

Bulletin of the  
**UNIVERSITY OF VERMONT**  
**AND STATE AGRICULTURAL COLLEGE**  
===== BURLINGTON, VERMONT

1791



1946

One Hundred Fifty-Fifth Year

CATALOGUE NUMBER 1945-1946  
VOLUME XLIII                      NUMBER I  
WITH ANNOUNCEMENTS FOR 1946-1947

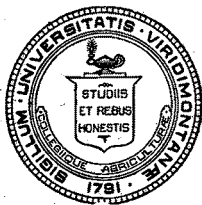
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❧ BULLETIN OF THE ❧  
UNIVERSITY OF VERMONT  
AND STATE AGRICULTURAL COLLEGE  
BURLINGTON - - - - VERMONT  
VOLUME XLIII—JANUARY, 1946—NUMBER 1

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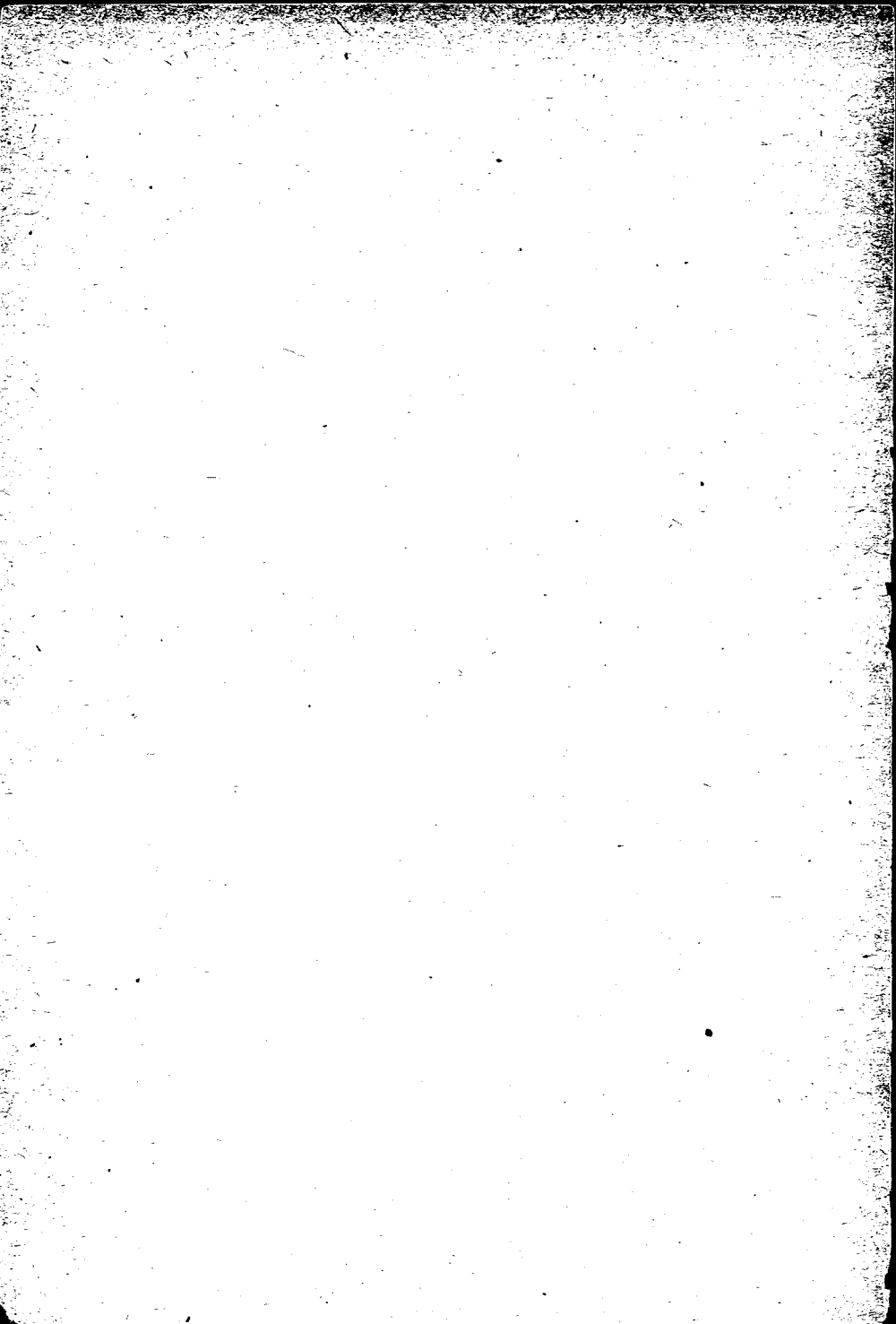
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THE CATALOGUE	1945-1946
ANNOUNCEMENTS	1946-1947

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# Veterans and the University

## Veterans' Education

The University is trying to meet as fully as possible the particular needs of men and women who on returning from the armed services desire to take up further study or professional training at the collegiate level. The office of Director of Veterans' Education has been established to deal with the problems of admission, credits, courses, housing, and relations with the Veterans Administration, as well as to assist with guidance and advice.

A pamphlet is available which gives details concerning the program. Requests for this or for any further information should be addressed to the Director of Veterans' Education, University of Vermont, Burlington, Vt.

## The Accelerated Program

The University is now offering an accelerated program for veterans only. According to present plans, opportunity will be provided for veterans who enter in October, 1945, January, April, and June, 1946, to complete a four-year course in June, 1949.

The College of Medicine will return to a normal program on April 1, 1946. The entering class for 1946 will be admitted in September, when the regular two-semester academic year of this college will begin.

## The Reserve Officers Training Corps

All male students in the undergraduate colleges, unless excused, must complete before graduation the two basic courses in Military Science. Veterans who have completed basic training are exempt from this requirement.

The advanced courses in Military Science for juniors and seniors and the course in Medico-Military Science for medical students, suspended during the war, will be reinstituted not later than October, 1946.

For details about these courses, see the Department of Military Science and Tactics.

## Breakage Fee

By special arrangement with the Veterans Administration, veterans are charged a special fee of \$2.00 a quarter for each laboratory course in lieu of any other charges for breakage.

# Calendar

1946

## JANUARY

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1947

## JANUARY

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# UNIVERSITY CALENDAR

## WINTER QUARTER, 1946

Saturday, January 5.....	Enrollment
✓ Monday, January 7.....	Classes begin
Saturday, February 23.....	Kake Walk, holiday
Tuesday, March 19 to Saturday, March 23.....	Examinations

## SPRING QUARTER, 1946

Saturday, March 30.....	Enrollment
Monday, April 1.....	Classes begin
Wednesday, May 1.....	Founder's Day
Thursday, May 30.....	Memorial Day, holiday
Saturday, June 8 to Thursday, June 13.....	Examinations
✓ Monday, June 17.....	Commencement

## SUMMER SESSION, 1946: July 8 to August 16

## SUMMER QUARTER, 1946

Saturday, June 29.....	Enrollment
Monday, July 1.....	Classes begin
Thursday, July 4.....	University holiday
Monday, September 2.....	Labor Day, not a holiday
Tuesday, September 10 to Saturday, September 14.....	Examinations

## FALL QUARTER, 1946

Tuesday, October 1.....	Freshman Preliminary Day
Wednesday, October 2.....	Freshman Enrollment
Thursday, October 3.....	Upperclass Enrollment
Friday, October 4.....	Classes begin
Wednesday noon, November 27 to Sunday, December 1	Thanksgiving Recess
Monday, December 16 to Friday, December 20.....	Examinations



## University of Vermont

## WINTER QUARTER, 1947

Saturday, January 4.....	Enrollment
Monday, January 6.....	Classes begin
Saturday, February 22.....	Kake Walk, holiday
Tuesday, March 18 to Saturday, March 22.....	Examinations

## SPRING QUARTER, 1947

Saturday, March 29.....	Enrollment
Monday, March 31.....	Classes begin
Thursday, May 1.....	Founder's Day
Friday, May 30.....	Memorial Day, holiday
Saturday, June 7 to Thursday, June 12.....	Examinations
Monday, June 16.....	Commencement

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His Excellency

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*Ex-Officio*

ON THE PART OF THE UNIVERSITY OF VERMONT

### *Elected*

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1941 \*MAURICE LESLIE KELLEY  
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1942 \*PEER PRESCOTT JOHNSON, A.B., M.D.  
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1942-46

1941 HORACE HENRY POWERS, Ph.B.  
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1943 HERBERT ROBBE PIERCE, B.S.  
Montpelier, Vt.

1942-48

1944 LYMAN ALLEN, M.D.  
Burlington, Vt.

1944 HENRY TRUMAN WAY, Ph.B.  
Burlington, Vt.

1944 JOHN STRATTON WRIGHT, A.B.  
University Club, New York City

1944-50

\* Replaced February 1, 1946, by William Murray Lockwood, Ph.B.; William Henry Wills, LL.D.; and Charles Frederick Branch, M.D.; for the term 1946-1952.

