *Main St.*, Attleboro, Mass.
 Robert Dwight Thayer, Sec, 38 *Lafayette Pl.*, Burlington.
 Clement Joe Tomasi, GS*, 128 *Colchester Ave.*, Fair Haven.
 William Burke Tooles, GS*, 67 *Church St.*, Burlington.
 John Stuart Torrey, Bus, *Sigma Phi Place*, Yonkers, N. Y.
 Elmer Leonard Trefren, GS, 139 N. *Prospect St.*, Lyndonville.
 Robert Joseph Trimborn, Cl, 128 *Colchester Ave.*, Bellaire, N. Y.
 Norman Douglas Tucker, SS, *Sigma Phi Place*, Fitchburg, Mass.
 John Joseph Tully, SS, *Sigma Nu Lodge*, Lawrence, Mass.
 Samuel Turchyn, Ch, N. *Converse Hall*, Yonkers, N. Y.
 Clarence Edward Wade Ch, *Milton*, Milton.
 Raymond Asa Waite, Jr., LS, S. *Converse Hall*, Easthampton, Mass.
 Robert Donald Wakefield, GS, 262 *North Ave.*, Burlington.
 Alfred Samuel Walker, Jr., Bus, 37 N. *Prospect St.*, Wellesley Farms, Mass.
 Margaret Ward CT, 381 *Main St.*, N. Danville.
 Alexander Lee Warden, GS*, 141 *Mansfield Ave.*, W. Barnet.
 Arthur Bradley Warren, GS*, 163 *Loomis St.*, Hardwick.
 Walter Eugene Weisman, GS, *Fort Ethan Allen*, Fort Ethan Allen.
 Robert Homer Wells, Bus, 96 *Henry St.*, E. Fairfield.
 Arline Selma Wendel, SS, 381 *Main St.*, Cedarhurst, N. Y.
 Dean Herbert Wheeler, GS*, 72 *East Ave.*, Marshfield.
 John Joseph White, Bus, 206 *Bank St.*, Needham, Mass.
 Joseph Allen White, Jr., Bus, *Lambda Iota House*, Essex Fells, N. Y.
 Norma Elizabeth Wilbur, Sec, 19 *Fletcher Pl.*, Glover.
 Roxana Dorothy Wilmoth, GS, 25 *Russell St.*, Ludlow.
 Sarah Adelaide Wilson, SS, 381 *Main St.*, Gray, Me.
 Richard Bernard Winslow, GS*, 235 *Loomis St.*, Whitman, Mass.
 Helen Marie Witham, Sec, 41 S. *Prospect St.*, Burlington.
 Robert Wolfe, SS, 73 *Hyde St.*, Burlington.
 Patricia Earle Wood, Sec, 381 *Main St.*, Poughkeepsie, N. Y.
 Roxanna Mary Woodard, SS, *Allen House*, Hyde Park.
 Addie Joyce Woodruff, CT, *Jericho*, Jericho.
 Mary Jeanne Woolley, SS, 83 N. *Willard St.*, Glen Cove, N. Y.
 Jane Margaret Wray, Sec, 324 *Main St.*, Burlington.
 Jean Gertrude Young, SS, 32 *Brookes Ave.*, Elmhurst, L. I., N. Y.
 John Joseph Zellinger, GS*, 64 *Henry St.*, St. Albans.
 Mary Patricia Zullo, SED, *Warner House*, Manchester Center.

UNCLASSIFIED

Charlotte Fairbanks Adams, A.B., Sp(GS*), 119 *Spruce St.*, Burlington.
 Marjorie Bradford Adams, A.B., Sp, 199 *King St.*, Burlington.

Alfred Carleton Andrews, PH.D., *Sp*, 258 S. Willard St., Burlington.
 Helen Ulmer Blasberg (Mrs.), *Sp*, 315 Maple St., Burlington.
 Sarah Ann Brigham, *Sp*, 448 North Ave., Burlington.
 Guido Vincent Chigi, *Sp*, 71 S. Willard St., Burlington.
 Lawrence John Cleveland, A.B., *Sp*, 76 N. Willard St., Northfield.
 Joseph William Connelly, B.S., *Sp*(GS*), 35 Brookes Ave., Albany, N. Y.
 Ruth Ann Crowley, *Sp*, 7 S. Champlain St., Burlington.
 Laurence Patrick Daley, PH.B., *Sp*, 272 S. Winooski Ave., Burlington.
 Mary Louise Dee, A.B., *Sp*, 231 S. Prospect St., Hancock, Mass.
 Eugene Campbell Dresser, B.S., *Sp*, 49 Mansfield Ave., Burlington.
 Horace Byron Eldred, *Sp*(GS), Queen City Park, Queen City Park.
 Francis Patrick O'Toole, B.S., *Sp*, 72 Buell St., Burlington.
 Robert Augustus Rivers, PH.B., *Sp*, 23 Spruce St., Burlington.
 Florence Sylvia Steadman, *Sp*, 1 Handy Ct., Needham, Mass.
 Julius Walter Whitney, *Sp*(GS*), Nu Sigma Nu House, Salisbury.

THE COLLEGE OF ENGINEERING

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 Edward Milton Brown, EE, 389 S. Winooski Ave., Burlington.
 Francis Hugh Canary, ME, 37 N. Prospect St., Rutland.
 Eugene John Cerutti, CE, 91 Mansfield Ave., Plainfield.
 David Lambert Clark, EE, 275 Maple St., Burlington.
 Fay Miles Converse, ME, 119 Spruce St., Groton.
 Frederick Amadon Cross, EE, N. Converse Hall, Lancaster, N. H.
 Willard Orlin Hale, EE, *Lambda Iota House*, Windsor.
 Bernard Wilson Harriman, ME, 69 N. Willard St., Canaan.
 Vincent Charles Juskiewicz, *Sp*(EE), *Phi Delta Theta House*, Northampton, Mass.
 Francis Bernard Leary, EE, 202 East Ave., Burlington.
 Franklin Brown Mack, ME, *Kappa Sigma House*, Dover, Del.
 Elbridge Potter Mansfield, CE, 81 Grant St., Waterbury.
 Louis Dale Pierce, CE, *Delta Psi House*, St. Johnsbury.
 Clinton Alexander Renfrew, ME, *Delta Psi House*, St. Johnsbury.
 Seymour Hill Robinson, *Sp*(EE), 106 Colchester Ave., Bridgewater.
 William Angell Spelman, Jr., CE, 80 Colchester Ave., Rochelle Park, N. J.
 William Alfred Wheeler, Jr., ME, 241 Loomis St., Burlington.
 Gordon Kendrick Young, EE, 113 Buell St., Craftsbury Common.

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Walter Joseph Augustenovich, ME, 505 North St., Springfield.
 Everett Clark Bailey, EE, 12 Ludwig Ct., Burlington.
 Henri John Beauchemin, CE, *Kappa Sigma House*, Pittsfield, Mass.
 Herbert William Coburn, EE, *Lambda Iota House*, Newport.
 Edward Stone Cram, ME, 87 Shelburne Rd., Burlington.
 Robert Arthur Dudley, CE, 404 Pearl St., Bradford.

Elliott Franklin Hawkins, ME, *Williston*, Williston.
 Fred Stanley Heath, ME, 11 *Hickok Pl.*, Barton.
 Merriman Dunton Hull, EE, 91 *Mansfield Ave.*, Franklin.
 David Emanuel Johnson, Jr., CE, 210 *King St.*, Burlington.
 Forrest Arthur Johnson, ME, 83 *N. Winooski Ave.*, Thetford Center.
 William Proctor Koch, CE, 231 *Colchester Ave.*, Burlington.
 John Leo Kotuby, ME, *Lambda Iota House*, Rutland.
 Maurice Leonard Newton, ME, 58 *Buell St.*, Burlington.
 Alexander Raymond Pesarik, ME, 404 *Pearl St.*, Windsor.
 Elbert James Roberts, ME, 155 *Loomis St.*, 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.
 Walter Merle Smith, Jr., ME, *Kappa Sigma House*, Bloomfield, N. J.
 Richard Morgan Story, Jr., ME, 348 *College St.*, Yonkers, N. Y.
 Harold Raymond Westover, CE, 37 *Hungerford St.*, Burlington.
 Powell Joseph Whalen, CE, 394 *Pearl St.*, Burlington.
 Justus Baldwin Wheeler, CE, 59 *Buell St.*, Morrisville.
 Louis Basilio Zamboni, ME, 23 *Brookes Ave.*, S. Ryegate.

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Harold Goodnar Carlson, EE, *Free Dispensary*, Brattleboro.
 Herbert Adolphus Chesney, EE, 128 *Colchester Ave.*, Island Pond.
 Harry Bunal Coburn, EE, 233 *Pearl St.*, E. Montpelier.
 James Francis Patrick Corbett, ME, 206 *Bank St.*, N. Tonawanda, N. Y.
 John Henry Couture, EE, 28 *Hungerford St.*, Burlington.
 Edward Merrill Creed, ME, 37 *N. Prospect St.*, Rutland.
 John Francis Cronin, ME, 37 *N. Prospect St.*, Bennington.
 Harold Hedley Crossley, EE, 206 *Bank St.*, Gardner, Mass.
 Carlo Peter Domenichini, EE, 56 *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.
 Bernard William Hill, ME, *Sigma Nu Lodge*, Bennington.
 John Begley Kennedy, ME, 128 *Colchester Ave.*, Bridgeport, Conn.
 Maynard John Lawrence, EE, 106 *Pearl St.*, Akron, N. Y.
 Eugene Gross Link, ME, 128 *Colchester Ave.*, Stamford, Conn.
 Donald Argyle Morrison, EE, *Queen City Park*, S. Burlington.
 Gerald Imlah Palmer, CE, 282 *Colchester Ave.*, Williamstown.
 Melvin Clyde Phillips, EE, 243 *Colchester Ave.*, Moretown.
 James Buckley Pignona, ME, *Phi Delta Theta House*, Morristown, N. J.
 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.
 John Gerald Roche, EE, 162 *Loomis St.*, Granville, N. Y.
 James Albert Root, CE, 282 *Colchester Ave.*, Middlebury.
 Walter Gordon Seeley, EE, *Delta Psi House*, Middlebury.
 Horace Harrison Squire, Jr., CE, 348 *College St.*, Waterbury.
 Azel James Taggart, CE, 60 *Colchester Ave.*, Castleton.
 Owen Malcolm Van Hise, CE, *Delta Psi House*, Woodstock.

Peter Waterman, *EE*, 255 *S. Prospect St.*, Hartford, Conn.
 Robert Lyons Williams, *EE*, 34 *Elmwood Ave.*, Burlington.
 Harold Strong Willson, *CE*, 128 *Colchester Ave.*, Bethel.
 William Elwin Young, *ME*, 165 *Loomis St.*, Barre.

FRESHMEN—Class of 1942

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 Maurice Beliveau, *ME*, *Vergennes*, Vergennes.
 Leonard Stanley Berman, *EE*, 83 *Brookes Ave.*, Brookline, Mass.
 John Hamilton Carpenter, *ME*, 307 *S. Prospect St.*, Charlotte
 Donald Lyndon Clark, *EE*, 243 *Colchester Ave.*, Waitsfield.
 Orlando Richard Clark, *EE*, 128 *Colchester Ave.*, E. Montpelier.
 John Lawrence DeBella, *EE*, *M. Converse Hall*, Roxbury, Mass.
 Paul Allen Dicke, *ME*, 106 *Colchester Ave.*, Upper Montclair, N. J.
 Richard Young Dow, *CE*, 601 *Main St.*, Burlington.
 James Kelman Duncan, *ME*, 155 *Loomis St.*, Montpelier.
 George Spaulding Dunlop, *CE*, 96 *Henry St.*, Bakersfield.
 Donald Gordon Dunn, *EE*, 98 *Brookes Ave.*, Burlington.
 Richard Cunningham Eggleston, Jr., *CE*, *M. Converse Hall*, Morristown, N. J.
 Edward Bernard Godfrey, *ME*, *N. Converse Hall*, Beverly, Mass.
 Kenneth Martin Grout, *EE*, *M. Converse Hall*, Greenwood, Mass.
 Eric Adrian Hamilton, *CE*, *N. Converse Hall*, Centerport, N. Y.
 Katharine Clement Holden, *CE*, 433 *S. Union St.*, Burlington.
 Harvey Hart Hubbard, *EE*, 163 *Loomis St.*, St. Albans.
 Harold Orion Jones, *ME*, 55 *Loomis St.*, White River Junction.
 Matthew Raymond Kallman, *ME*, *S. Converse Hall*, Woodmere, N. Y.
 Edmond John Kodys, *CE*, *Hotel Van Ness*, Gardner, Mass.
 Mitchell Franz Lambert, *EE*, 128 *Colchester Ave.*, Barre.
 Malcolm Frederic Lavelle, *EE*, 276 *North St.*, Burlington.
 Frank Eugene McPherson, *EE*, *M. Converse Hall*, Roslindale, Mass.
 Robert Arthur Magnant, *EE*, 19 *Weston St.*, Franklin.
 John George Maniatty, *Sp(CE)*, 125 *St. Paul St.*, Barre.
 Melville Page Maurice II, *ME*, *Sigma Phi Place*, Underhill.
 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. Union St.*, Burlington.
 Rollin James Parker, *EE*, *Essex Junction*, Essex Junction.
 Robert Douglas Paterson, *CE*, *Y. M. C. A.*, Barre.
 Carl Arthur Pratt, Jr., *CE*, 67 *Buell St.*, Cuttingsville.
 Donald Homer Prior, *EE*, 38 *Converse Ct.*, Burlington.
 Merle Congdon Reynolds, Jr., *ME*, 42 *N. Willard St.*, W. Dennis, Mass.
 Carlton Joseph Rooney, *EE*, 243 *Colchester Ave.*, Jeffersonville
 Donald Milburn Sheldon, *ME*, *M. Converse Hall*, W. Springfield, Mass.
 Edward Thatcher Sibley, *ME*, 155 *Loomis St.*, Bennington.
 Eugene Sheldon Smith, *CE*, 83 *N. Winooski Ave.*, Ely.
 Roderick Lee Smith, *EE*, 72 *N. Willard St.*, Richford.
 George Clifton Stanley, Jr., *ME*, 86 *Loomis St.*, Burlington.
 James Humphrey Stephen, *CE*, *S. Converse Hall*, Copper Cliff, Ont., Can.
 William James Stetson, *CE*, *Colchester*, Colchester.

George Hazen Stickney, *CE*, 243 *Colchester Ave.*, E. Thetford.
 Sigmunt Joseph Sysko, *EE*, 116 *N. Winooski Ave.*, Bellows Falls.
 Merle Flagg Warren, *Sp (CE)*, *M. Converse Hall*, Waterbury.
 Harry Abel Way, *II, ME*, 216 *S. Prospect St.*, Burlington.
 John Malcolm White, *CE*, *M. Converse Hall*, Pittsford.
 Anthony Robert Zullo, *CE*, *N. Converse Hall*, Albany, N. Y.

THE COLLEGE OF AGRICULTURE

SENIORS—Class of 1939

Harriet Jean Anderson, *HE*, *Robinson Hall*, E. Craftsbury.
 Ruth Adele Bailey, *HE*, 12 *Ludwig Ct.*, Burlington.
 Charlotte Annabel Beatty, *HE*, 54 *Buell St.*, Burlington.
 Virginia Maxwell Bradway, *HE*, *Delta Delta Delta House*, Montpelier.
 Ellen Louise Brigham, *HE*, 448 *North Ave.*, Burlington.
 Lucille Clara Bristol, *HE*, *Kappa Alpha Theta House*, Burlington.
 Walter Edward Crandall, *Ag.*, *Essex Junction*, Essex Junction.
 Harold Jerry Haynes, *Ag*, 83 *N. Union St.*, E. Poultney.
 Miriam Priscilla Healy, *HE*, *Pi Beta Phi House*, W. Hartford, Conn.
 Chesley Peck Horton, *Ag*, *Delta Psi House*, Brandon.
 Lois Ward Jackson, *HE*, 565 *Main St.*, Brattleboro.
 Francis Clark Leonard, *Ag*, 43 *N. Willard St.*, Orwell.
 Charles William Livak, *Ag*, 12 *Brookes Ave.*, Rutland.
 Festus Joseph McDonough, *Ag*, *Kappa Sigma House*, Woburn, Mass.
 Francis Edgar Marsceill, *Ag*, 83 *N. Union St.*, Bristol.
 Stanley Lintner Nichols, *Ag*, 28 *Brookes Ave.*, Burlington.
 Thelma Ruth Packard, *HE*, 12 *Grant St.*, Burlington.
 Estaleen Morgan Perkins, *HE*, 278 *Pearl St.*, Burlington.
 Flora Elizabeth Perley, *HE*, *Alpha Chi Omega House*, Richford.
 Dorothy Jenne Platt, *HE*, *Slade Hall*, Brooklyn, N. Y.
 Robert Ellsworth Plumb, *Ag*, *Delta Psi House*, Springfield.
 Martha Weller Rist, *HE*, *Kappa Alpha Theta House*, Burlington.
 Raymond Richard Rogers, *Ag*, 83 *N. Union St.*, W. Glover.
 Mary Pauline Rowe, *HE*, *Alpha Chi Omega House*, Barnet.
 Howard Henry Russell, *Ag*, 348 *College St.*, Hinesburg.
 Bernard Rutstein, *Ag*, 311 *S. Union St.*, Burlington.
 Margaret Orr Stanley, *HE*, *Alpha Chi Omega House*, Enosburg Falls.
 William Willard Stone, *Ag*, *Sigma Nu Lodge*, Springfield.
 Betsey Alden Taylor, *HE*, *Redstone*, Hartford, Conn.
 Rita Alvina Thabault, *HE*, *Winooski*, Winooski.
 Hope Elizabeth Wheeler, *HE*, *Sanders Hall*, Marshfield.
 Alice Elizabeth Whitney, *HE*, *Alpha Chi Omega House*, Springfield.
 Robert Morrison Young, *Ag*, 567 *St. Paul St.*, Starksboro.

JUNIORS—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*, *Grassmount*, Vergennes.
 Richard Edward Dana, *Ag*, 28 *Latham Ct.*, N. Pomfret.
 Katherine Everil Davis, *HE*, 565 *Main St.*, Wilmington.
 Laura Corbin Dustan, *HE*, *Grassmount*, 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.*, New Haven.
 Harry Mack Ketcham, *Ag*, 348 *College St.*, 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*, 32 *S. Union St.*, Townshend.
 Jean Margaret Morse, *HE*, 475 *Main St.*, Essex Center.
 Howard Fremont Nelson, *Ag*, 49 *University Ter.*, E. Rygate.
 Elizabeth Orton, *HE*, *Delta Delta Delta House*, Montreal, Que., Can.
 Harold Gordon Page, *Ag*, 60 *Colchester Ave.*, Groton.
 Lucien Demers Paquette, *Ag*, 43 *Latham Ct.*, Craftsbury.
 George Pitman, *Ag*, *Alpha Tau Omega House*, Shaftsbury.
 Helen Louise Reed, *HE*, 565 *Main St.*, Fair Haven.
 Lawrence Martin Rice, *Ag*, *Delta Psi House*, Mendon.
 Hugh John 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*, 159 *Loomis St.*, Schenectady, N. Y.
 Charles Harold Sheldon, *Ag*, 24½ *Brookes Ave.*, Fair Haven.
 Marion Alice Skinner, *HE*, 29 *Mansfield Ave.*, Orleans.
 Eunice Hersey Slayton, *HE*, *Redstone*, Hardwick.
 David Ernest Stowell, *Ag*, *Sigma Nu Lodge*, Bellows Falls.
 Jean Genevieve Szyman, *HE*, *Slade Hall*, Claremont, N. H.
 Helen Phyllis Towne, *HE*, 306 *Colchester Ave.*, Milton.
 Merlin Jerome Wells, *Ag*, 233 *Pearl St.*, Plainfield.
 Robert Ellis White, *Ag*, 60 *Colchester Ave.*, E. Ryegate.
 Elizabeth Gertrude Whitney, *HE*, *Robinson Hall*, Montpelier.
 John Sidney Whitworth, *Ag*, 60 *Colchester Ave.*, Warren.
 Kathryn Emma Wortheim, *HE*, *Delta Delta Delta House*, Richmond.

SOPHOMORES—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*, 159 *Loomis St.*, Springfield, Mass.
 Hester Nettie Carver, *HE*, *Grassmount*, Weston.
 Elmer Luther Chatfield, *Ag*, 164 *Cherry St.*, Brandon.
 Caroline Edith Clough, *HE*, 56 *N. Willard St.*, Charlotte.
 Robert Davis Copp, *Ag*, *S. Burlington*, S. Burlington.
 Mildred Virginia Creamer, *HE*, *Prospect House*, Ridley Park, Pa.
 Harold Robert Cushman, *Ag*, 60 *Colchester Ave.*, Vergennes.
 Robert Percy Davis, *Ag*, *Delta Psi House*, Morrisville.
 Ruth Wright Davis, *HE*, 51 *N. Willard St.*, South Hero.
 Elizabeth Catherine Doud, *HE*, 63 *Greene St.*, New Haven.

Laura Ann Douglas, *HE, Allen House*, Shoreham.
 Madge Eleanor Duba, *HE, 28 Brookes Ave.*, Burlington.
 Dorothy Francis Emerson, *HE, Campus House*, Northfield.
 Mary Bernadine Esielionis, *HE, 323 Pearl St.*, Shirley, Mass.
 Kenneth Jay Estey, *Ag, 112 Adams St.*, Hinesburg.
 Ralph Frederick Evans, *Ag, 60 Colchester Ave.*, Groton.
 Mary Arlene Fitzsimonds, *HE, Sanders Hall*, Jericho.
 Evelyn Merrill Fuller, *HE, 252 Colchester Ave.*, Chester Depot.
 Walter Atwood Gage, *Ag, 34 Williams St.*, Burlington.
 Edson Emery Gifford, Jr., *Ag, 270 Pearl St.*, E. Bethel.
 Howard Oliver Gilmore, *Ag, 634 Main St.*, Tinnmouth.
 Betty Doris Gordon, *HE, Prospect House*, Brooklyn, N. Y.
 Madeline Ruth Greaves, *HE, Alpha Chi Omega House*, Morrisville.
 Elizabeth Louise Gurney, *HE, 416 S. Willard St.*, Burlington.
 Mary Jane Hammond, *HE, Campus House*, New York, N. Y.
 Laura Ruth Hawley, *HE, Allen House*, New Rochelle, N. Y.
 Robert Francis Irish, *Ag, Essex Junction*, Essex Junction.
 Elizabeth Charity Isham, *HE, 44 Charlotte St.*, Burlington.
 Nancy Rodgers Jones, *HE, 50 Robinson Ct.*, Belmont, Mass.
 Kathleen Ruth LeBaron, *HE, 381 Main St.*, Hinesburg.
 Frank Howard Livak, *Ag, 12 Brookes Ave.*, Rutland.
 Harold Bernard MacDonald, Jr., *Ag, 348 College St.*, Woburn, Mass.
 Barbara Read McIntosh, *HE, 252 Colchester Ave.*, S. Royalton.
 Barbara Jessie Mann, *HE, Robinson Hall*, N. Easton, Mass.
 Shirley Watts Mayforth, *HE, Robinson Hall*, Barre.
 Curtis Arthur Moore, *Ag, University Farm*, Weston.
 James Harold Nelson, *Ag, 49 University Ter.*, E. Ryegate.
 Dawn Emily Nichols, *HE, Malletts Bay Club*, Winooski.
 Dorothy Grace Nichols, *HE, Malletts Bay Club*, Winooski.
 Elmer Lincoln Nichols, *Ag, 28 Brookes Ave.*, Westminster.
 Francis Walter Nye, *Ag, 60 Colchester Ave.*, Barton.
 Ernest Frederick Paquette, *Ag, 43 Latham Ct.*, Craftsbury.
 Gertrude Louise Peters, *HE, Redstone*, Bradford.
 Irene Valentina Prondecki, *HE, Campus House*, Turners Falls, Mass.
 Madeline Flora Puffer, *HE, 56 N. Willard St.*, Townshend.
 Marian Lucy Rice, *HE, Robinson Hall*, Mendon.
 Marion Aletta Root, *HE, Campus House*, Burlington.
 Beatrice Satter, *HE, 56 University Ter.*, Bennington.
 Mary Eleanor Shandoff, *HE, Alpha Xi Delta House*, Burlington.
 Rae Gwendolyn Sheehan, *HE, 29 Mansfield Ave.*, Newport.
 Ransom Orcutt Slack, *Ag, Delta Psi House*, Randolph Center.
 George Merrill Ward, *Ag, 60 Colchester Ave.*, New Haven.
 Virginia Evelyn Weyell, *HE, Warner House*, Winsted, Conn.
 Harry Ernest Wheeler, *Ag, 60 Colchester Ave.*, W. Charleston.
 Jeannette Lucille Whipple, *HE, 50 Robinson Ct.*, Montpelier.
 Howard Harvey Whitcomb, *Ag, Y. M. C. A.*, Ely.
 Audrey May Wilcox, *HE, Shelburne*, Shelburne.