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1941	ASA SCHOONMACKER BLOOMER, Ph.B. West Rutland, Vt.	}	1943-49
1941	SMITH SEELEY REYNOLDS Middlebury, Vt.		
1943	CARROLL LEANDER COBURN, B.S. East Montpelier, Vt.		
1945	NORTON BARBER, A.B. Bennington, Vt.	}	1945-51
1941	WALLACE MACFIE FAY Proctor, Vt.		
1941	CLEON ARTHUR PERKINS, B.S. Rutland, Vt.		
1929	THOMAS CHARLES CHENEY, A.B. Morrisville, Vt.	}	1941-47
1939	WILLIAM CHESTER WALKER, Ph.B. Cabot, Vt.		
1941	JAMES EDWARD MANAHAN St. Albans, Vt.		

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CHARLES PERKINS MOAT, B.S. Assistant Professor Emeritus of Public Health	487 S. Willard St.

\* Deceased December 28, 1945.

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13

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\* Resigned December 17, 1945.

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PAUL KENDRICK FRENCH, M.D. Professor of Clinical Medicine	220 Pearl St.

## Associate Professors

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LELAND LAWRENCE BRIGGS, M.B.A. Associate Professor of Economics	13 Bay View St.
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FAYE CRABBE, A.M. Associate Professor of Nursing	61 N. Prospect St.
JAMES WALLACE MARVIN, Ph.D. Associate Professor of Botany	Spear St. So. Burlington

\* Absent on leave: Military Service.



CHARLES HUGO BLASBERG, M.S. Associate Professor of Horticulture	120 Robinson Pkwy.
DONALD CEDRIC HENDERSON, M.S. Associate Professor of Poultry Husbandry	55 University Ter.
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### Assistant Professors

†HAROLD IRVING WILLIAMS, B.S. Assistant Professor of Electrical Engineering	34 Elmwood Ave.
HOWARD GUY MILLINGTON, C.E. Assistant Professor of Mathematics	25 Plattsburg Ave.
ROBERT LELAND MAYNARD, M.D. Assistant Professor of Orthopedic Surgery	289 College St.
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BENJAMIN FRANKLIN LADD, A.M. Assistant Professor of German	Jericho, Vt.
EDWARD JAMES ROGERS, M.D. Assistant Professor of Clinical Medicine	Pittsford
LLOYD ABRAM WOODWARD, M.S. Assistant Professor of Physics	82 Henry St.
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RAYMOND AVERY HALL, A.M. Assistant Professor of English	12 Overlake Pk.
GEORGE HUBERT NICHOLSON, A.M. Assistant Professor of Mathematics	33 Prospect Hill

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ROLAND FREEMAN DOANE, A.M. Assistant Professor of Romance Languages	4 Cedar Lane
BENJAMIN BOOTH WAINWRIGHT, A.M. Assistant Professor of English	210 Pearl St.
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*ARCHIBALD THOMPSON POST, Ed.M. Assistant Professor of Physical Education for Men	
KARL CORNELIUS McMAHON, M.D. Assistant Professor of Ophthalmology and Clinical Instructor in Otolaryngology and Rhinology	381 S. Union St.
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LOUIS BENSON, M.D. Assistant Professor of Preventive Medicine	Pittsford

\* Absent on leave.

† Absent on leave: Military Service.

‡ Resigned January 26, 1946.

ARTHUR RUSH HOGAN, M.D. Assistant Professor of Clinical Surgery	8 S. Willard St.
PETER PAUL LAWLOR, M.D. Assistant Professor of Otolaryngology and Rhinology and Clinical Instructor in Ophthalmology	118 Ledge Rd.
EDWARD PERRY DISBROW, M.D. Assistant Professor of Clinical Dermatology	109 Longfellow Rd. Worcester, Mass.
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ROBERT McCRILLIS CARTER, JR., Ph.D. Assistant Professor of Agricultural Economics	334 College St.

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OSCAR SYLVANDER PETERSON, JR., M.D. Assistant Professor of Radiology	Essex Jct.
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Assistant Professor of Mechanical Engineering

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Assistant Professor of Civil Engineering

36 East Ave.

25 N. Prospect St.

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† Military leave.

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*GEORGE CHANDLER TULLY, M.D. Instructor in Clinical Urology	
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J. LOUIS PHILIPPE FOREST, M.D. Instructor in Clinical Psychiatry	Vermont State Hosp. Waterbury
MERVIN FOSSNER, M.D. Instructor in Clinical Pediatrics	804 Pleasant St. Worcester, Mass.
MARSHALL COLEMAN TWITCHELL, JR., M.D. Instructor in Ophthalmology	151 Ledge Rd.
*CONRAD WALL, M.D. Instructor in Clinical Neurology	
ROBERT DOWNING COX, M.D. Instructor in Clinical Medicine	Belmont Hosp. Worcester, Mass.
CHARLES IVES TAGGART, D.M.D. Instructor in Oral Hygiene and Dental Medicine	139 Bank St.
VIOLA RUSSELL, M.D. Instructor in Home Economics	258 S. Willard St.

\* Military leave.

HENRY LEE MILLS, D.V.M. Instructor in Public Health	339 Colchester Ave.
EDWARD LAWRENCE TRACY, B.S. Instructor in Public Health	37 Ledge mere St.
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ARTHUR DOWNING WARD, M.D. Instructor in Clinical Medicine	Belmont Hospital Worcester, Mass.
FRANCIS PEABODY COLBURN, Ph.B. Instructor in Art	118 S. Willard St.
CHARLES F. PARKER 1st Sgt., D.E.M.L., U. S. Army; Instructor in Military Science and Tactics	Woodvine St. Mayfair Pk. S. Burlington
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*HARRY JOSEPH ANTONIEWICZ, M.D. Instructor in Surgery	
BURTON HOLM, M.D. Instructor in Surgery	118 Spruce St.
HENRY ABNER LADD, M.D. Instructor in Clinical Psychiatry	Vermont State Hosp. Waterbury
PAUL GREEN LeFEVRE, Ph.D. Instructor in Physiology	403 Colchester Ave.
SISTER CORONA PARENTEAU, R.N. Instructor in Clinical Pathology	Bishop DeGoesbriand Hosp.
MARIAN ADAIR WALL, M.S. Instructor in Home Economics	376 College St.
MARY CAROLINE SMITH, A.M. Instructor in English	61 Summit St.
ODILE M. MORNEAULT, B.S. Instructor in Nursing	178 Summit St.

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Sergeant, U. S. Army; Instructor in Military Science and Tactics	
MRS. VIVIAN AMOS PETERS, M.A.	31 S. Prospect St.
Instructor in English	
TRUMAN MARION WEBSTER, A.B.	Shelburne
Instructor in Romance Languages	
ROBERT HAYDEN KROEPSCH, Ed.M.	11 Overlake Pk.
Instructor in English	
ERNEST WILLIAM HARTUNG, Ph.D.	176 Shelburne Rd.
Instructor in Zoology	
ARTHUR FREDERICK TUTHILL, M.S.	Fort Ethan Allen
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Assistant in Medicine	
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Assistant in Medicine	
ELIZABETH CHARLOTTE PAULSEN, A.B.	121 S. Willard St.
Assistant in Biochemistry	
CLARENCE EDWARD BOMBARD, M.D.	16 St. Paul St.
Assistant in Surgery	
JULIANO HUARD, B.S.	355 S. Union St.
Research Assistant in Pharmacology	
MRS. CHERYL PARKHURST	179 Loomis St.
Research Assistant in Physiology	
GEORGE JOSEPH GABUZDA, JR., M.D.	Mary Fletcher Hosp.
Resident in Medicine	

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BURNETT SHELDON RAWSON, M.D.	
Pathology	
MARY LORRAINE GANNON, M.D.	305 Maple St.
Pathology	
DEANE FREMONT MOSHER, M.D.	64 N. Union St.
Pathology	
MATTHEW TALMADGE MOOREHEAD, M.D.	Mary Fletcher Hosp.
Surgery	

\* Military leave.



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AARON HINMAN GROUT, Ph.B.  
Lecturer in Medical Jurisprudence

360 Main St.

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Cabot  
Winooski  
153 Park St.  
25 Nash Pl.  
72 Catherine St.

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Williston Rd.  
328 Pearl St.  
81 Williams St.

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Assistant Supervisor and Teacher Trainer  
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Assistant Supervisor and Teacher Trainer

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Supervisor and Teacher Trainer  
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Assistant Supervisor and Teacher Trainer  
MAURICE B. MORRILL, B.S.  
Director, Alfred P. Sloan Foundation Study in Applied Economics

416 Pearl St.  
230 S. Union St.  
7 Bilodeau Ct.

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HELEN IONE BROWN, B.S.  
Demonstration Teacher

Essex Junction

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HARRY JAMES PATTERSON, B.S.  
State Teacher Trainer and Assistant State Supervisor  
Trade and Industrial Education

Shelburne Rd.  
S. Burlington

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President of the University

25 Colchester Ave.  
Waterman Building

ELIJAH SWIFT, Ph.D.  
Dean of the College of Arts and Sciences

415 S. Willard St.  
Waterman Building

\*GEORGE FREDERICK ECKHARD, B.S., C.E.  
Dean of the College of Engineering and Director of the  
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178 Summit St.

EDD RUTHVEN McKEE, M.S., E.E.  
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188 Loomis St.  
Morrill Hall

HARRY ROSS VARNEY, Ph.D.  
Assistant Dean of the College of Agriculture; Assistant Director  
of the Agricultural Experiment Station; Assistant Director of the  
Agricultural Extension Service

502 North St.

MARY JEAN SIMPSON, Ph.B.  
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61 N. Prospect St.  
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PROCTOR HULL PAGE, LL.B.  
Treasurer and Business Manager

100 DeForest Rd.  
Waterman Building

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Administrative Secretary

206 Summit St.  
Waterman Building

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Director of University Libraries

448 S. Union St.  
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Superintendent of Buildings and Grounds, Purchasing  
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Director of Admissions

322 Pearl St.  
Waterman Building

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Waterman Building

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Waterman Building

153 S. Prospect St.  
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82 East Ave.  
Medical Building

461 Main St.

411 Main St.

Redstone Campus

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Redstone Campus

368 College St.  
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21 Williams St.

61 Summit St.

368 Main St.

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### Agricultural Economics

- |  |                |
|--|----------------|
| SHELDON WARD WILLIAMS, Ph.D.                                       | 40 Gilbert St. |
| THURSTON MADISON ADAMS, Ph.D.<br>Associate Agricultural Economists | 240 Loomis St. |

\* Absent on leave: Military Service.

ROBERT McCRILLIS CARTER JR., Ph.D.  
Rural Sociologist

334 College St.

ALAN MacLEOD, M.S.  
Collaborator

Beach Hall  
Storrs, Conn.

ROBERT PRINDLE STORY, B.S.  
Research Assistant

43 S. Prospect St.

### *Agronomy*

PAUL ROBERT MILLER, M.S.  
ALVIN REES MIDGLEY, Ph.D.  
Agronomists

Appletree Point  
41 University Ter.

LESTER HURLIN SMITH, M.S.  
KENNETH EVERSON VARNEY, M.S.  
JOSEPH BURNHAM KELLEY, M.S.  
Assistant Agronomists

Colchester  
5 School St.  
153 S. Union St.

### *Animal and Dairy Husbandry*

HOWARD BOWMAN ELLENBERGER, Ph.D.  
Animal and Dairy Husbandman

55 Robinson Pkwy.

OSMAN MYRON CAMBURN, M.S.  
JOHN ALVIN NEWLANDER, Ph.D.  
HOWARD CHESTER DICKEY, Ph.D.  
Associate Animal and Dairy Husbandmen

26 Robinson Pkwy.  
45 University Ter.  
19 School St.

JAMES MARSHALL FRAYER, M.S.  
Associate Dairy Bacteriologist

281 S. Winooski Ave.

### *Animal Pathology*

ERNEST FREDERICK WALLER, D.V.M.  
Animal Pathologist

R.F.D.  
Hinesburg Rd.

### *Botany*

JAMES WALLACE MARVIN, Ph.D.  
Botanist

Spear St.  
South Burlington  
126 No. Willard St.

ALEXANDER GERSHOY, Ph.D.  
\*WILLIAM RITCHIE ADAMS, Ph.D.  
FRED HERBERT TAYLOR, Ph.D.  
CHARLES CONRAD LARSON, M.S.  
Assistant Botanists

29 Adams Ct.  
43 N. Willard St.

### *Chemistry*

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65 Henderson Ter.

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15 N. Williams St.  
Shelburne

\* Absent on leave: Military Service.

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Home Economist

155 S. Prospect St.

MARGARET MARY ELIZA OPENSHAW, B.S.  
Assistant in Statistics

102 Summit St.

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Horticulturist

120 Robinson Pkwy.

ELWIN MARSHALL MEADER, M.S.  
Assistant Horticulturist

R.F.D. Hinesburg Rd.  
S. Burlington

## *Plant Pathology*

BENJAMIN FRANKLIN LUTMAN, Ph.D.  
Plant Pathologist

111 N. Prospect St.

## PUBLICATIONS

JOHN WALLACE SPAVEN, B.S.  
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242 S. Winooski Ave.

MRS. MARIE LOUISE LAVALLARD, M.S.  
Assistant Editor

Patchen Rd.  
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Essex Center

\* Deceased December 28, 1945.



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ROY STANLEY BECK, Ph.D. THURSTON MADISON ADAMS, Ph.D. Agricultural Economists	4 Bradley St. 240 Loomis St.
---	---------------------------------

\* On leave.

† Military leave.

PAUL ROBERT MILLER, M.S. Agronomist	Appletree Point
LESTER HURLIN SMITH, M.S. Assistant Agronomist	Colchester
ERNEST FREDERICK WALLER, D.V.M. Animal Pathologist	R.F.D. Hinesburg Rd.
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Addison County	

\* Absent on leave: Military Service.

† Absent on leave.

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35

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EDWIN BARTLETT ABBOTT Chief Accountant	21 Redstone Ter.
ALAN GRANT KENNEDY Assistant Accountant	57 Harrington Ter.

*Animal and Dairy Husbandry*

HOWARD BOWMAN ELLENBERGER, Ph.D. Animal and Dairy Husbandman	55 Robinson Pkwy.
JAMES MARSHALL FRAYER, M.S. Associate Dairy Bacteriologist	281 S. Winooski Ave.
JOHN ALVIN NEWLANDER, Ph.D. Associate Animal and Dairy Husbandman	45 University Ter.

*Animal Pathology*

ERNEST FREDERICK WALLER, D.V.M. Animal Pathologist	R.F.D., Hinesburg Rd. S. Burlington
---	--

*Farm*

GORDON HORATIO GATES, M.Ed. Farm Superintendent	University Farm
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*Horticulture*

CHARLES HUGO BLASBERG, M.S. Horticulturist	120 Robinson Pkwy.
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MRS. ANNA SHEPARD LUTMAN, Ph.B.  
Seed Analyst

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Essex Junction

## The Summer Session, 1945

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Agricultural Economist

HOWARD G. BENNETT, A.M.  
Professor of Music

ELIZABETH BRADISH  
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Home Management Specialist

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Demonstration Teacher, Grades 1 and 2  
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Languages

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Professor of Philosophy

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Women

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Professor of Economics

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- JOHN C. HUDEN, Ph.D.  
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State Teachers College, Buffalo, N. Y.
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Professor of Classical Languages and Literatures and Director of Recreation
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Director, Peter Pan Nursery School
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Assistant Professor of Music
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Assistant Professor of Psychology
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Demonstration Teacher, High School, Middlebury
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Principal, Central High School, Trenton, N. J.
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Associate Professor of Physics
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Associate Professor of Economics

# General Information

## HISTORY

The University owes its foundation to Ira Allen, who gave four thousand pounds to help establish a university in Burlington. He had aided more than any other one man in forming the State and in preserving its integrity through the troubled years preceding its admission to the Union. In 1791 the first General Assembly of the new State granted the charter for the University. Instruction was begun by the first president, Daniel C. Sanders, in 1800 and four years later the first class was graduated. In 1872 women were first admitted.

The Hon. Justin S. Morrill, Representative and later Senator from Vermont, sponsored the Morrill Land Grant Act of 1862, which provided for colleges to teach Agriculture and the Mechanic Arts. Under this act the Legislature chartered the Vermont Agricultural College in 1864, then the two corporations were joined by mutual agreement in a new corporation, the University of Vermont and State Agricultural College. Four-year courses in Agriculture and in Home Economics were offered in the College of Agriculture, and later the Experiment Station and Extension Service were established by the Legislature. Courses in Civil Engineering were first given in 1829, then four-year curricula in Civil, Electrical, and Mechanical Engineering followed.

The study of Medicine began with the appointment in 1804 of a lecturer in Chirurgery and Anatomy, and a full course of Medical Lectures was offered in 1822 by the cooperation of an association of doctors and the University. From this developed the Medical College, which was finally taken completely into the University in 1908. Since 1920 women have been admitted to this college.

## BUILDINGS AND GROUNDS

The grounds of the University at present include the main campus of about seventy-five acres, on which most of the academic and administrative buildings are located around the large "College Green," the women's residential campus to the south of about one hundred acres, Centennial Athletic Field of eleven acres, the University Farm for experimental and research projects, containing three hundred acres, and a Research Forest of more than three hundred acres in Jericho.



The buildings owned and occupied by the University for various purposes are valued at a total of over three and a half million dollars. They include the following:

Ira Allen Chapel, named for the founder and given by James B. Wilbur of Manchester, Vt.,

Billings Library, gift of Frederick Billings of Woodstock,

Robert Hull Fleming Museum, given by James B. Wilbur, Miss Katherine Wolcott, niece of Mr. Fleming, and six other friends of the University,

Morrill Hall, erected by the State in honor of Justin S. Morrill,

Slade Hall, the gift of Mrs. William Gerry Slade,

Mabel Louise Southwick Memorial, women's activity building, given in honor of Miss Southwick,

Waterman Memorial, built from the large estate given the University by the Hon. Charles W. Waterman of Denver, Col.,

Williams Science Hall, the gift of Dr. Edward H. Williams of Philadelphia,

Art Center, formerly the Park Gallery of Art and more recently the Engineering Annex, offering facilities for expanded activity in Art, Engineering Building,

Gymnasium,

Medical College,

Old College Building,

Music House,

Eight dormitories, for men and women.

#### 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. The observations of the Station are sent regularly to the Seismology Branch of the Coast and Geodetic Survey at Washington.