FRESHMEN—Class of 1942

Verna Margaret Allen, *HE, 38 Hickok Pl.*, Burlington.
 Richard Sperry Beinecke, *Ag, S. Converse Hall*, Madison, N. J.

Wilfred Henry Bourdeau, Ag, 60 Colchester Ave., Middlebury.
 Maurice Guy Buzzell, Jr., Ag, 60 Colchester Ave., Pittsford.
 Floyd Walter Campbell, Ag, 83 N. Winooski Ave., Strafford.
 Robert Lackie Carlson, Ag, 62 S. Union St., S. Ryegate.
 Lucille Vian Clark, HE, Allen House, Rutland.
 Wanda Emma Cobb, HE, Allen House, Rutland.
 Warren Baker Collins, Ag, 173 Loomis St., Colchester.
 Russell Samuel Corbin, Ag, S. Converse Hall, Leonia, N. J.
 Douglas Putnam Dana, Ag, 28 Latham Ct., N. Pomfret.
 Mary Randall De Yoe, HE, 98 Brookes Ave., Paterson, N. J.
 Colin Campbell Drown, Ag, S. Converse Hall, Newport.
 Hilda Verne Ebare, HE, 252 Colchester Ave., Fairfax.
 Catherine Helena Farrell, HE, Shelburne, Shelburne.
 Helen May Finch, HE, Robinson Hall, Schenectady, N. Y.
 Antoinette Joan Blanche Girard, HE, Redstone, Winsted, Conn.
 Sylvia Cora Guay, HE, Redstone, St. Albans.
 Shirley Anne Hall, HE, Sanders Hall, E. Randolph.
 Charlotte Elisabeth Heath, HE, Campus House, W. Haven, Conn.
 Chester Arthur Holzman, Ag, N. Converse Hall, Brooklyn, N. Y.
 Carol Dorothy Isaksen, HE, 381 Main St., St. Albans, N. Y.
 Ellen Agnes Isham, HE, 29 Adsit Ct., Burlington.
 Theodore Kambour, Jr., Ag, 60 Colchester Ave., Montpelier.
 Joyce Kenyon, HE, Richmond, Richmond.
 Gail Ferguson Klinger, HE, Warner House, Glen Ridge, N. J.
 Elizabeth Krase, HE, 83 N. Willard St., Swarthmore, Pa.
 Katherine Terese Kyle, HE, 145 Robinson Ct., Brandon.
 Lillian Conant Landon, HE, Redstone, New Haven.
 William Patrick Leamy, Ag, 130 N. Winooski Ave., Fair Haven.
 Jeannette Rose Levin, HE, 103 Shelburne St., Burlington.
 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, 49 Henderson Ter., Cambridge.
 Pearl Rogene Marvin, HE, 306 Colchester Ave., Fairfax.
 Cortice Edward Mayville, Jr., Ag, Milton, Milton.
 Frances Ann Merritt, HE, Redstone, Utica, N. Y.
 Ruth Belding Norcross, HE, Warner House, Monson, Mass.
 Ruth Evelyn Orr, HE, 25 Russell St., Vershire.
 Hilda Leone Paquette, HE, 43 Latham Ct., Craftsbury.
 Lilyn Leona Parizo, HE, Essex Junction, Essex Junction.
 Lawrence John Partridge, Ag, 91 Mansfield Ave., Barre.
 Gratia Houghton Pearl, HE, 154 Summit St., Burlington.
 Merton Sabin Pike, Ag, 54 Brookes Ave., Stowe.
 Edith Louise Pinkerton, HE, 98 Brookes Ave., Montclair, N. J.
 Barbara Lois Potter, HE, Campus House, Middlebury.
 John Holden Pratt, Jr., Ag, 106 Colchester Ave., N. Clarendon.
 Alice Beatrice Reichman, HE, 98 Brookes Ave., New York, N. Y.
 Hester Doris Rice, HE, 83 N. Willard St., Derby Line.

Scott David Rowden, *Ag, N. Converse Hall*, Wells River.
 Louise Mary Rugg, *HE, Slade Hall*, Essex Junction.
 Janice Ellen Russell, *HE, 21 Henderson Ter.*, Hinesburg.
 Janet Elizabeth Rust, *HE, 73 Pine St.*, Burlington.
 Graham Sabre, *Ag, S. Converse Hall*, Providence, R. I.
 Ethel Grace Schermerhorn, *HE, 340 North St.*, Essex Junction.
 Arnold Chauncey Smith, *Ag, 19 Weston St.*, Barton.
 Martha Jane Stearns, *HE, 50 Robinson Ct.*, St. Johnsbury.
 Norman Renwick Stoddard, *Ag, 26 Fletcher Pl.*, Groton.
 Glenn Clayton Streeter, *Ag, 28 Latham Ct.*, E. Concord.
 Virginia Elinor Taplin, *HE, Allen House*, Fair Haven.
 Jerrold Joseph Thomas, *Ag, Shelburne*, Shelburne.
 John Merritt Thomas, *Ag, 106 Colchester Ave.*, Rutland.
 Shirley May Tuthill, *HE, 83 N. Willard St.*, Hardwick.
 William Chester Walker, Jr., *Ag, 91 Mansfield Ave.*, Cabot.
 Charles Alymer Webster, *Ag, 19 Weston St.*, Orleans.
 Frederick Henry Webster, *Ag, 19 Weston St.*, Orleans.
 Barbara Ann Wilcomb, *HE, Redstone*, St. Johnsbury.
 Lucy Jean Williams, *HE, Sanders Hall*, Charlotte.
 Charles Archibald Wilmot, *Ag, 200 Pearl St.*, E. Thetford.
 Harriet Lee Woods, *HE, Sanders Hall*, Waterbury.
 Beatrice Cecelia Wright, *HE, 83 N. Willard St.*, Windsor.

*THE DEPARTMENT OF EDUCATION

SENIORS—Class of 1939

Evelyn Abbie Allyn, *Redstone*, Island Pond.
 Dorothy Helen Blaise, *41 Caroline St.*, Burlington.
 Mary Agnes Burke, *Winooski*, Winooski.
 Helen Doris Cook, *27 Adsit Ct.*, Middlebury.
 Flora Margaret Darling, *26 University Ter.*, Craftsbury.
 Lena Lucy Domenichini, *26 University Ter.*, N. Adams, Mass.
 Marjorie Alice French, *48 Colchester Ave.*, Hinesburg.
 Elizabeth Marion Loop, *46 School St.*, Burlington.
 Margaret Jane Johnston MacMartin, *355 S. Union St.*, Burlington.
 Louise Catherine Mann, *Essex Junction*, Essex Junction.
 Loretta Cora Maynard, *27 Colonial Sq.*, Starksboro.
 Shirley Williams Miller, *Redstone*, Putney.
 Willard Grant Norton, *MusEd, M. Converse Hall*, Richmond, Me.
 Helen Rose Pattrell, *Sanders Hall*, Norwich.
 Ralph Harmon Percival, *MusEd, 42 N. Winooski Ave.*, Burlington.
 Helen Elizabeth Squire, *26 University Ter.*, Waterbury.
 Muriel Audra Thacher, *Campus House*, N. Pomfret.
 Celia Adella Thompson, *92½ S. Winooski Ave.*, Bristol.
 Constance Marie-Ann Marguerite Trottier, *20 Fletcher Pl.*, Wilder.
 Margaret Rose Tynan, *159 S. Union St.*, Arlington.

* The curriculum is Elementary Education unless otherwise noted.

JUNIORS—Class of 1940

Helen Louise Berry, *Alpha Chi Omega House*, Brattleboro.
 Robert Bolkum Brock, 62 S. Union St., Groton.
 John Charles Brosseau, 43 *Fletcher Pl.*, Highgate Falls.
 Louise Muriel Brown, 239 S. Prospect St., St. Johnsbury.
 Gertrude Elizabeth Burbank, 56 N. Willard St., Chelsea.
 Lina Josephine Caravatti, 70 *School St.*, S. Ryegate.
 Claire Katherine Delaney, 11 S. Union St., Middlebury.
 Antoinette Marie De Larichelière, S. Burlington, S. Burlington.
 Marguerite Ellen Doe, *Warner House*, Bradford.
 Patricia DuBois, 565 *Main St.*, N. Troy.
 Veleida Louise Fleming, *Allen House*, Bennington.
 Eleanor Hall Fletcher, *Robinson Hall*, Woodstock.
 Jean Elizabeth Foster, 56 N. Willard St., Groton.
 Madeline Gallo, 56 N. Willard St., White River Junction.
 Joyce Lizbeth Gardner, *MusEd*, 565 *Main St.*, Cabot.
 Alice Mary Heath, 159 *Loomis St.*, Barton.
 Mary Jane Howe, *Slade Hall*, Tunbridge.
 Alice Belle Hudson, 144 *Ledge Rd.*, Burlington.
 Margaret Ethelda Iby, 2 *Canfield St.*, Burlington.
 Lillian Adela Jay, *Delta Delta Delta House*, Wardsboro.
 Hilda Mae LaDeau, 421 *North St.*, Fairlee.
 Mary-Jane Lechnyr, *MusEd*, 10 *Russell St.*, Burlington.
 Edna Carolyn Liese, 48 *Colchester Ave.*, Chelsea.
 Kathleen Elizabeth Lowell, 63 *Greene St.*, New Haven.
 Frances Ruth Mack, *Robinson Hall*, Graniteville.
 Helen Ruth Maeck, *MusEd*, *Shelburne*, Shelburne.
 Edna Mae Marsett, *Robinson Hall*, Shelburne.
 Mary Pasona Mele, *Malletts Bay*, Malletts Bay.
 Rose Agatha Miele *Allen House*, Ludlow.
 Esther Beatrice Moore, 14 *University Ter.*, Fair Haven.
 Lois Clarissa Murray, 565 *Main St.*, Richmond.
 Kathleen Mary Naramore, 56 N. Willard St., Lowell.
 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, *Sanders Hall*, Jamaica.
 Carol Susan Westall, 46 *Robinson Ct.*, Richmond.

SOPHOMORES—Class of 1941

Bertha Mae Bapp, 31 *Hungerford St.*, Underhill.
 Wayne Russell Barrows, *MusEd*, 104 S. Union St., Burlington.
 Lorraine Corrinne Best, *Winooski*, Winooski.
 Hiram Orlando Bevins, *MusEd*, *Milton*, Milton.
 Barbara Katharine Blodgett, 49 *Mansfield Ave.*, Montgomery Center.
 Claire-Marie Virginia Bosworth, *MusEd*, *Prospect House*, New York, N. Y.
 Glendine Frances Boynton, 14 *University Ter.*, S. Pomfret.
 Christine Agnes Burbank, 19 *Fletcher Pl.*, Walden Heights.
 Helen Frances Carr, 422 *North St.*, Burlington.