## DORMITORY FOR MEN

#### CONVERSE HALL (*Erected 1895*)

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

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

## WOMEN'S DORMITORIES AND DINING HALLS

All women students enrolled in undergraduate courses are required to procure rooms approved by the University. Applications should be made early to the Dean of Women. Rooms in college dormitories are rented for the entire year. An initial payment of five dollars is required to make an advance reservation. This is applied later on the room rental. Dormitory rooms are not supplied with bed linen (except mattress pads) or blankets, rugs, window curtains or easy chairs. College houses open on the Monday preceding enrollment and students should not plan to come to the dormitories before that time.

Rooms in college dormitories are rented for the entire year. The prices are uniform in all dormitories. Double rooms are \$45 per quarter per occupant, single rooms \$60. Students living in college owned dormitories board at the Waterman Dining Hall or Robinson Hall. The price for board is \$95 per quarter.

There are four Cooperative Houses, owned by the University, where for a selected group expense for board can be reduced by carefully planned, low-cost meals, prepared and served under the supervision of the House Director. Students are selected on the basis of character, scholarship, and relative need.

Those who cannot be accommodated in the dormitories will be assigned rooms in approved private houses, which are supervised by the University.

*No final choice of rooms may be made without the approval of the Dean of Women.* Enrollment is not permitted until this approval has been given.

## THE WASSON MEMORIAL INFIRMARY

The Wasson Memorial Infirmary, completely equipped and staffed, was opened in October, 1945 in the Wheeler House, adjoining the main campus. Provision is made for physical examinations of entering students, general health service, and infirmary care for such illnesses as do not require hospitalization. Cases of serious illness are sent to one or other of the two modern, well-equipped hospitals which are adjacent to the campus.

The infirmary operates under the following regulations:

1. Every student paying the Health Fee for the normal college year of nine months is entitled to a maximum of ten days of free infirmary care and such medical care as is needed and as the infirmary and Health Service can render during the nine months' period,

2. Students who require infirmary care for more than ten days in the college year are charged therefor at the rate of \$2.00 per day.
3. Students paying the regular University board rate are not charged for meals served when they are patients in the infirmary. Other students are charged at the rate of \$1.25 per day.

## EXPENSES AND FEES

### EXPENSES IN ACADEMIC COLLEGE PER QUARTER

Matriculation Fee (new students only) .....	\$ 5.00
Tuition Fees (for exceptions, see below) .....	117.00
Student Activity and Health Fee .....	11.00
Textbooks and Supplies .....	15.00 to 20.00
Laboratory Fees .....	None to 15.00
Room Rent in Dormitories .....	45.00 to 60.00
Board in Dining Halls .....	95.00
<hr/>	
Average Total .....	About \$300.00

### MATRICULATION FEE

This fee of five dollars is required of all new regular session applicants, upon acceptance for admission and, in the case of women, approval of rooming arrangements. Advance payments will be refunded to applicants who are not accepted. No refunds will be made to those who are accepted but do not enroll.

### TUITION FEES

A tuition fee of \$117.00 (\$116.00 for the spring quarter) is due and payable at the opening of each quarter in the College of Engineering, in the College of Agriculture except for those who are residents of Vermont, and in all curricula in the College of Arts and Sciences except the Secretarial and Commercial Teaching Curricula. These two curricula require special courses, not open to others, and the added charge of \$11.00 for this specialized training makes the total tuition \$128.00 each quarter. In the College of Agriculture the tuition charge is reduced for Vermont residents to \$50.00 per quarter through a tuition scholarship of \$200.00 per academic year granted such students by the State. The State enactment also provides that "any student transferring from courses in agriculture and home economics to other courses within the University, or to another educational institution, shall refund to the treasurer of the University . . . .

any sums which have been received as scholarships under this section, unless excused therefrom by the president."

For an enrollment of fewer than twelve hours the charge is \$10.00 per quarter hour. The same fee is charged students carrying for credit courses in excess of the normal program in the several curricula. The Deans may grant students permission to audit courses in addition to a normal enrollment without additional fee. Such students are expected to do all the work of the course. They receive grades which are entered on their records, but no formal credit is allowed.

Students who by reason of conditions over which they have no control require more than four years to complete the requirements for a degree shall be charged no more than the full tuition for four years.

THE DEPARTMENT OF EDUCATION. For information concerning the tuition fees of students in Elementary Education, see page 83.

THE COLLEGE OF MEDICINE. The tuition fee is \$200 each semester for Vermont students and \$275 for non-residents. Students allowed to repeat any year are charged full tuition for the repeated year. There are fifty State Scholarships of \$100 a year each, reducing the tuition to \$300 a school year for about half the enrolled Vermont students.

SUMMER SESSION TUITION. There is an enrollment fee of \$2.50 and a tuition charge of \$7.85 per quarter hour. For certain courses the tuition of Vermont teachers is paid by the State Board of Education.

EXTENSIONS AND REFUNDS. Extensions, when necessary, may be arranged with the Treasurer. Refunds of tuition to students who withdraw during a quarter are made as follows:

1. During the first week of any quarter the full amount is refunded. Thereafter the portion refunded is decreased by 20 per cent for each week of the quarter which has elapsed at the time of withdrawal.
2. No refund is made of the matriculation fee, student activity and health fee, or laboratory fees.
3. No refund of room rent is made unless a replacement can be found.
4. Refund of board charges is made on a pro-rata basis for the balance of the quarter.

## STUDENT ACTIVITY AND HEALTH FEES

All classified students in the College of Arts and Sciences, the College of Engineering, and the College of Agriculture pay at the opening of each quarter an inclusive fee for \$11.00. Of this amount, \$3.33 is designated as a Health and Infirmary fee, \$2.67 as a Physical Education fee, and \$5.00 as a Student Activity fee. The last covers class and year-book taxes, sub-

scription to the University newspaper, and the support of recognized student organizations and activities. It is controlled and allocated by Student Government.

First-year medical students who entered the College after three years in the College of Arts and Sciences are charged a similar fee of \$12.50 each semester for health and infirmary service, and student activities, including the Osler Club.

All other students in the College of Medicine are charged \$6.75 each semester for health and infirmary service and Osler Club fee.

### LABORATORY, STUDIO AND PRACTICE TEACHING FEES

The following schedule of fees applies to students who enroll in these courses. They represent a partial payment of the cost of supplies and materials consumed, depreciation and replacement of apparatus, and the expense of providing the special facilities incident to the courses. These fees are payable at enrollment.

SUBJECT	FEE EACH SEMESTER
Agricultural Economics 3 .....	\$ 2.50
Agricultural Economics 8 .....	1.00
Agronomy 1, 2, 3, 4, 7, 101 .....	2.50
Animal and Dairy Husbandry 1, 101, 102, 103 .....	2.50
Animal and Dairy Husbandry 4, 9, 104, 105 .....	4.00
Animal and Dairy Husbandry 106, 107, 108 .....	5.00
Animal Pathology 3, 5 .....	2.50
Art 11, 12, 13 (for two quarters only) .....	1.00
Art 21, 22, 23, for two hours credit \$1.50, for three hours .....	2.00
Botany 1, 2, 3, 4, 5, 6, 104, 105, 107, 108, 109, 131, 132 .....	1.50
Botany 101, 102, 113, 125, 128, 129 .....	2.00
Botany 111, 117, 120, 121, 122 .....	4.00
Chemistry 1, 2, 3, 20, 21, 22, 101, 102, 103, 104, 105, 106, 110, 111, 112, 144 .....	3.50
Chemistry 6, 143, 198, 199 .....	5.00
Chemistry 10, 11 .....	7.50
Education 108, 109 .....	5.00
Education 110, 111 .....	2.00
Elementary Education for all students except freshmen .....	1.00
Elementary Education 4, 5, 7, 8, 20, 21 .....	1.00

## General Information

45

Engineering (per laboratory credit hour) .....	2.00
Summer Camp (off campus) .....	15.00
Summer Camp (on campus) .....	6.00
<b>Home Economics</b>	
Clothing and Textiles 1, 2, 3, 4, 6, 103, 104, 105, 106, 111 .....	2.50
Food and Nutrition 101, 110 .....	5.00
Food and Nutrition 51, 52, 53 .....	3.50
Food and Nutrition 54, 103, 105, 106 .....	3.00
Home Economics Education 102 .....	10.00
Housing 51, 101, 104 .....	2.50
Horticulture 1, 4, 5, 100 .....	2.50
Horticulture 2, 3 .....	2.00
Physics 1, 2, 3 .....	2.00
Physics 11, 12, 13, 121, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 173, 181, 182, 183 .....	4.00
Poultry Husbandry 2 .....	5.00
Poultry Husbandry 4 .....	3.00
Zoology 1, 4 .....	2.50
Zoology 2, 26, 109 .....	3.00
Zoology 3, 23 .....	5.00
Zoology 103 .....	announced annually

### DEGREE FEES

The fee for the Baccalaureate Degree, payable just prior to graduation, is ten dollars (\$10.00); for the Master's Degree, the technical Degrees of C.E., E.E. or M.E., and the Doctor's Degree the charge is twenty-five dollars (\$25.00).

### SPECIAL FEES

**LATE ENROLLMENT FEE.** A fee of six dollars may be charged students who fail to complete enrollment at the appointed time. Exemptions from this charge may be made by the several Deans.

**MILITARY FEE.** Freshman men are required to pay a military fee, which varies somewhat from year to year. The current fee is six dollars.

**COLLEGE OF ENGINEERING.** A fee of \$15.00 a session is charged for the Engineering Summer Camps. For the special course in Solid Geometry, which is required only of students not presenting this subject for entrance but may be recommended to others, there is a fee of \$10.00. The actual cost of repairing or replacing engineering laboratory equipment damaged through improper or careless use will be charged to the students responsible.

## APPLIED MUSIC FEES

## PIANO, ORGAN, VIOLIN AND SINGING

One lesson a week .....	\$23.50 per quarter
Two lessons a week .....	40.00 per quarter
Use of practice room and piano one hour a day .....	3.50 per quarter
Use of organ one hour a day .....	16.50 per quarter
Class lessons in diction for singers, one hour a week .....	10.00 per quarter

Private lessons are approximately one-half hour in length, ten being given in each quarter. Students who enroll as regular full-time students in the Music Education curriculum, paying full tuition, will be charged one-half the regular rates for applied music for such courses as are required in the curriculum. All others pay the above scheduled charges. The Practice Room charges apply to all students.

## STUDENT AID

Only part of the cost of the student's education is met by student fees. The balance is met from the income on endowment, State and Federal appropriations, and from current gifts. In this way, the University furnishes from one hundred to nine hundred dollars a year toward the education of each student, a total of four hundred dollars or more for each four-year student. In addition, the University provides in the form of scholarships, employment, and loans such financial aid as its resources permit to students who cannot otherwise meet the charges. Application for such aid should be made to the Student Aid Committee on forms which may be obtained at the Dean's Office or the Registrar's Office.

## \* SCHOLARSHIPS

Any student who receives an endowed or current scholarship in consideration of financial need will be expected to repay that scholarship should he at any time prior to graduation transfer to another institution.

†*Ira Allen*. For men only. One thousand four hundred dollars each, or full tuition for four years. The number varies from year to year. Apply to the Director of Student Personnel.

*Honor*. Two hundred dollars each, for the freshman year only, awarded in each accredited Vermont high school to the highest standing boy and girl eligible for admission to the University.

\* A list of endowed Scholarships and Loan Funds will be found in the appendix.

† Suspended temporarily.

\**Debating.* Eight scholarships of \$150 to \$300 each.

*Editorial.* Six scholarships of \$100 to \$175 each.

\**Prize Speaking.* Twelve scholarships of \$75 to \$150 each.

\**Vocal.* Eighteen scholarships of \$75 to \$150 each.

*Literary.* Seven scholarships of \$50 to \$75 each.

*Senatorial.* One hundred twenty at \$120 each, thirty for students in Agriculture, and ninety for others, of which thirty are for Home Economics students only. Apply direct to State senators.

*Elementary Education.* A limited number of scholarships, varying in amount according to qualifications and need, are awarded annually by the State Board of Education to students in Elementary Education, in addition to the tuition exemption.

*Endowed Scholarships.* About forty, available to residents of particular towns of the State, and others available to non-residents.

*Wilbur Fund.* The income from the fund is available to needy students who are residents of Vermont and have an average of 86 or more, in amounts varying with individual needs.

*Classical Scholarships.* Six annually of \$150 each are offered to sophomores who are residents of Vermont and five of \$200 each to freshmen from other states. Appointees will study Greek and Latin, either as major subjects or as background for other work. Applicants from outside Vermont must have completed at least three years of preparatory Latin with honor grades. The scholarships will be continued through the college course for those who maintain the required standard of scholarship and continue the study of Greek and Latin. Address inquiries to Professor L. M. Prindle, 380 Maple Street, Burlington, Vt.

## †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.

## STUDENT EMPLOYMENT

The University Employment Bureau is maintained to assist any student enrolled in college in securing either regular or occasional work. The col-

\* Suspended temporarily.

† A list of endowed Scholarships and Loan Funds will be found in the appendix.



lege employs a number of students in the college buildings, dormitories, cafeteria, and academic departments. Students are encouraged not to seek employment unless their financial need is genuine and unless they are able to carry a normal college program with time to spare for employment.

## HONORS

### GENERAL HIGH STANDING

The Bachelor's Degree may be conferred "with Honors," by vote of the Senate, in recognition of general high standing in scholarship. Three grades are distinguished and indicated by inscribing on the diploma the words *cum laude*, *magna cum laude*, or *summa cum laude*. In the College of Medicine, the five students who have attained the highest average of marks during the entire four years' course are graduated as Doctors of Medicine, *cum laude*. The names of those who have received these honors and of those who have won prizes will be printed in the Commencement program and in the next annual Catalogue.

### SPECIAL HONORS IN THE COLLEGE OF ARTS AND SCIENCES

A student in the College of Arts and Sciences who at the end of his junior year has an average of 85 or above for the work of the sophomore and junior years, may become an applicant for Special Honors in a particular subject. His program for the senior year must be approved not later than the end of the junior year by the department in which Honors are sought and by the Committee on Honors, and he must present a satisfactory thesis and pass an oral examination on the field of special study.

### DEANS' LISTS

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

### PHI BETA KAPPA

The Phi Beta Kappa Society established the Vermont Alpha Chapter at the University in 1848. Elections of seniors are made in December and at Commencement. The initiates are chosen primarily on the basis of high scholastic standing. The local chapter was the first in Phi Beta Kappa to initiate women into membership.

## DEGREES

Degrees are conferred on the recommendation of the different Colleges, and specific requirements will be found in the sections devoted to the respective Colleges. No student is eligible for a degree unless he has completed twelve quarters, or the equivalent in semesters and quarters, except that permission may be granted in special cases by the University Council. With the exception noted in the next sentence, every candidate for a degree is required to spend his final year in residence. Those who have completed three years of pre-medical study in the University are awarded their degrees after one year of study in any approved College of Medicine. The degrees are as follows:

### COLLEGE OF ARTS AND SCIENCES

LIBERAL ARTS CURRICULUM; *Bachelor of Arts* (B.A.)

PRE-MEDICAL (3YRS.) AND MEDICINE (1 YR.); *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.)

MEDICAL TECHNOLOGY CURRICULUM; *Bachelor of Science in Medical Technology*. (B.S. in M.T.)

NURSING CURRICULUM; *Bachelor of Science in Nursing*. (B.S. in N.)

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

MUSIC EDUCATION CURRICULUM; *Bachelor of Science in Music 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.)

\* 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 University Council. These curricula are without specific college affiliation.

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

#### COLLEGE OF AGRICULTURE

AGRICULTURAL CURRICULUM; *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.)

### GRADUATE STUDY

The Graduate Council and Director of Graduate Study supervise graduate instruction. The degrees of Master of Arts, Master of Science, and Master of Education may be earned by qualified students in regular or summer sessions of the University. 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.

#### ADMISSION TO GRADUATE STUDY

Applicants for admission must hold a Bachelor's degree from an approved college or university.

New students should apply for admission to the Director of Graduate study, submitting transcripts of their undergraduate records and, if possible, reports of attainment in the Graduate Record Examination. The latter forms a valuable supplemental means of judging an applicant's preparation for graduate study. The Examination may be taken in any region of the United States. Inquiries may be addressed to the Director of Graduate Study or directly to The Graduate Record Examination, 437 West 59th Street, New York 19, N. Y.

Candidates must register with the Director at the beginning of each University session spent in residence. The program of graduate work proposed by each student must be approved by the departments in which the work is to be done, by the Director of Graduate Study and, in the case of work pursued in summer sessions, by the Director of the Summer Session.

## FEES

The matriculation fee and tuition charges are the same as for undergraduate students, provided, however, that a student who takes more than a year to complete the requirements, because of working on a part-time schedule, will be charged no more than one year's tuition, or \$350. No laboratory fees are charged, but charges will be assessed for breakage. The fee for the Master's and technical degrees is \$25.00.

## UNIVERSITY TEACHING FELLOWSHIPS

The University offers a number of teaching fellowships with stipends varying from \$500 to \$1100 (\$350 of the amount is applied on tuition). These fellowships are provided to encourage students whose undergraduate records and personal qualities give promise of success in research or in the profession of teaching.

The recipient of a fellowship is required to work for the Master's degree and to assist in the work of the department in which he holds the fellowship. Such duties will vary with the size of the stipend, a maximum of half-time service being expected of recipients of the larger amounts.

Applications for fellowships should be addressed to the Director of Graduate Study and should be filed not later than March 15 of the academic year preceding that for which the application is made.

## EXPERIMENT STATION FELLOWSHIPS

A number of fellowships of \$900 each, with exemption from the tuition fee, 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 GEORGE H. WALKER DAIRY FELLOWSHIP

This fellowship provides a stipend of not less than \$700, with exemption from the tuition fee. It is 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 a fellowship every third year.

## SCHOLARSHIP AID

Graduate students may receive scholarship aid on the same basis as undergraduate students. Details are given under "Student Aid," for which see Index.

## REQUIREMENTS FOR DEGREES

### MASTER OF ARTS AND MASTER OF SCIENCE

In judging the attainments of candidates for these degrees, the Graduate Council places greatest emphasis upon ability to do original research in the chosen field of specialization. Hence, the number of undergraduate and graduate courses required will vary with the preparation and needs of the individual student.

It follows that there is much variation in the time required to earn the degree. A student able to devote his full time to graduate work and not required, because of inadequate preparation, to take many preliminary courses may earn the degree in one academic year or in a total of four summer sessions, except in the fields of Biochemistry, Chemistry, and Physics, in which a minimum of two years is normally required. Holders of fellowships requiring that a substantial portion of time be devoted to teaching or other duties must expect that at least two academic years will be necessary to complete requirements for the degree.