Lorraine Carver, 171 *Lyman Ave.*, Burlington.
 Margaret Jeannette Cass, *Allen House*, Springfield.
 Alice Elizabeth Cole, *MusEd, Redstone*, Barre.
 Ruth Marion Conner, *Allen House*, Barton.
 Idora Gertrude Cooley, *Alpha Xi Delta House*, Randolph Center.
 Margaret Esherick, *Kappa Alpha Theta House*, Philadelphia, Pa.
 Nita Thelma Falby, 64 *Bradley St.*, Burlington.
 Florence Alfreda Gilmore, 49 *Mansfield Ave.*, Weybridge.
 Doris Elaine Goodell, 14 *University Ter.*, Pomponoosuc.
 Madelyn Joyce Goodhue, *Sanders Hall*, Fairfax.
 Barbara Macomber Hall, 49 *Mansfield Ave.*, Fairfax.
 Margaret Frieda Hamm, *R. F. D. No. 2*, Burlington.
 Ora Gladys Heywood, 29 *Wilson St.*, E. Ryegate.
 Mary Elizabeth Hosley, *Sanders Hall*, Manchester Center.
 Alyce Mary Johnson, 9 *S. Union St.*, Brandon.
 Thelma King, 32 *University Ter.*, Island Pond.
 Reba Maude Leach, 14 *University Ter.*, Fairfax.
 Cleo Lovina Lovett, 333 *S. Prospect St.*, Bennington.
 Katherine Mary Mack, 29 *Mansfield Ave.*, Vergennes.
 Jessie Margaret McKinley, 139 *N. Willard St.*, Wells River.
 Thomas Keeshon Malone, Jr., *MusEd, 69 Brookes Ave.*, Burlington.
 Madeline Elsie Martin, *Milton*, Milton.
 Bettina Mary Miner, 63 *Greene St.*, Hinesburg.
 Chester Earl Minkler, *MusEd, 11 Grant St.*, Proctor.
 Doris Lilyan Mumley, 63 *Greene St.*, Alburg.
 Marianna Louise Palmer, *MusEd, Prospect House*, Middlebury.
 George Readington Pease, 134 *Ferguson Ave.*, Burlington.
 Evelyn Ann Perkins, *Alpha Xi Delta House*, St. Albans.
 Louis Pichierri, *MusEd, 60 Grove St.*, Burlington.
 Betty Pike, *Allen House*, Walden.
 Rose DeLima Poquette, 6 *Shelburne St.*, Grand Isle.
 Paul Raymond Poulin, *MusEd, 11 Grant St.*, Burlington.
 Elaine Julia Pratt, *Warner House*, Vergennes.
 Frances Allen Rogers, *Warner House*, Townshend.
 Dorothy Schwenger, *MusEd, Redstone*, Northfield.
 Kathryn Marie Silliman, 76 *King St.*, Burlington.
 Janice Maurine Spear, 81 *Buell St.*, St. Albans.
 Madeline Edna Tatro, 14 *University Ter.*, Highgate Center.
 Oletha Nelia Thompson, 29 *Mansfield Ave.*, Bristol.
 Virginia Mercedese Tremblay, 29 *Mansfield Ave.*, Highgate Center.

FRESHMEN—Class of 1942

Shirley Isabel Barney, 19 *Fletcher Pl.*, Swanton.
 Frances Mona Bellman, *Colchester*, Colchester.
 Mildred Edna Belville, 164 *N. Union St.*, Barre.
 Mary Spear Bissell, *Allen House*, Saxtons River.
 Orrin Marnald Brawn, *MusEd, 89 Buell St.*, Portland, Me.
 Barbara Ruth Brewster, *Essex Junction*, Cambridge.
 Ethel Lucille Brooks, 49 *Henderson Ter.*, Middlebury.
 Ernest Vail Burroughs, 407 *College St.*, Burlington.
 Millicent Hoyt Butterfield, 32 *Brookes Ave.*, St. Johnsburg.

June Elizabeth Cook, 19 *Fletcher Pl.*, Wilder.
 Alexandrina Georgette Coutu, 32 *University Ter.*, Westfield.
 Barbara Emma Dane, *Allen House*, Cabot.
 Anita Theresa DiBona, 49 *Henderson Ter.*, Barre.
 Dorothy Ruth Dickinson, 14 *University Ter.*, Bellows Falls.
 Martha Lynette Doe, *MusEd*, *Warner House*, Bradford.
 Celia Fleischmann, 39 *Bright St.*, Burlington.
 Ernestine Martha Frecheart, 139 *N. Willard St.*, Orleans.
 Jean French Hall, *MusEd*, *Charlotte*, Charlotte.
 Nora Eunice Hill, *MusEd*, 139 *N. Willard St.*, Lyndon Center.
 Helen Frances Huckabee, 139 *N. Willard St.*, Randolph Center.
 Evelyn Pearl Kellett, 63 *Greene St.*, Waterbury Center.
 Dorothy Frances McCormick, 83 *N. Willard St.*, Burlington.
 Catherine Wilson McDonald, 98 *Brookes Ave.*, Danville.
 Jean Luise McMahon, *Sanders Hall*, Barre.
 Margaret Elizabeth McPherson, 25 *Russell St.*, Graniteville.
 Mildred Arlene McRae, 40 *University Ter.*, St. Johnsbury.
 Irene Beverly Manseau, 370 *Maple St.*, Burlington.
 Lorraine Elsie Martin, 112 *N. Champlain St.*, Burlington.
 Ruth Madeline Mongeon, *Winooski*, Winooski.
 Dorothy Hannah Murphy, 455 *North St.*, Burlington.
 Patricia Nadeau, *Warner House*, Madison, Conn.
 James David Neill, 110 *College St.*, Randolph.
 Phyllis Charlene Ovirt, *MusEd*, 49 *Henderson Ter.*, Enosburg Falls.
 Myrtle Edith Raymond, *Redstone*, Bridgewater.
 June Everen Riddle, *Warner House*, Graniteville.
 Dorothy Norma Rockwell, *MusEd*, 25 *Russell St.*, Alburg.
 Margaret Joy Sandall, 23 *Catherine St.*, Burlington.
 Charlotte Louise Scott, 198 *East Ave.*, Burlington.
 Ethel Bartlett Shippee, *Sanders Hall*, W. Dover.
 Margaret Elizabeth Tackley, 83 *N. Willard St.*, Malone, N. Y.
 Lorraine Mae Thibault, 63 *Greene St.*, Waterbury.
 Grace Ellen Thompson, 252 *Colchester Ave.*, Milton.
 Alverette Marcia Torrey, 340 *North St.*, Vergennes.
 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.
 Ida Angelia Welch, 19 *Fletcher Pl.*, Groton.
 Hazen Francis Wood, 110 *College St.*, Randolph.
 Marian Ruth Wool, 20 *Latham Ct.*, Burlington.

UNCLASSIFIED

Donald Roy Gage, *MusEd*, 16 *Adams St.*, Lyndonville.
 Mae Evelyn Fullington Gates (Mrs.), *Sp(MusEd)*, *Franklin*, Franklin.
 Effie Evelyn Winn, *Sp(MusEd)*, 241 *N. Willard St.*, Burlington.
 Annie Pickett Wood (Mrs.), *Sp(ElEd)*, 55 *N. Willard St.*, Burlington.

THE COLLEGE OF MEDICINE

SENIORS—Class of 1939

Joseph Aloysius Astone, 40 *Front St.*, Beacon, N. Y.
 Barbara Beardslee, 15 *N. Williams St.*, Springfield.
 Paul Cohen, B.S., 51 *Brookes Ave.*, Woonsocket, R. I.
 James Everett Crane, B.S., *Sigma Phi Place*, Stamford, Conn.
 Richard Barre Davis, B.S., 199 *King St.*, Readsboro.
 Amore Del Giudice, B.S., 92 *Hungerford St.*, Waterbury.
 Raymond Carl Densmore, B.S., 187 *Loomis St.*, Burlington.
 William Bernard Ferriter, B.S., *Alpha Tau Omega House*, Brattleboro.
 Herbert Edward Fitch, Jr., B.S., 132 *Loomis St.*, Burlington.
 Thomas Gleason Fitzgerald, B.S., 40 *Front St.*, Albany, N. Y.
 John Carl Greenan, B.S., 43 *N. Willard St.*, Berlin, N. H.
 James Garfield Grimes, Jr., *Fanny Allen Hospital*, Dumont, N. J.
 William Henry Heininger, 308 *College St.*, Burlington.
 Clifton Dexter Howe, B.S., 217 *S. Union St.*, Burlington.
 Linus James Leavens, P.H.B., 28 *Loomis St.*, St. Albans.
 Julius Richard Levin, B.S., 38 *Bright St.*, Burlington.
 Hyman Bernard Levine, B.S., 212 *Park St.*, Burlington.
 John Van Sicklen Maack, B.S., *Shelburne*, Shelburne.
 Raymond George Mainer, *Nu Sigma Nu House*, New Britain, Conn.
 Roger Wendell Mann, A.B., 67 *Brookes Ave.*, Waterville.
 Abraham Jack Moskovitz, B.S., 24 *St. Louis St.*, Burlington.
 Belmont Stanley Musicant, B.S., 234 *Loomis St.*, Burlington.
 Robert Williston Nevin, B.S., 62 *S. Union St.*, Edgartown, Mass.
 Abraham Oppenheim, B.S., A.B., 61 *N. Willard St.*, New York, N. Y.
 Platt Rugar Powell, B.S., 462 *S. Willard St.*, Milton.
 William Joseph Powers, B.S., *Fanny Allen Hospital*, Rutland.
 Burnett Sheldon Rawson, *Williston*, Williston.
 Albert Ira Robbins, B.S., 267 *Pearl St.*, Roxbury, Mass.
 Jacob Frederick Rommel, Jr., B.S., *Nu Sigma Nu House*, Oneida, N. Y.
 Richard Woodhull Rommel, B.S., *Nu Sigma Nu House*, Oneida, N. Y.
 Charles Brush Rust, 73 *Pine St.*, Burlington.
 George Millar Sabin, Jr., B.S., 217 *S. Union St.*, Burlington.
 Andrew Irving Ephriam Schildhaus, B.S., *Shelburne*, Shelburne.
 Arthur Pierre Stebbins, B.S., *Shelburne Rd.*, S. Burlington.
 Maurice James Walsh, B.S., 114 *Buell St.*, Burlington.
 Edwin Conrad Weinraub, B.S., 4 *Cedar Lane*, New York, N. Y.
 Bernard Weiss, B.S., 234 *Loomis St.*, Brooklyn, N. Y.
 Ruth Mitchell White, B.S., 159 *S. Union St.*, Brattleboro.

JUNIORS—Class of 1940

Howard Huntington Allen, *Nu Sigma Nu House*, Greensboro.
 Sidney Alpert, B.S., 286 *Pearl St.*, Lakewood, N. J.
 Harry Joseph Antoniewicz, 404 *Pearl St.*, Springfield.
 Joseph Michael Baker, D.M.D., 16 *Brookes Ave.*, Brattleboro.
 Lewis Willard Barton, B.S., 59 *Buell St.*, Lexington, Mass.
 Sanford Raphael Bloomenthal, B.S., 350 *North St.*, Burlington.

Joseph Thomas Bottamini, B.S., *Nu Sigma Nu House*, Brandon.
 John Harold Browe, A.B., 28 *Bradley St.*, Burlington.
 Burton Donald Bryan, A.B., *Mary Fletcher Hospital*, Montpelier.
 Roy Vedder Burtles, B.S., 457 *S. Willard St.*, Burlington.
 Clarence Lucian Chester, B.S., 24½ *Brookes Ave.*, Cabot.
 Paul Merrill Choate, B.S., 165 *Loomis St.*, W. Barnet.
 Howard Rawson Clement, B.S., 39 *Brookes Ave.*, Newport.
 Raynald Thomas Cooney, 343 *College St.*, Burlington.
 Kermit Stephen Dugan, B.S., *Williston Rd.*, Newport Center.
 John Ralph Evans, Jr., B.S., 266 *Main St.*, S. Orange, N. J.
 John Frederic Gowdey, B.S., 16 *Brookes Ave.*, Montpelier.
 Harvey Furry Grazier, 125 *S. Willard 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, 404 *Pearl St.*, 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, *Nu Sigma Nu House*, Maidstone.
 Richard Vaughan Newcombe, B.S., 98 *N. Prospect St.*, Burlington.
 Russell Smith Page, Jr., A.B., 165 *Loomis St.*, Hyde Park.
 Frances Ellen Rowe, B.S., 343 *Pearl St.*, Evanston, Ill.
 William Ireland Shea, A.B., 26 *Clarke St.*, Burlington.
 Howard Whitcomb Stanley, B.S., *Colchester*, Colchester.
 Frederick Whiting Timmerman, B.S., *Nu Sigma Nu House*, Morrisville.
 Ransom Edward Tucker, B.S., *Nu Sigma Nu House*, Warren.
 William Vilardo, B.S., 350 *North St.*, Garfield, N. J.
 Harold Eugene Williamson, B.S., 8 *N. Williams St.*, Bristol.