**FIELD OF SPECIALIZATION.** At the outset of graduate work each student must select a field of specialization. Because of the individual nature of most of the work, the number of candidates selected to specialize in any one department must be limited. All inquiries concerning the opportunities for research in each department will be referred to that department. Only applicants who desire to work along lines in which the University offers advantages will be accepted.

The department in which a student elects to specialize will require of him such courses and assigned readings as may be deemed necessary to his graduate education.

Each student will undertake a problem of original research under the direction of a member of the department in which he is specializing. At the conclusion of the investigation the student must present a thesis embodying the results obtained and demonstrating his capacity for independent research. The thesis must be suitably bound for deposit in the University library.

Upon completion and approval of the thesis, the candidate must pass an oral examination designed to test the thoroughness of the work done and his fitness for the degree.

The thesis must be presented not later than two weeks prior to the commencement at which it is hoped the degree may be conferred.

**FIELD OF RELATED STUDY.** In consultation with the supervisor of his field of specialization, each student must select a field of related study in a department other than that in which he is specializing. A member of the

department in this related field will supervise this aspect of the program. Students will ordinarily be required to take at least nine hours of advanced courses in this field.

### MASTER OF EDUCATION

The degree Master of Education is offered to students who wish to specialize in Education and whose undergraduate records indicate capacity for graduate study.

The Department of Education will plan for each student a systematic course of study, supervised by the head of the Department and subject to the approval of the Director of Graduate Study. At least forty-five quarter hours of approved graduate work must be taken and passed with distinction. Not less than nine of the forty-five quarter hours must be devoted to a field of related study in departments other than the Department of Education. The course entitled, "The Intellectual Background of Modern Life" is required of all candidates for this degree.

The Department of Education will assign each candidate a course of readings upon which an oral preliminary examination will be given.

At least four summer sessions will be required to complete the program of work. The time may be increased if a student's preparation in Psychology and Education is insufficient, in which case additional courses of undergraduate grade in these fields will be required.

Upon satisfactory completion of the work outlined above, the candidate must pass an oral comprehensive examination on the fields of specialization and related study. The showing made by the candidate in the comprehensive examination will determine largely whether or not the degree shall be granted.

A thesis may be accepted in lieu of nine quarter hours of graduate courses. The thesis must be developed under the direction of the Department of Education and must be approved by the Director of Graduate Study.

### PROFESSIONAL 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. At least four years must have elapsed since the candidate's graduation. For at least three years the candidate must have held positions of responsibility in his profession and have shown ability to design and execute important engineering work.

At least six months before the end of the year in which the degree is sought the candidate must present to the Director of Graduate Study a statement of his technical training and experience, together with the topic

upon which he proposes to submit a thesis. The thesis must embody the results of original investigation upon some technical subject. The professional record and thesis topic must be approved by the College of Engineering and by the Executive Committee of the Graduate Council.

The thesis must be presented to the Director of Graduate Study not later than three weeks prior to commencement. The thesis must be approved by the College of Engineering and by the Executive Committee of the Graduate Council.

## UNIVERSITY EXTENSION

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

The Extension work includes:

1. THE AGRICULTURAL EXTENSION SERVICE (See Index).
2. SUMMER SESSION.
3. EDUCATIONAL CONFERENCES.
4. CONFERENCE WITH EDITORS OF HIGH SCHOOL PUBLICATIONS.
5. ADULT EDUCATION. Courses in a variety of subjects may be given in any town where a reasonable number of interested persons can be enrolled. On successful completion of such courses, limited credit will be given by the University toward a degree, or by the State Board of Education toward a higher teacher's certificate. For further information address the Director of Adult Education.
6. THE ROBERT HULL FLEMING MUSEUM. The Museum offers a number of extension projects for clubs, libraries, and schools, makes exhibits available to city and rural schools, carries on the Classroom Film Pool with fifty member schools, and offers on Saturday mornings entertainment, moving pictures, and illustrated talks to school pupils. The Fleming Museum Art Association, with the staff, arranges addresses and special art exhibits, which are free to the public.

## THE SUMMER SESSION

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

1. Students or teachers who have completed a four-year college course and who wish to take advanced work for credit toward the Master's degrees.
2. Principals and superintendents of schools who desire to take fundamental or specialized courses in the fields of Educational Administration and Supervision.
3. Students or teachers with adequate preparation who desire to take courses leading to a Bachelor's degree.
4. Teachers in elementary or secondary schools who desire to earn credit toward State teachers' certificates of higher grade or who desire to broaden their knowledge of the subjects they teach.
5. Students who desire instruction in Art, Music, Visual Instruction, or Physical Education.
6. Students who need certain required courses for admission to college.
7. Persons who desire to take, without credit, courses for self-improvement.

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

## EDUCATIONAL CONFERENCES

### TEACHERS' CONFERENCE

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

The project is a part of the University's contribution to the effort which is being made by the various educational forces of the State to improve our institutions of all grades from the primary school to the college and the University. In selecting a topic for the conference an effort is made to look to the future and anticipate the problems which Vermont must consider. The aim is to bring to the teachers of the State, year by



year, expert reports and opinions relating to some of our many serious educational problems. This conference is held in connection with the convention of the Champlain Valley Teachers' Association.

## HEALTH, PHYSICAL EDUCATION, ATHLETICS

The University has complete facilities to maintain the physical well-being of members of the student body. The institution provides a Student Health Service and Departments of Physical Education for men and for women.

The University Health Service, organized in 1941, is staffed by two physicians and a registered nurse who are available at regular hours in the infirmary. The service includes complete physical examinations for all incoming students, the examination of members of athletic squads, care of injuries, consultation on all health and medical problems, and medical care of students who are unable to pay for private medical care. All illnesses are reported to the Health Service and excuses issued for absences caused by illness.

Every student at the University is required to participate in the Physical Education program for two years. Normally this work is taken in the Freshman and Sophomore years, but may upon occasion be postponed on the advice and authorization of one of the University physicians.

The Physical Education activities for men are carried on in the University Gymnasium, the baseball cage, and on playing fields adjoining. The Physical Education activities for women are centered in the Southwick Memorial Building on the Redstone campus and upon the playing fields nearby. A large number of tennis courts, and a skating and hockey rink are provided for the use of all students. Skiing privileges are available on the college campus and also on Mt. Mansfield.

A program of intercollegiate competition is maintained in football, baseball, basketball, track, cross-country running, tennis, and rifle marksmanship. The athletic policies of the University are under the direction of the Athletic Council, composed of members of the faculty, the student body, and alumni. Athletic relations are maintained with colleges and universities in New England and the eastern seaboard in all the sports mentioned above. The athletic teams are under the direction of a corps of experienced coaches.

## RELIGIOUS LIFE

The University, although not affiliated with any denominational body, provides a rich program of religious activities. Formal courses of instruc-

tion are offered in the College of Arts and Sciences in Bible, Comparative Religion, and the History of Religion.

All religious activities on the campus are coordinated by a Committee on Religious Life, composed jointly of students and faculty members, with representatives from different faiths. The Committee sponsors the University's religious services, including a weekly morning Chapel service and frequent vesper services on Sunday afternoons; it serves to coordinate the activities of the student associations devoted to religious and social service programs, such as the Vermont Christian Association and the Young Women's Christian Association; it also cooperates with the several sectarian organizations, the Newman Club for Catholic students, the Hillel Foundation for Jewish students, and several protestant denominational groups. Inter-denominational and inter-faith meetings are held, with speakers of national reputation as guests.

The several churches in Burlington are delighted to welcome University students, and cooperate with the Committee on Religious Life in sponsoring many student activities.

## ORGANIZATIONS

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

## FACULTY-STUDENT COUNCIL

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

Council. Requests must be presented to the secretary at least one week before the date on which it is proposed to hold the dance.

### WOMEN'S STUDENT UNION

Every woman who enrolls as a student at the University, unless she is a resident of Burlington and living with her parents or guardian, automatically becomes a member of the Women's Student Union Association and is thereafter subject to its authority. This organization regulates all matters of student conduct which are not academic in nature. By distributing responsibility and encouraging participation in its activities Student Union aims to develop individual leadership and to encourage self-direction. A social conscience and high ideals of personal integrity are promoted through the honor code. Cooperation based upon a thorough understanding of the rules and regulations of the Association is expected of each student.

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

### U. V. M. STUDENT GOVERNMENT

"In order to bring about a systematic administration of student affairs on this campus, to codify existing customs and traditions of the University of Vermont, and to provide for an organized student control of campus activities, we, the students of U. V. M., adopt this constitution." So reads the constitution of the University of Vermont Student Government. All students shall be voting members of this organization on payment of the Student Activity Fee. Meetings are held once a month during the college year and may be called at any time by the President of the University, President of the Student Government, five or more members of the Executive Committee, or by the petition of fifty or more members presented to the Executive Committee at least ten days prior to the proposed date of the meeting. There exists also a U. V. M. Student Court consisting of members of each undergraduate college for the purpose of trying such problems of discipline and social conduct as shall be designated to its Committee.

### HONORARY SOCIETIES

The Boulder Society, a self-perpetuating group of Senior men, is recognized as an organization responsible for student leadership. Election to this society is counted one of the highest honors that a University man

may win. A feature of each Founder's Day is a meeting of this organization at which time the names of new members are announced.