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 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., 16 *Brookes Ave.*, 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 Alto MacMillan, B.S., 266 *Main St.*, Plainfield.
 Photius Demetrius Mamos, B.S., 52 *N. Winooski Ave.*, Burlington.
 Lyle John Monti, B.S., 34 *Buell St.*, Barre.
 Deane Fremont Mosher, B.S., 72 *Greene St.*, Newport.
 William Joseph Mulligan, B.A., 98 *N. Prospect St.*, Springfield, Mass.
 James Patrick O'Neil, B.S., 272 *Pearl St.*, Burlington.
 Victor Joseph Pisanelli, 234 *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., 37 *N. Prospect St.*, Rutland.
 Robert Newton Saxby, B.S., *Nu Sigma Nu House*, Morrisville.
 Leo Schneller, B.S., 88 *N. Willard St.*, Woodside, L. I., N. Y.
 Leo Maurice Seltzer, A.B., 123 *Loomis St.*, Barre.
 Bartlett Henry Stone, B.S., 19 *Booth St.*, White River Junction.
 Harry Berne Werner, B.S., 286 *Pearl St.*, Bronx, N. Y.
 Geoffrey Paul Wiedeman, B.S., 108 *DeForest Rd.*, Burlington.
 Jack Wool, B.S., 236 *N. Willard St.*, Burlington.
 John Thomas Wright, B.S., 75 *Grant St.*, Waterbury.

FRESHMEN—Class of 1942

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 Donald Louis Bashaw, *Winooski*, Winooski.
 Paul Norman Berry, 206 *Bank St.*, Richmond.
 Myer Harold Boyarsky, 81 *Spring St.*, Burlington.
 Peter Demosthenes Corsones, 165 *Main St.*, Rutland.
 John Alexander Davidson, A.B., 10 *S. Willard St.*, St. Albans.
 Otley Leland Dugan, Jr., *Williston Rd.*, Newport Center.
 Robert Byron Dugan, *Williston Rd.*, Newport Center.
 Frank Dayton Eddy, 231 *Maple St.*, Burlington.
 Dean Harding Edson, 80 *N. Willard St.*, W. Lebanon, N. H.
 Richard Francis Farrell, 163 *Loomis St.*, Shelburne.
 Malcolm Wendt Finlayson, 33 *Brookes Ave.*, Cleveland Heights, Ohio.
 Christian Gronbeck, Jr., B.S., *Sigma Nu Lodge*, E. Barnet.
 Frank Edward Harrigan, Jr., *N. Converse Hall*, W. Hartford, Conn.
 James Howard Kelleher, B.S., 234 *Pearl St.*, Montpelier.
 John Edward Kennedy, 44 *Brookes Ave.*, Adams, Mass.
 Avery Parsons King, 10 *S. Willard St.*, St. Albans.
 Emery Othello Lewis, 323 *College St.*, Montpelier.
 Leon Robert Lezer, *Mary Fletcher Hospital*, Websterville.
 Robert Likovsky, 219 *N. Winooski Ave.*, Burlington.
 John Prentiss Lord, 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., 113 *Buell St.*, E. Craftsbury.
 Albert Francis Snay, Jr., 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, 262 *North Ave.*, Burlington.
 Charles Flagg Whitney, Jr., 19 *Kingsland Ter.*, Burlington.
 Robert Lewis Whitney, *Essex Junction*, Essex Junction.

SUMMER SESSION STUDENTS, 1938

- Althea L. Abell, Burlington.
 Caroline B. Abel, Burlington.
 Margaret D. Ackerman, A.B., A.M., Erie, Pa.
 Charlotte F. Adams, A.B., Burlington.
 Georgia K. Adams, B.A., Alexandria, Minn.
 Luna M. Adams, Greenwich, Conn.
 Patricia L. Adams, Keene Valley, N. Y.
 Stella M. Adams, B.S., Hebron, N. H.
 Ruth S. Ainsworth, Burlington.
 Dorothy B. Akers, B.S. *in* ED, Essex Junction.
 Dorothea E. Akey, A.B., Burlington.
 Mildred E. Akins, B.S. *in* ED., Port Richmond, N. Y.
 Brooke Albert, Burlington.
 Mrs. Helen B. Albert, PH.B., Burlington.
 Mildred E. Aldrich, Sutton.
 Ruth M. Aldrich, Plymouth.
 Julia M. Allard, Castleton.
 Helen N. Allen, B.S. *in* ED., M.A., Burlington.
 Howard S. Allen, B.S., Xenia, Ohio.
 Clarence F. Amsden, B.S., Hardwick.
 Bertrand J. Andrews, Middlebury.
 Marlene L. Andrews, A.B., Elmwood, Mass.
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 Rose P. Arenwald, B.A., New York, N. Y.
 Homer B. Ashland, PH.B., Plainfield.
 Clara B. Atherton, Westport, Conn.
 Mary Augustenovich, Springfield.
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 Eleanor Bailey, Barre.
 Everett C. Bailey, Burlington.
 Herbert A. Baker, Concord.
 Jennie L. Baker, Winoski.
 Netina M. Baker, Bolton Landing, N. Y.
 Rita G. Baker, Brattleboro.
 Elizabeth C. Baldwin, B.A., Hartford, Conn.
 Myrtle C. Baldwin, Hinesburg.
 Shirley T. Baldwin, B.S. *in* ED., Charlotte.
 Phillip T. Barber, Montpelier.
 Lawrence E. Barnard, B.S.A., Milton.
 Gladys P. Barney, E. Charleston.
 Coletta Barrett, PH.B., Watertown, Conn.
 Eva A. Barrett, Thetford Center.
 Mary A. Barrett, A.B., Hydeville.
 Vera E. Barrett, Thetford Center.
 Mary L. Barry, A.B., M.A., S. Burlington.
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 Ralph G. Bartlett, B.S. *in* ED., Newport Center.
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 Louis W. Batchelder, B.S., Hartford, Conn.
 Vivian M. Bates, Derby Line.
 J. And   Baxter, Waterville, Me.
 Henri J. Beauchemin, Pittsfield, Mass.
 Anso Belardinelli, Norwalk, Conn.
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 Erna L. Benedict, Burlington.
 Mildred G. Benedict, Waterbury Center.
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 Patricia K. Bennett, Bury, Quebec.
 Mabelle E. Bentley, Lyndonville.
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 Sylvia K. Bergman, Burlington.
 Ruth F. Berman, Hartford, Conn.
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 Bernadine M. Beyer, Victor, N. Y.
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 Ruth E. Bigelow, Vergennes.
 Bertha E. Biggers, Watertown, N. Y.
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 Hazel A. Billings, Middlebury.
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 Bessie Blacksin, B.B.A., New York, N. Y.
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 Lillian C. Blanchard, Rutland.
 Alice C. Blodgett, Somerville, Mass.
 Elsa E. Bolan, Burlington.
 Lyman W. Bole, B.S., Bradford.
 Helen R. Bolger, B.S.ED., Montclair, N. J.
 Harriett E. Bone, Gardner, Mass.
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 Gordon B. Booth, Burlington.
 Mollie A. Booth, Randolph.
 Glynn B. Bosley, Derby Line.
 Claire V. Bosworth, Burlington.
 Irene D. Bouchard, St. Albans.
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 Ruth V. Bourquin, Rutland.

- Blanche Bowen, Little Rock, Ark.
 Laura M. Boyce, Barre.
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 Eileen R. Brickel, Burlington.
 Ellen L. Brigham, Burlington.
 Sally A. Brigham, Burlington.
 Otilia M. Brolin, Proctor.
 Esther Broudy, Hartford, Conn.
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 Constance L. Brown, A.B., M.S., Burlington
 Dora A. Brown, S. Strafford.
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 Margaret S. Brown, Essex Center.
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 Jerome Q. Bullis, B.S., Milton.
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 Hazel M. Burnap, Burlington.
 Eugene G. Burnkrant, B.A., Marshfield, Wis.
 A. Viola Burns, Fair Haven.
 Harold F. Burroughs, Burlington.
 Janice J. Byington, PH.B., Charlotte.
 Jose N. Cabanzo, Barre.
 Rose E. Cain, East Orange, N. J.
 Evelyn M. Calhoun, Middlebury.
 Mary E. Callahan, New London, Conn.
 Robert R. Callander, Malone, N. Y.
 Mary H. Callaway, A.B., Thomasville, Ga.
 Dorothea Cameron, Winooski.
 Thomas J. Campbell, Montpelier.
 Mary E. Cannon, Rutland.
 Georgia N. Carabeau, B.S. in ED., Danby.
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 Merritt E. Carpenter, Jr., Montpelier.
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 Catherine C. Cartier, Burlington.
 Christine Caruthers, Fort Ethan Allen.
 Loretta L. Casey, Jericho.
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 Fay H. Cassileth, B.S., M.S., Brooklyn, N. Y.
 Novello Cenci, Barre.
 Doris B. Chamberlain, Ferrisburg.
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 Mabel W. Chandler, Barre.
 Irene Chase, B.S., Massena, N. Y.
 Irving N. Chase, Weymouth, Mass.
 Julia J. Cheney, Jamaica.
 Lucia T. Cherrier, Fairfax.
 Belle M. Chigi, B.S. in ED., Burlington.
 Henry T. Child, B.S., Hardwick.
 Marion E. Child, Montpelier.
 Belle L. Church, A.B., Richmond.
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 Mildred M. Cilley, St. Johnsbury.
 Andrew D. Clark, Englewood, N. J.
 Della D. Clark, Richford.
 Julian B. Clark, Burlington.
 Lawrence B. Clark, B.S., Mohawk, N. Y.
 Myrtle A. S. Clark, Winooski.
 Rachel Clark, Waterbury.
 Virginia G. Clark, W. Hartford, Conn.
 Nina R. Clay, A.B., A.M., Steubenville, Ohio
 Marion H. Clemons, Danby.
 Mrs. Charlotte B. Clifton, Waterbury.
 Albert W. Coffien, Burlington.
 Rachel L. Cole, St. Albans.
 John D. Coleman, Schenectady, N. Y.
 Katharine B. Collier, A.B., Brooklyn, N. Y.
 Dorothy M. Collins, Hyde Park.
 Janet Collins, Colchester.
 Leonora D. Collins, Burlington.
 Mary E. Collins, Burlington.
 Rachel E. Colton, Mt. Vernon, N. Y.
 Beatrice I. Colvin, ED.B., W. Warwick R. I.
 Mrs. Esther Conlin, Winooski.
 Eileen K. Connelly, Underhill.
 Maie E. Comstock, Ludlow.
 Elizabeth D. Connors, West Pawlet.
 Mary B. Conroy, A.B., N. Brookfield, Mass.
 John H. Cook, B.S. in ED., Hancock, Mass.
 Margaret M. Cook, Mount Holly.
 Harrison A. Cooke, Jr., A.B., Burlington.
 Helen Cooper, A.B., Attleboro, Mass.
 Cora A. Copeland, Highgate Center.
 Marian G. Corbett, Wilmington.
 Cathleen Corcoran, B.S., N. Bennington.
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 Mary E. Corcoran, Rutland.
 Phyllis K. Corliss, Springfield.
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 Catherine M. Courtney, PH.B., Burlington.
 Arthur P. Couture, A.B., M.A., Winooski.
 Jennie I. Couture, B.S. in ED., W. Burke.

- Doris Covell, Washington, D. C.
 Edward S. Cram, Burlington.
 Walter E. Crandall, Essex Junction.
 Martha H. Crane, Burlington.
 Mildred E. Creller, Alburg.
 Esther M. Crook, B.E., Dorchester, Mass.
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 Beth E. Crowther, Chester Depot.
 Doris M. Crozier, A.B., Montpelier.
 Ruth G. Crozier, Lebanon, N. H.
 Loretta A. Cunningham, B.S., Mt. Vernon,
 N. Y.
 Lorraine B. Cushman, A.B., Lake George,
 N. Y.
 Edward M. Dakin, B.A., Sharon, Conn.
 Lois A. Dallenbach, Champaign, Ill.
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 N. H.
 May C. Dane, Montpelier.
 Alba M. Daneluzzi, Barre.
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 Leella A. Davis, Lyndonville.
 Ruth F. Davis, Rutland.
 Stilman G. Davis, Jr., Nashua, N. H.
 Robert P. Davison, B.S., Burlington.
 Arza L. Dean, Lunenburg.
 Elma J. DeBrune, A.B., Greensboro.
 Mary L. Dee, B.A., Hancock, Mass.
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 Claire K. Delaney, Middlebury.
 Sister M. De Lourdes, Burlington.
 Esther DeMott, Hackensack, N. J.
 Mrs. Olive H. Dern, Dorset.
 Sister M. C. Desautels, Burlington.
 Mable L. Desorcie, Highgate Center.
 Marion A. Devine, Northfield.
 Burt L. Dexter, A.B., Littleton, N. H.
 Paul A. Dicke, Upper Montclair, N. J.
 Olive M. Dickinson, W. Hartford, Conn.
 Mary M. Dillon, A.B., Morrisville.
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 John A. Dodds, Jr., B.S., Stowe.
 Elizabeth R. Dole, A.B., Peterborough,
 N. H.
 Sister M. Dominica, A.B., Burlington.
 Ellen E. Donovan, A.B., Bristol, Conn.
 Margaret R. Donovan, B.S., Millbury, Mass.
 Marie V. Donovan, Bristol, Conn.
 Stephen A. Doran, A.B., Montpelier.
 Edward H. Dorsey, Ludlow.
 Eleanor B. Douglas, B.S., Burlington.
 George V. Drabble, B.A., Rochester.
 Reba B. Drabble, Rochester.
 Curtis A. Dressel, B.S., Springfield.
 Eugene C. Dresser, B.S., Burlington.
 Elizabeth G. Driscoll, Hartford, Conn.
 Agnes N. Driscoll, St. Albans.
 Isaac A. Drowne, B.S., Morrisville.
 Isabelle L. Ducharme, E. Fairfield.
 Phyla M. Ducharme, E. Fairfield.
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 Mass.
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 Can.
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 Juanita Emery, Brooklyn, N. Y.
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 Barbara E. Evans, Essex Junction.
 Janet Evans, New Haven, Conn.
 Jean M. Evans, Burlington.
 Rebecca I. Everts, Salisbury.
 Florence Fallon, A.B., Cincinnati, Ohio.
 Amy D. Francher, Vergennes.
 Lenore M. Farnham, B.A., Napoleon, Ohio.
 Mary F. Farquharson, Derby.
 Jerome H. Farwell, B.S. in ED., Wells River.
 Teresa M. Fayette, B.S., Burlington.
 Louis Fein, B.S., Woodside, L. I., N. Y.
 Helen Fетters, Celina, Ohio.
 Susan M. Fillips, Metuchen, N. J.
 Edith C. Finlay, Essex Junction.
 Alberta C. Fisher, New London, N. H.
 Florence Fisher, Burlington.
 Lila A. Fisher, E. Concord.
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 Fremont W. Fiske, Burlington.
 Elizabeth B. FitzSimonds, Underhill.
 Anna K. Fitzsimons, Underhill.
 Edmund Flagg, Craftsbury Common.
 Myra B. Flanders, Quebec.

- Ivis B. Flint, Randolph.
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 Cathaleen M. Foster, Stowe.
 Jean E. Foster, Groton.
 Warren E. Fowler, Manchester Depot.
 Anna M. Fox, Winooski Park.
 Mrs. Marion E. W. Fox, B.S., Atlantic City, N. J.
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 Olive H. Fuller, B.S. *in* ED., Brockton, Mass.
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 Josephine Gagnon, Vergennes.
 Agnes I. Gallison, Waterbury.
 Margaret R. Gallon, Little Neck, N. Y.
 Olive G. Garrow, B.S. *in* ED., Burlington.
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 Walter M. Glass, Burlington.
 Marion G. Glidden, Franklin.
 Blanche J. Glynn, Chester.
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 Hazel H. Goodnough, Brandon.
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 Winifred D. Graham, B.S., Roxbury.
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 Jessie M. Greene, Wells.
 William G. Grieve, Burlington.
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 Ann L. Griggs, Newport.
 Gertrude E. Griswold, W. Hartford, Conn.
 Persis E. Griswold, B.S., Orange, N. J.
 Goldie Grodzinsky, St. Albans.
 Myrtle V. Gue, Struthers, Ohio.
 Ruth V. Gue, Struthers, Ohio.
 Maude P. Guillow, Gardner, Mass.
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 Mrs. Ethel S. Hall, St. Albans.
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 Eva M. Hammerberg, Oak Park, Ill.
 Mary V. Handy, N. Springfield.
 Kathryn A. Hanley, Castleton.
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 Alma E. Hewitt, Kalkaska, Mich.
 Edith M. Hewitt, B.A., St. Louis, Mo.
 Julia V. Higgins, W. Rutland.
 Iris H. Higley, Huntington.
 Marion E. Higley, Richmond.

- Lena C. Hill, Montpelier.
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 Barbara Hodskins, Palmer, Mass.
 Gladys D. Hogaboom, Highgate Center.
 Mary E. Hogan, Brandon.
 Roswell A. Hogue, II, Plattsburg, N. Y.
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 Bessie L. Holcombe, Springfield, Mass.
 Dorothy W. Holden, Brattleboro.
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 G. Allen Holmes, B.S., Cabot.
 Margaret S. Homer, B.S., Franklin, Me.
 Genevieve P. Hook, A.B., A.M., Burlington.
 Fannie Hopkins, B.A., M.A., Waukesha, Wis.
 Louise D. Hopkins, W. Orange, N. J.
 Marvel C. Horn, B.A., M.A., Columbus, Ohio.
 A. Weldon House, B.S., Northfield.
 Hazel W. House, Cos Cob, Conn.
 Harriet Howard, B.A., Burlington.
 Alice H. Howe, Passumpsic.
 Irwin H. Hoxie, B.S., Hardwick.
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 Hope E. Hubbard, Wells.
 Grace H. Huckins, N. Troy.
 Nell Huggins, A.B., Houston, Texas.
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STUDENTS IN RESIDENCE, 1938-1939

THE DEPARTMENT OF EDUCATION

BY CURRICULA:	MEN	WOMEN	TOTAL
Elementary Education	7	130	137
Music Education	10	14	24
Totals	17	144	161
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1939	2	18	20
Juniors, 1940	2	36	38
Sophomores, 1941	7	42	49
Freshmen, 1942	5	45	50
Unclassified	1	3	4
Totals	17	144	161

THE COLLEGE OF AGRICULTURE

BY CURRICULA:	MEN	WOMEN	TOTAL
Agriculture	88	0	88
Home Economics	0	120	120
Totals	88	120	208
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1939	14	19	33
Juniors, 1940	21	18	39
Sophomores, 1941	23	37	60
Freshmen, 1942	30	46	76
Totals	88	120	208

THE COLLEGE OF ENGINEERING

BY CURRICULA:	MEN	WOMEN	TOTAL
Civil Engineering	36	1	37
Electrical Engineering	47	0	47
Mechanical Engineering	46	0	46
Totals	129	1	130
BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1939	21	0	21
Juniors, 1940	25	0	25
Sophomores, 1941	33	0	33
Freshmen, 1942	50	1	51
Totals	129	1	130

THE COLLEGE OF ARTS AND SCIENCES

BY CURRICULA:	MEN	WOMEN	TOTAL
Chemistry	27	1	28
Classical	4	12	16
Commerce and Economics, Business	86	1	87
Commerce and Economics, Commercial Teaching	1	20	21
Commerce and Economics, Secretarial	1	55	56
General Science	58	39	97
Pre-medical	153	13	166
Literary-Scientific	7	49	56
Secondary Education	28	34	62
Social Science	80	72	152
Special	14	12	26
Totals	459	308	767

BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1939	69	64	133
Juniors, 1940	87	53	140
Sophomores, 1941	121	69	190
Freshmen, 1942	172	115	287
Unclassified	10	7	17
Totals	459	308	767

THE GRADUATE DEPARTMENT

	MEN	WOMEN	TOTAL
Resident Graduate Students	31	12	43

THE COLLEGE OF MEDICINE

BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1939	38	2	40
Juniors, 1940	34	2	36
Sophomores, 1941	30	1	31
Freshmen, 1942	32	0	32
Totals	134	5	139

THE UNDERGRADUATE COLLEGES

SUMMARY BY CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1939	106	101	207
Juniors, 1940	135	107	242
Sophomores, 1941	184	148	332
Freshmen, 1942	257	207	464
Unclassified	11	10	21
Totals	693	573	1,266

SUMMARY OF RESIDENT ENROLLMENT, 1938-1939

THE UNDERGRADUATE COLLEGES	MEN	WOMEN	TOTAL
The Department of Education	17	144	161
The College of Agriculture	88	120	208
The College of Engineering	129	1	130
The College of Arts and Sciences	459	308	767
Total in Undergraduate Curricula	693	573	1,266
THE GRADUATE DEPARTMENT	31	12	43
Total in the Academic Colleges	724	585	1,309
THE COLLEGE OF MEDICINE	134	5	139
Total in the University	858	590	1,448
THE SUMMER SESSION, 1938	289	660	949
Total registrations	1,147	1,250	2,397
Less students counted twice	(56)	(37)	(93)
Total different students enrolled	1,091	1,213	2,304

GEOGRAPHICAL DISTRIBUTION

	MEN	WOMEN	TOTAL
Connecticut	60	20	80
Delaware	2	0	2
District of Columbia	1	1	2
Florida	0	2	2
Illinois	0	4	4
Iowa	1	0	1
Kentucky	1	1	2
Maine	8	3	11
Massachusetts	88	38	126
Michigan	0	1	1
Minnesota	0	1	1
Montana	1	0	1
Nebraska	0	1	1
New Hampshire	14	6	20
New Jersey	24	21	45
New York	88	53	141
North Dakota	1	0	1
Ohio	3	1	4
Pennsylvania	2	5	7
Rhode Island	5	2	7
VERMONT	555	425	980
Washington	0	1	1
Canada	3	3	6
Canal Zone	1	0	1
India	0	1	1
Totals	858	590	1,448

Degrees in Course, 1938

THE CURRICULUM IN ELEMENTARY EDUCATION

*BACHELORS OF EDUCATION

Louise Marion Brazier, Montpelier.
Pauline Chamberlin, South Ryegate.
Kathleen Donahue, Essex Junction.
Marita Mary Farrell, Rutland.
Naomi Elizabeth Fickett, Bellows Falls.
Anna Frances Gardner, Springfield.
Elizabeth Campbell Gilmour, Barton.
Elizabeth Eleanor Jenkins, Washington, D. C.
Eleanor Elizabeth Kimball, North Ferrisburg.
Muriel Mary Linnehan, Burlington.
Phyllis Aletha McRae, St. Johnsbury.
Flora Lucille Maxham, Malone, N. Y.
Catherine Martha Muir, Burlington.
Emma Elizabeth Needham, Orwell.
Mrs. Kathryn Kellett Nichols, Burlington.
Alice Lorraine Palmer, Springfield.
Ethel Harriet Pearl, Swanton.
Ruth Ada Spooner, Burlington.

THE COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE IN AGRICULTURE

Grace Eleanor Baldwin, North Ferrisburg.
Alvah Leonard Bartlett, Underhill Center.
Roger Hamilton Beadle, Newport Center.
Kendall Sewell Carpenter, *cum laude*, Groton.
Aaron Leib Cohen, Burlington.
Paul Arthur Gilman, Bethel.
Silas Hamilton Jewett, Middlebury.
Martin Howe Lamson, Hudson, Mass.
Arlton Ernest Lapierre, Greensboro.
†Roger Courtney Martin, Wolcott.
Leonel Paul Nelson Paquette, Craftsbury.
Merrill Ernest Perley, Richford.
Henry Edward Ross, Lyndonville.
Donald Charles Stafford, Waitsfield.
Donald Young Stiles, Barton.
Roger Davis Whitcomb, Springfield.

* Diploma in four-year curriculum awarded by University of Vermont and State Agricultural College.

† As of 1937.