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

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

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

The Sophomore Aides, fifteen in number, are elected annually by the Sophomore class from those who in their Freshman year gave evidence of the qualities of scholarship, leadership, and service. The members serve as assistants to Mortar Board.

## MISCELLANEOUS ACTIVITIES

About one hundred varied activities receive enthusiastic support of U. V. M. undergraduates. Following is a summary in which the activities are segregated according to their particular nature:

### RELIGIOUS ORGANIZATIONS

Collegium  
Newman Club  
Pilgrim Fellowship  
Vermont Christian Association  
Y. W. C. A.

### STUDENT GOVERNING BODIES

U. V. M. Student Government  
Women's Student Union

### SOCIAL GROUPS

Fourteen Fraternities  
Independents  
Seven Sororities

### HONORARY SOCIETIES

Alpha Zeta  
Boulder

Cap and Skull  
Champlain Sabers  
Gold Key  
John Dewey Club  
Kappa Phi Kappa  
Key and Serpent  
Mortar Board  
Omicron Nu  
Phi Beta Kappa  
Sophomore Aides  
Staff and Sandal  
Tau Kappa Alpha

### LITERARY ACTIVITIES

*Ariel*  
Bluestockings  
*Cynic*  
*Freshman Handbook*

Press Club  
Scribes

**DEPARTMENTAL CLUBS**

Aggie Club  
A. I. E. E.  
A. S. C. E.  
A. S. M. E.  
Chemistry Club  
Future Farmers  
Graduate Club  
Home Economics Club  
Osler Club

**DRAMATICS**

Dramatic Club  
Group Plays  
Kake Walk  
University Players

**MUSIC**

Campus Sings  
Chapel Choir  
Chapel Orchestra  
Men's Glee Club  
Women's Glee Club  
R. O. T. C. Band  
University Orchestra

**LANGUAGE**

Goodrich Classical Club  
Le Cercle Français

**DEFENSE COURSES**

First Aid  
Home Nursing

**MEN'S ATHLETIC ASSOCIATION**

Baseball  
Basketball  
Bowling  
Boxing  
Fencing  
Football  
Golf  
Handball  
Hexathlon Championship  
Hiking, Outing Club

Hockey  
Horseshoes  
Rifle  
Rugby  
Skating  
Skiing  
Softball  
Swimming  
Tennis  
Track  
Tumbling  
Volleyball  
Wrestling

**WOMEN'S ATHLETIC ASSOCIATION**

Archery  
Badminton  
Basketball  
Bowling  
Dance Workshop  
Deck Tennis  
Diving  
Field Hockey  
Folk Dancing  
Golf  
Life Saving  
Lilac Day  
Modern Dancing  
Outing Club  
Ping Pong  
Rifle  
Shuffleboard  
Skating  
Skiing  
Softball  
Square Dancing  
Swimming  
Tennis  
Volleyball

**MISCELLANEOUS**

Federal Inspection  
Junior Week  
Senior Week  
Photography Club

## PUBLICATIONS

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

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

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

## SCHOLASTIC REPORTS

All students enrolled in the Academic Colleges receive reports of scholarship from the Registrar's office after the close of each quarter. Special reports of low standing are sent by the Dean's offices about the middle of each quarter. All these reports are made both to the student concerned and to his parent or guardian.

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

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

## GRADING SYSTEM

Scholarship is graded on a percentage scale. Passing grades are reported and recorded numerically. The numerical grades, with the equivalent letter grades, are:

98 (A+), 95 (A), 92 (A—) Excellent

88 (B+), 85 (B), 82 (B—) Good

78 (C+), 75 (C), 72 (C—) Fair

68 (D+), 65 (D), 62 (D—) Poor

Failing grades are X, indicating a condition which may be removed by re-examination, or by exception in some other way, and F, indicating a more serious failure which requires repetition of the course if any credit is to be received.

## ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the dis-

ciplinary powers of the University, which is free to cancel his registration at any time on any grounds if it considers such action to be for the welfare of the institution. The disciplinary authority of the University is vested in the President in such cases as he considers proper, and, subject to the reserve powers of the President, in the several Deans.

#### USE OF ENGLISH

Correct English usage is demanded by all departments in the University. Written work of any kind which is unsatisfactory in manuscript form, grammar, punctuation, spelling, and effectiveness of expression will be penalized, regardless of contents. Students whose written work falls below the standard of correct usage may be remanded to the English Department for additional instruction, even though Freshman English has been passed.

# Admission

## \* THE ACADEMIC COLLEGES

The University of Vermont desires to admit students of high character and serious purpose who are qualified to do college work. It seeks as much information as possible about a student before his application is considered. A composite estimate of his capacity to profit by college work is formed from the following items:

1. The recommendation of the school principal.
2. The candidate's rank in his graduating class.
3. The school record of courses completed.
4. A test of scholastic aptitude and of achievement in English or Mathematics.
5. A personal interview.

Of these five items no one is considered as all important in itself. The important thing is the composite picture which results from the combined evidence of them all.

The information collected in connection with a student's application has another distinct value. It is used by the student's personal advisor in guiding the choice of a curriculum and of particular courses. Since education is a continuous process, the University hopes to receive all possible information from the high school for use in planning the college course best adapted to the individual.

Each college of the University desires that its students present a well integrated course of preparation, including certain subjects which it regards as especially desirable. These subjects are not absolutely required, but rather suggested to the high school student and advisor as suitable preparation for college work. Other qualifications being equal, preference is given to those who present the subjects which are deemed especially desirable.

Students will be admitted without any entrance conditions, except in subjects which are prerequisite to courses required in their respective curricula.

Application forms for admission to the University of Vermont will be sent upon request. Since the number of rooming accommodations available is limited, it is wise for a candidate for admission to submit his application and credentials as early as possible, at any time after the first of

\* For admission to the College of Medicine, see pages 149-150.



February in the year in which admission is sought. Soon after that time tentative admission may be granted. Inquiries should be directed to Heath K. Riggs, Director of Admissions, Waterman Building, University of Vermont, Burlington, Vermont.

#### COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences recommends that candidates for admission complete the following secondary school courses: English (4 years), Ancient or Modern Foreign Language (2 years), Elementary Algebra, Plane Geometry, History, and Science.

Graduation from secondary school normally implies the completion of at least fifteen units of work, and this is regarded as the usual requirement for entrance. Eight and a half or nine units are suggested above. Candidates for admission are advised to choose additional units as far as possible in the fields of language, mathematics, and history.

#### COLLEGE OF ENGINEERING

The College of Engineering recommends that candidates for admission complete the following secondary school courses: English (4 years), Algebra (Elementary and Intermediate), Plane Geometry, Solid Geometry, History, and Science.

In addition to the eight or eight and a half units listed above the candidate is advised to choose the remaining units as far as possible in the fields of Language, Mathematics, History, and Science.

Superior students may be accepted without Intermediate Algebra or Solid Geometry, or both, but must enroll in a special course, the fee for which is ten dollars.

#### COLLEGE OF AGRICULTURE

Courses considered especially desirable for prospective students in Agriculture are: English (4 years), Elementary Algebra, Plane Geometry, and Science (2 years). History and a third year of Mathematics are also desirable.

Courses considered especially desirable for prospective students in Home Economics are: English (4 years), Foreign Language (2 years of one language), Elementary Algebra, Plane Geometry, History, and Science (2 years). A third year of Mathematics and two additional years of a foreign language are also desirable.

#### ELEMENTARY EDUCATION CURRICULUM

For admission to this curriculum, see pp. 80-85.

## SPECIAL AND UNCLASSIFIED STUDENTS

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

The Matriculation Fee is \$5.00 and it is payable by all who have not previously been enrolled in the regular session.

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

## PRELIMINARY REGISTRATION PROGRAM

The three days immediately preceding the opening of class work are devoted to certain preliminary events designed to facilitate the adjustment of freshmen to conditions of life and study at college. The full schedule of events is given in a special circular, "*Program of Preliminary Freshman Days*," which is sent to all prospective freshmen by the Registrar.

All new students are given a scholastic aptitude test at the opening of the college year. Freshmen also take an English placement test. The scores are used in advising students regarding the course of study to pursue, and vocational plans. Personal data report, physical examination, and registration photograph are also included in the program.

## ADMISSION TO ADVANCED STANDING

All applicants for admission who have attended another collegiate institution are required to file with the Admissions Office an official transcript of the college record together with a statement of honorable dismissal.

A student who transfers to the University from another accredited college or university may be given provisional credit by the Director of Admissions for all courses satisfactorily completed, provided that similar courses are counted toward graduation at the University of Vermont. Transfer credit is not allowed for work completed with grade "D" or its equivalent, unless a more advanced course in the same subject has been passed with a higher grade.

The credit is provisional, pending satisfactory completion of a quarter's work at the University. If the student is in good standing at the end of his first quarter, the transfer credits are fully granted. If, however, he is under warning, the departments concerned review the credits and report to the Committee of Admissions who then decide what credits will be allowed. No re-evaluation is permitted once the credits have been finally determined.

## ENROLLMENT

Every student is required to register and enroll on the designated days. All charges for the ensuing quarter must be paid, or otherwise provided for, before enrollment is completed. Directions for enrollment are published for each quarter.