BACHELORS OF SCIENCE IN HOME ECONOMICS

Margaret Beulah Allen, *cum laude*, South Hero.
Helen Ione Brown, Brandon.
Marion Huntington Brown, Brandon.
Frances Rita Cain, Orwell.
Dorothy Constance Chittenden, South Burlington.
Evelyn Maxine Churchill, Burlington.
Doris Elaine Corey, Providence, R. I.
Phyllis Martha Craig, Peacham.
Lois Parker Gould, McIndoe Falls.
Lola Vena Hastings, Saxtons River.
Bertha Laura Hewitt, Bristol.
Jennie May Hutchins, Burlington.
Mary Gretchen Keelan, Montgomery.
Priscilla Alicia Locke, Canaan.
Jeanette Billings McFarland, Morrisville.
Avis Harriet Pike, Irasburg.
Alice Jane Pratt, North Clarendon.
Dorothy Lenore Quade, Gardner, Mass.
Theresa Emily Rowley, Milton.
Flora Isabel Selleck, *cum laude*, Sudbury.
Rosetta Elizabeth Squires, Brattleboro.
Helen Elizabeth Start, Bakersfield.
Barbara Ann Wells, Burlington.
Madaline Ruth Wheelock, Barre.
Ruth Marie White, East Ryegate.

THE COLLEGE OF ENGINEERING**BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING**

Jean Louise Cunningham, Bridgeport, Conn.
*Richard Johnson Duncan, McIndoe Falls.
Kenneth Albert Laplant, *cum laude*, West Burke.
William Cuyler van Dyck, Rockville Center, N. Y.
George Barnes Worthen, Montpelier.

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

Frederick Trask Gear, Montpelier.
Allen Strickland Hall, Jr., *cum laude*, Greensboro.
Elias Lyman, VII, Evanston, Ill.
Raymond Muller Snow, Montpelier.
*Frederick Kermit Wiseman, Burlington.

BACHELORS OF SCIENCE IN CIVIL ENGINEERING

Albert Murray Cate, Plainfield.
Donald MacLean Dewart, St. Albans.
Thomas Michael Herbert, West Rutland.

* As of 1937.

Charles Knights Houghton, Brattleboro.
Earl Rockwell Howard, Rockville, Conn.
Kenneth Martin Kidd, Northfield.
William Lyon Lee, St. Petersburg, Fla.
Moses Leon Thibault, Jr., Waterbury.

THE COLLEGE OF ARTS AND SCIENCES

BACHELORS OF SCIENCE IN CHEMISTRY

Theis Eleanor Aitken, *cum laude*, Bethel.
Edward Clark Bingham, Jr., Rutland.
Willard Boyce Farnham, *magna cum laude*, Morrisville.
Murray Wilbur Foote, Charlotte.
Albert Benson Meservey, *cum laude*, Bradford, N. H.
William J. Simcox, South Strafford.

BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

Beatrice Hazel Ball, Bristol.
Mary Draper, Belmont, Mass.
Donald Kay Duley, Wakefield, Mass.
George Sidney Edwards, Burlington.
Gertrude Fraint, *magna cum laude*, Burlington.
Olive Elaine Griffith, Manchester.
Paul Herbert Jordon, St. Johnsbury.
Kathryn Marie King, Fort Ethan Allen.
Mary Lucille McCormick, *magna cum laude*, Pittsford.
Eloise Wilhelmine McLeod, Barre.
Rita Alice Mahoney, Burlington.
Catherine Mary Newcomb, Burlington.
Kathryn Virginia Newcomb, Waitsfield.
Mary Katherine Rooney, St. Albans.
Albert Clark Spaulding, Burlington.
Dorothy Spelman, Berwyn, Ill.
Ethel Allan Starbird, Burlington.
Ethel Stroh, West Hartford, Conn.
Carrie Louise Stufflebeam, Bakersfield.
Alfred Robert Tomassetti, Meriden, Conn.
Helen Anna Towle, St. Johnsbury.
Stoddard Roy Warden, West Barnet.

BACHELORS OF SCIENCE IN EDUCATION

Dorothy Beatrice Akers, Essex Junction.
Martha Constance Bishop, Montpelier.
Alice Matilda Brock, West Barnet.
Theodore Peter Budzyna, East Douglas, Mass.
Russell Drake Chase, Essex Center.
*Paul Craig, Newport.

* As of 1936.

Norma Therese Falby, Burlington.
Dorothy Elizabeth Gibson, Wells River.
Laura May Giddings, North Springfield.
Doris Mae Goldman, Burlington.
Marion Tomlinson Hall, Morrisville.
Maxine Towne Harvey, Waterbury.
Evelyn Clara Heath, Orleans.
Marjorie Irene Horton, Brandon.
Rebecca Farnham Kibby, Randolph Center.
Howard Litsky, Burlington.
Frances Ethel Mackie, Hardwick.
Maxine Evvie Maxham, Malone, N. Y.
Rudolph Joseph Mazelli, Wilmington.
Hazel Thelma Morris, *cum laude*, Poultney.
Priscilla June Newton, Burlington.
David Harold Ripper, Burlington.
Mildred Janet Rockwood, *magna cum laude*, Bennington.
Gretta Leona Rowe, Barnet.
Carol Evelyn Stone, Richford.
Lucia Thorington, Northfield.
*Nester Honoré Trottier, Wilder.
Walter Harold Van Wyck, Wilmington.
Marion Frances Yerks, Manchester, Conn.
Sylvia Hilda Zabarsky, *cum laude*, St. Johnsbury.

BACHELORS OF SCIENCE

Clifford Clark Agnew, Brattleboro.
Vincent Baptist, Bristol, Conn.
Julian Maurice Barron, Brookline, Mass.
William Saxton Bedford, Oneonta, N. Y.
Noe Nelson Benoit, Fisherville, Mass.
†James Salvatore Brescia, Montgomery, N. Y.
Amy Joanne Bronkhorst, Wethersfield, Conn.
Renwick Keese Caldwell, *magna cum laude*, Burlington.
Marco Balerio Cano, Montpelier.
Rocco Cassone, Stamford, Conn.
Armanno William Ciccarelli, Bristol, Conn.
Robert Arthur Crandall, Essex Junction.
Ruth Lucille Greenfield, New London, Conn.
Sidney Grevior, Manchester, N. H.
Christian Gronbeck, Jr., East Barnet.
Frances Ellen Hennessey, Bellows Falls.
Marjorie Elizabeth Howe, Jamaica, N. Y.
†Robert Hayward Lowe, Montpelier.
Frederick Powers McIntyre, Brandon.
Ethel Bonita Matthews, Rutland.
Ernest Lee Mills, Burlington.
Lyle John Monti, Barre.
Deane Fremont Mosher, *magna cum laude*, Newport.

* As of 1937.

† As of 1935.

James Patrick O'Neil, Burlington.
 Robert Graham Paterson, East Craftsbury.
 Ruth Christine Perkins, Northfield.
 Henry Lewis Pratt, Rutland.
 Paul Charles Rand, Burlington.
 Gabriel Damion Rosanelli, Brooklyn, N. Y.
 Maurice Emerson Rowe, Barnet.
 Leonard Albert Schine, Bridgeport, Conn.
 Leo Schneller, Woodside, L. I., N. Y.
 Wendall Arthur Smith, Lancaster, N. H.
 Bartlett Henry Stone, White River Junction.
 Maurice Traunstein, Jr., *cum laude*, Allston, Mass.
 *William Mansfield Waterman, Vergennes.
 †Morton Wheeler, Plymouth, N. H.
 Geoffrey Paul Wiedeman, Burlington.
 Jack Wool, Burlington.

BACHELORS OF PHILOSOPHY

Howard Clark Abbott, Franklin, Mass.
 Ruth Baldwin Bronson, New Haven, Conn.
 Donald Blodgett Carpenter, Burlington.
 Marie Constance Catania, Garfield, N. J.
 Charlotte Luella Clark, *cum laude*, Rutland.
 Florence Emily Cook, Shrewsbury, Mass.
 Fred Goddard Coombs, Brattleboro.
 Margaret Evelyn Corliss, *cum laude*, St. Albans.
 Robert Francis Dalton, Burlington.
 Wendell Edwin Farnham, Georgia.
 †George Boardman Gardiner, Jr., Lynn, Mass.
 Gordon Wilbur Howard, Montpelier.
 Pauline Elizabeth Hunt, *magna cum laude*, Burlington.
 Helen Philips Huntington, Rochester.
 Howard Loomis Johnson, Rutland.
 Hastings Keith, Brockton, Mass.
 William Garrett Kidd, Northfield.
 Janet Gabrielle Lanou, *magna cum laude*, Burlington.
 Helen Mary Leary, Burlington.
 Phyllis Avery Mann, Littleton, N. H.
 Ruth Catherine Maurice, *cum laude*, Burlington.
 Miriam Mulcare, Cambridge, Mass.
 Melvin Bertram Newman, Bridgeport, Conn.
 Maolyn Doane Osgood, *cum laude*, Wilder.
 Charlotte Elizabeth Perkins, *cum laude*, Bridgewater Corners.
 Irma Marguerite Perkins, Lyndonville.
 Winston Russell Pillsbury, Barre.
 John Willoughby Robinson, *cum laude*, Bellows Falls.
 Harris Wertheim Stahl, St. Johnsbury.
 Joyce Hall Stearns, Johnson.

* As of 1935.

† As of 1937.

John Henry Sutor, South Deerfield, Mass.
 Barbara Ann Sussdorff, *cum laude*, Burlington.
 Waltina Agnese Szyman, Claremont, N. H.
 John Henri Twohey, St. Albans.
 Agnes Dorothy Walker, Cabot.
 Alfred Joseph Wimet, Jr., Pittsford.
 Irving Isadore Wolfe, Burlington.
 Melville Wolinsky, West Rutland.

BACHELORS OF ARTS

Louise Eleanor Abbott, St. Johnsbury.
 Alice Gracelyn Drew, Randolph.
 Lyrace Flower, Hartland Four Corners.
 Winifred Marguerite Harvey, Plainfield.
 Dorothy Bradford Holmes, Plymouth, Mass.
 Constance Lucy Knight, *summa cum laude*, Putney.
 Beverly Reith Nute, *magna cum laude*, Barre.
 Helen Mar White, Northfield.

ADVANCED DEGREES

MASTERS OF ARTS

EDUCATION

Earl Hutchinson, A.B., Bates, 1929.
Thesis: A Study of the Adequacy of Secondary School Programs in the High Schools of Aroostook County, Maine.
 Mrs. Elizabeth Warner Morrill, Ph.B., Vermont, 1928.
Thesis: Case Studies of One Hundred Burlington Children with Special Reference to Their Variability in Reading Readiness.
 Roscola Mary Rooney, B.S., Vermont, 1925.
Thesis: The Selection of Subject Matter to be Included in a Course of Study in Home Economics for the City of Hartford, Connecticut.

ENGLISH

Marjorie Finlay Hewitt, A.B., Smith, 1936.
Thesis: The Rôle of the Supernatural in English Poetry of the Later Eighteenth Century.
 Mrs. Margaret Essery Nicholson, A.B., McGill, 1932.
Thesis: The Contrast Between Neo-Classical and Romantic Criticism as Exemplified in the Works of Coleridge.
 M. Eluned Roberts, A.B., Vermont, 1937.
Thesis: The Hero in Old Welsh Literature.

GERMAN

Bernetha Alberta Strickler, A.B., Lebanon Valley College, 1927.
Thesis: The Lyrical Works of Hugo Von Hofmannsthal.

HISTORY

Raymond Douglas Dopp, B.S., Vermont, 1937.

Thesis: The Chevalier de Levis in New France (1756-1760).

Neil Adams McNall, B.S., Vermont, 1936.

Thesis: Anti-Slavery Sentiment in Vermont (1777-1861).

Robert Sherman Quimby, B.S., Vermont, 1937.

Thesis: Landshut Operations. A Study of the Franco-Austrian Operations in Bavaria in 1809.

MASTERS OF SCIENCE

AGRICULTURAL ECONOMICS

Anson John Pollard, B.S., Connecticut State, 1936.

Thesis: Transportation of Milk and Cream to Boston.

CYTOLOGY

Daniel Israel Manch, B.S., Cornell, 1936.

Thesis: Meiosis in an F₁ *Viola* Hybrid and Its Reciprocal.

DAIRY MANUFACTURING

Wayne Alton Caldwell, B.S., Pennsylvania State, 1937.

Thesis: Some Factors Affecting the Estimation of Fat in Milk by the Babcock Method.

FORESTRY

Marvin Robert Schneller, B.S., Syracuse, 1936.

Thesis: An Analysis of Physiological Responses and a Comparison of Practical Methods in Pruning *Pinus strobus*.

HORTICULTURE

Barbara Shalucha, PH.B., Vermont, 1937.

Thesis: The Histology of the Pome Epidermis, *Pyrus malus*, in Relation to Bitter Pit.

HOUSEHOLD ECONOMICS

Margaret Elizabeth Tiffany, B.S., Iowa State, 1935.

Thesis: A Study of the Relation Between the Retail Prices of Some Specific Foods and the Amounts, Styles, and Containers in Which They Are Purchased.

PATHOLOGY

Herbert Jackson Cannon, B.S., Vermont, 1937.

Thesis: A Survey of Storage and Market Diseases of the Fruits and Vegetables Shipped into Burlington with Their Effects on Market Prices.

PHYSICS

Rollaston George Stiles, B.S., Vermont, 1936.

Thesis: The Thermoelectric Properties of Sputtered Films of Nickel.

ZOOLOGY

Harry Philip Levine, B.S., Vermont, 1936.

Thesis: The Application of the Precipitin Reaction to the Study of Rodent Relationships.

CIVIL ENGINEER

James Lawrie Hibbard, B.S. in Civil Engineering, Vermont, 1926.

Thesis: A Study of Waterbury Dam for Available Power.

ELECTRICAL ENGINEER

Cyril George Veinott, B.S. in Electrical Engineering, Vermont, 1926.

Thesis: Fractional Horsepower Motors.

COLLEGE OF MEDICINE

DOCTORS OF MEDICINE

John Bloomenthal, Burlington.

James Salvatore Brescia, B.S., Montgomery, N. Y.

William Walsh Brislin, B.S., Rutland.

Sidney Harold Burness, A.B., Hartford, Conn.

Lewis Lynford Chester, A.B., *cum laude*, New Britain, Conn.

Thomas George Cogswell, B.S., Warner, N. H.

Ray Williston Collins, Jr., B.S., Colchester.

Harry Livingston Colombo, B.S., Montpelier.

Eric Denhoff, B.S., Taunton, Mass.

Daniel Charles DeWolfe, Jr., A.B., Monroe, Conn.

Oliver Rolfe Eastman, B.S., Burlington.

Edward Philip Gelvin, A.B., *cum laude*, Brooklyn, N. Y.

Herbert Hershey, A.B., *cum laude*, New York, N. Y.

Wendell Everett James, M.S., *cum laude*, Burlington.

Robert Matthew Levin, B.S., Burlington.

Emanuel Levine, West Rutland.

Henry Louderbough, B.S., Tenaflly, N. J.

Robert Hayward Lowe, B.S., Montpelier.

Frank Carson Lutman, B.S., Burlington.

Grace Elizabeth Lutman, B.S., Burlington.

John Henry McCrea, B.S., Burlington.

Sidney Earl Maislen, B.S., Hartford, Conn.

Bernard Margulies, B.S., *cum laude*, Brooklyn, N. Y.

John Louis Meunier, Essex Junction.

Stanley Frederick Morris, B.S., Brooklyn, N. Y.

Anthony Victor Dominic Nevulis, B.S., New Britain, Conn.

Haydon Rochester, A.B., Long Beach, Calif.

Samuel Rogers, B.S., Underhill.

Joseph Peter Shelc, Bellows Falls.

John Rolf Simonds, B.S., Attleboro, Mass.

George William Starbuck, B.S., Burlington.

William Paul Stetson, B.S., New Haven, Conn.
 Ralph Daniel Sussman, B.S., Rutland.
 David Boris Teitelbaum, A.B., New York, N. Y.
 John Belden Vander, B.S., Burlington.
 William Mansfield Waterman, B.S., Vergennes.
 Fletcher Howard White, Lyndon Center.
 John Hamilton Woodruff, Jr., B.S., Barre.

DEGREES HONORIS CAUSA

DOCTORS OF SCIENCE

Ellice Murdoch Alger.
 Professor of Ophthalmology, New York Post-Graduate Medical School, New York,
 N. Y.
 Dennie Hammond Udall.
 Professor of Veterinary Science, Cornell University, Ithaca, N. Y.

DOCTOR OF FINE ARTS

Henry Schnakenberg.
 Artist; President, Art Students League of America, Manchester.

DOCTOR OF LITERATURE

Walter John Coates.
 Author; President, The League of Vermont Writers, North Montpelier.

DOCTOR OF DIVINITY

Howard Chandler Robbins.
 Preacher; Professor of Pastoral Theology, General Theological Seminary, New
 York, N. Y.

DOCTOR OF HUMANE LETTERS

Kenneth Ballard Murdock.
 Author; Professor of English, Harvard University, Cambridge, Mass.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

SECOND LIEUTENANTS, INFANTRY RESERVE, UNITED STATES ARMY

Edward Clark Bingham, Jr., Rutland.
 Albert Murray Cate, Plainfield.
 Willard Boyce Farnham, Morrisville.
 Robert John MacGregor Fyfe, Jr., Waban, Mass.
 Charles Knights Houghton, Brattleboro.
 Earl Rockwell Howard, Rockville, Conn.

The Alumni Council

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.

The Alumni Council is composed of one member from each of the fifty classes last graduated, one member from each active alumni club and twenty members at large, one-half of such members at large being women.

PRESIDENT—Thomas J. Mulcare, Jr., B.S., '09, 414 Mt. Auburn St., Cambridge, Mass.

SECRETARY—Mrs. Isabelle Y. Gallup, 530 North St., Burlington, Vt.

ALUMNI OFFICE—Rooms 34-36, College of Medicine Bldg., Burlington, Vt.

CLASS REPRESENTATIVES ON THE COUNCIL

'89 Max L. Powell, Burlington, Vt.

'90 Herbert M. McIntosh, Burlington, Vt.

'91 Mrs. Hattie Andrews Forbes, Burlington, Vt.

'92 Edmund C. Mower, Burlington, Vt.

'93 Frank Wells, Burlington, Vt.

'94 Arthur Crombie, 551 Fifth Ave., New York City.

'95 M. Shaler Allen, 189 Montague St., Brooklyn, N. Y.

'96 Erwin M. Harvey, 26 State St., Montpelier, Vt.

- '97 Albert E. Lewis, Waterman Bldg., 44 School St., Boston, Mass.
- '98 Helen G. Hendee, Burlington, Vt.
- '99 Carl B. Brownell, Burlington, Vt.
- '00 Clifton M. Heaton, Montpelier, Vt.
- '01 Samuel S. Dennis, 44 School St., Boston, Mass.
- '02 Harry P. Hudson, 423 Furman St., Schenectady, N. Y.
- '03 Hollis E. Gray, Burlington, Vt.
- '04 Dr. Arthur L. Larnier, Burlington, Vt.
- '05 Walter H. Washburn, Windsor, Vt.
- '06 Dr. Donald Miner, 96 Gifford Ave., Jersey City, N. J.
- '07 Charles H. Covey, 224 Cooper St., Ottawa, Canada.
- '08 Wm. L. Blanchard, 49 South Ave., Melrose Highlands, Mass.
- '09 William L. Gardner, Burlington, Vt.
- '10 Albert V. Kieslich, Burlington, Vt.
- '11 Dr. Thomas E. Hays, Burlington, Vt.
- '12 Albert L. Gutterson, 49 Cherry St., Springfield Vt.
- '13 Everett I. Soule, St. Albans, Vt.
- '14 Major Adrian St. John, Edgewood Arsenal, Md.
- '15 Harold A. Mayforth, 58 Franklin St., Barre, Vt.
- '16 Morris R. Wilcox, Burlington, Vt.
- '17 Henry T. Way, Burlington, Vt.
- '18 George C. Stanley, Burlington, Vt.
- '19 Phillips M. Bell, Burlington, Vt.
- '20 William L. Hammond, Burlington, Vt.
- '21 Willard C. Arms, Burlington, Vt.
- '22 I. Munn Boardman, Burlington, Vt.
- '23 Bartholomew F. Garrity, Burlington, Vt.
- '24 Richard D. Aplin, 30 Middlesex Rd., Watertown, Mass.
- '25 Robert T. Platka, Burlington, Vt.
- '26 Olney W. Hill, Burlington, Vt.
- '27 William M. Lockwood, Burlington, Vt.
- '28 Sabin C. Abell, Burlington, Vt.
- '29 Constans M. Holden, Burlington, Vt.
- '30 Herrick M. Macomber, Merrill Hall, Exeter, N. H.
- '31 Rogers B. Adams, Burlington, Vt.
- '32 Allen O. Eaton, 57 Millette Rd., Swampscott, Mass.
- '33 James E. Bigelow, Fair Haven, Vt.
- '34 Donald J. Tobin, 1 "C" St., Taftville, Conn.
- '35 Richard Woodard, Hyde Park, Vt.
- '36 Mary R. Whitney, Milton, Vt.
- '37 Richard J. Duncan, McIndoe Falls, Vt.
- '38 Donald B. Carpenter, Burlington, Vt.

REPRESENTATIVES AT LARGE

Term Expires 1939

- '94 Mary R. Bates, Burlington, Vt.
- '95 Dr. James H. Naylor, 3 Main St., Hartford, Conn.
- '09 Dr. Edward A. Herr, 43 Central Ave., Waterbury, Conn.
- '15 Mrs. Mabel Watts Mayforth, Barre, Vt.

Term Expires 1940

- '03 Paul Gulick, Boston Post Road, Pelham Manor, N. Y.
- '13 Mary Jean Simpson, Burlington, Vt.
- '14 David W. Howe, Burlington, Vt.
- '32 Mrs. Lillian Mount Martin, c/o Dr. Raymond A. Martin, Bridgeport, Conn.

Term Expires 1941

- '05 Fred B. Wright, 195 Broadway, New York, N. Y.
- '28 Howard A. Prentice, Burlington, Vt.
- '10 John C. Orcutt, 1 Wall St., New York, N. Y.
- '14 James H. Moore, 9 E. 38th St., New York, N. Y.

Term Expires 1942

- '01 Edwin W. Lawrence, Rutland, Vt.
- '11 Clarence H. DeMar, Keene Normal School, Keene, N. H.
- '22 Mrs. Lois B. Horsford, Charlotte, Vt.
- '31 Mrs. Georgianna Hubert Kiphuth, 4 Cleveland Rd., New Haven, Conn.
- J. Hervey Macomber, Jr., Undergraduate Activities, Burlington, Vt.

Term Expires 1943

- '96 Harry C. Shurtleff, Montpelier, Vt.
- '06 H. Morton Hill, W. Newton, Mass.
- '17 Mrs. Margaret M. Loudon, Burlington, Vt.
- '31 Clinton J. Sammond, Hotel Astor, New York, N. Y.

ALUMNI CLUB REPRESENTATIVES

- '92 Dr. George L. Shattuck, 150 George St., Providence, R. I., for Rhode Island Alumni Association.
- '06 H. Morton Hill, 8 Chesterfield Rd., W. Newton, Mass., for Greater Boston Alumni Association.

- '11 Arthur H. Kehoe, 4 Irving Pl., New York, N. Y., for New York Alumni Association.
- '13 Roswell Farnham, Vice-President, Western N. Y., Alumni Club, 5 Clarendon Pl., Buffalo, N. Y.
- '14 Dr. Frank C. Buckmiller, 1119 Stratford Ave., Bridgeport, Conn., for Connecticut State Alumni Association.
- '18 Dr. Roger N. Blake, River Edge, N. J., for Northern New Jersey Medical Alumni Association.
- '20 Dr. Peter P. Lawlor, Burlington, Vt., for Vermont Medical Alumni Association.
- '22 Frederick S. Harris, 84 Crown St., Meriden, Conn., for Hartford, Connecticut, Alumni Association.
- '24 Erminie L. Pollard, 7 Shultas Pl., Hartford, Conn., for Hartford Alumnae Club.
- '26 Mrs. Allene Bertholf Hill, Burlington, Vt., for U. V. M. Alumnae Association.
- '27 Mark G. Pierce, Box 606, Worcester, Mass., for Worcester County (Mass.) Alumni Association.
- '28 Phillip R. Wheeler, 3 Pine St., Mt. Ida, Alexandria, Va., for Washington, D. C., U. V. M. Alumni Association.
- '35 Winona M. Oatley, 33 Arleigh Rd., Great Neck, L. I., N. Y., for New York Alumnae Association.

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