After enrollment, no change of studies will be allowed except such as are authorized by the Dean of the college of the University in which the student is registered. After Saturday of the first full week of the quarter no enrollment or change of studies will be permitted.

## COLLEGE ENTRANCE EXAMINATIONS

The College Entrance Examination Board will administer series of tests on the following Saturdays, April 6, 1946, June 1, 1946, and September 7, 1946. On each of these days the following program of tests will be offered:

9:00 A. M.—Scholastic Aptitude Test (three hours).

9:00 A. M.—Comprehensive Mathematics Test (three hours).

2:00 P. M.—Achievement Tests (one hour each, not more than three may be taken): English Composition, Social Studies, French Reading, German Reading, Latin Reading, Spanish Reading, Biology, Chemistry, Physics, Spatial Relations.

Note that the schedule does not permit a candidate to take both the Scholastic Aptitude and the Comprehensive Mathematics Tests.

Blank application forms, a practice form of the Scholastic Aptitude Test, and a bulletin of information containing the rules for the filing of applications and the payment of fees, lists of examination centers, etc., may be obtained from the College Entrance Examination Board, P. O. Box 592, Princeton, N. J.

# Curricula and Courses of Instruction.

The University of Vermont and State Agricultural College offers a wide variety of curricula both professional and non-professional in its four colleges of Arts and Sciences, Agriculture, Engineering, and Medicine.

The College of Arts and Sciences provides a general and liberal four-year\* curriculum leading to the degree of **Bachelor of Arts** with opportunities for concentration in one or more of the following departments: Botany, Chemistry, Economics, English, Geology, German, Greek, History, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Romance Languages (French and Spanish), and Zoology.

Freedom of election in the College of Arts and Sciences is such that all the pre-professional requirements for admission to colleges of Medicine, Dentistry, Law, Theology, Nursing, or Medical Technology may be met.

Certain departments of the College of Arts and Sciences offer specialized curricula leading to professional competence and the degree of **Bachelor of Science**. These specialized curricula are Chemistry, Business, Secretarial Studies, Secondary Education, and Music Education.

The College of Engineering offers a four-year\* curriculum leading to the degree of **Bachelor of Science in Civil Engineering, Electrical Engineering, or Mechanical Engineering**.

The College of Agriculture offers a four-year curriculum leading to the degree of **Bachelor of Science in Agriculture** with specialization in one of the five fields of Teaching, Plant Industry, Dairy Production, Dairy Manufacturing, or Agricultural Economics. This college also offers a four-year curriculum leading to the degree of **Bachelor of Science in Home Economics** with the option of four specializations: Food and Nutrition, Clothing and Textiles, Teaching, and General Home Economics.

The College of Medicine offers a four-year curriculum leading to the degree of **Doctor of Medicine**.

\* Veterans may reduce somewhat the time required. See page 5.

The College of Arts and Sciences and the College of Medicine jointly offer a five-year curriculum leading to the degree of **Bachelor of Science in Nursing** and a four-year curriculum leading to the degree of **Bachelor of Science in Medical Technology**.

The University of Vermont and State Agricultural College in cooperation with the State Department of Education offers professional curricula in the fields of **Elementary Education** and **Industrial Education**, leading to the degree of **Bachelor of Education** and **Bachelor of Science in Education** respectively.

### NUMBERING AND DESCRIPTION OF COURSES

A separate number is used for each quarter course and for each quarter of a two- or three-quarter course. The form 1, 2, 3 indicates that the separate quarters may be taken independently for credit, while 1-2-3 indicates that they may not be so taken and unless otherwise stated must be taken in this sequence.

Courses numbered from 100 to 199 are advanced courses, normally open only to juniors and seniors; those numbered from 200 to 299 are for graduate students only.

The number of credit hours *per quarter* for each course is given in italics on the first line of the description, and is followed by initials indicating the quarter or quarters during which it is given in the usual academic year.

In certain departments, a form such as (1-2) immediately follows the course title. This indicates the number of class hours respectively of lecture or recitation and of laboratory for the course. Lecture and recitation periods are fifty minutes in length, laboratory periods at least two class hours or 110 minutes.

Courses are elective, unless otherwise stated, subject to the prerequisites indicated. Prerequisite courses are in the same subject as the courses for which they are required, unless otherwise designated. Rotating and alternating courses show the college year during which they are to be given.

## The College of Arts and Sciences

### OBJECTIVE

The College of Arts and Sciences aims to provide for young men and women the means and opportunity of fitting themselves intellectually, emotionally, and spiritually to play a responsible part in the world of thought and action.

It devotes itself to the inculcation of ideals and the cultivation of ideas. It seeks to encourage habits of clear, independent thinking and effective expression; to stimulate an appreciative understanding of the thought and achievement of man; to develop sound critical judgment and a spirit of tolerance; to arouse the intellectual curiosity which is the basis of continuing self-education.

Its fundamental purpose is to instill the courage and conviction to exemplify the enduring values of American democracy.

### THE LIBERAL ARTS CURRICULUM

The curriculum in Liberal Arts, leading to the degree of Bachelor of Arts, is designed to secure adequate training in language, particularly in English, as the mother tongue and the chief tool of thought and expression, and in certain other subjects essential to an understanding of the various fields of human knowledge; and to provide for further study and mastery of a chosen field of concentration.

Every candidate for this degree shall fulfill the requirements stated below, and present a total of 180 quarter hours of credit. For those required to take Military Science and Physical Education the total of credit hours shall be increased by the number of hours required in those subjects.

#### REQUIRED OF ALL STUDENTS:

1. English. English Composition the first year, unless exempted, and the second year either English Literature, American Literature, or Periodical Writing.

2. Foreign Language. One course of at least intermediate grade in French, German, Greek, Latin, or Spanish, to be completed as early as possible in the college career.

3. Science. One laboratory course, normally the first year, to be chosen from Botany, Chemistry, Geology, Physics, and Zoology.

4. Physical Education and Military Science. Two years of Physical Education for men and women, two years of Military Science for men.

5. **Field of Concentration.** Each student shall choose a field of concentration in consultation with his advisor, and complete in that field a minimum of six courses, totalling not less than fifty-four semester hours, at least half, but not all, to be taken in one subject. Each student shall take at least one course in his field of concentration in each quarter of his junior and senior years.

#### ADDITIONAL REQUIREMENTS FOR STUDENTS CONCENTRATING IN FIELDS IN THE FOLLOWING DIVISIONS:

1. \*Language and Literature, or Music: History (Ancient, Medieval, or Survey of Modern Europe) the first year; a second foreign language reaching the intermediate level; a second course in the Social Science division.

2. Social Science: History (Ancient, Medieval, or Survey of Modern Europe) the first year; during the first two years a total of two courses in different departments, chosen from the following: Economics, Philosophy, Political Science, and Psychology.

3. Science and Mathematics. Freshman Mathematics (11, 12, 13) and Calculus (21-22-23)† the first two years; Inorganic Chemistry† the first year and General Physics† the second year; a total of two courses in the divisions of Literature and Fine Arts (including Music) and of the Social Sciences.

#### PRE-PROFESSIONAL PREPARATION

Students who plan to enter professional colleges requiring previous collegiate preparation should register in the College of Arts and Sciences. The variety of courses offered and the freedom of election in that College is such that all the requirements for any professional school may be met. Many students will desire so to direct their four-year undergraduate course that in addition to a general and sound education appropriate pre-professional training is obtained for later work in the Medical Sciences, Law, or Theology.

#### MEDICAL SCIENCES (MEDICINE, DENTISTRY, NURSING, MEDICAL TECHNOLOGY)

The requirements for admission to an accepted medical college include as a rule three years of undergraduate work during which the following

\* It is strongly recommended by the respective departments that students who wish to choose modern foreign language as their field of concentration complete Intermediate Latin in college unless they presented four years of Latin for entrance. The English Department states that "students concentrating in English will be aided by courses in Latin, particularly if they intend to continue with graduate study."

† Students concentrating in Mathematics may omit Inorganic Chemistry. Those concentrating in Botany or Zoology may omit Calculus and may postpone Chemistry and Physics each one year, beginning their special subject the first year.



courses will be completed: English (two years), Foreign Language, College Mathematics, Inorganic Chemistry, Organic Chemistry, General Physics, and Biology. The requirements for admission to colleges of Dentistry vary, but in all cases include some of the work prescribed for admission to medical colleges and hence the course of study advised for the preparation for medicine may be used as a basis for selection by those interested in this field.

Students who wish to enter medical college are encouraged to take the four-year Liberal Arts Curriculum, selecting the subjects listed below under the three-year program and others to complete the requirements for the Bachelor of Arts degree.

Those who wish to meet the minimum requirements for admission to medical college follow the program below. This in combination with the first year in an approved medical college will lead to the degree of Bachelor of Science.

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
	F	W	S		F	W	S
	QUARTER				QUARTER		
English Composition .....	3	3	3	Sophomore English Elective.....	3	3	3
Foreign Language .....	3	3	3	Foreign Language or			
Freshman Mathematics .....	3	3	3	Elective .....	3	3	3
Inorganic Chemistry .....	5	5	5	Elementary Botany .....	4	4	...
Elementary Zoology .....	4	4	...	Microtechnique .....	...	...	4
Embryology or Comp. Anat. ....	...	...	4	Qual. and Quant. Analysis.....	4	4	4
Physical Education .....	1	1	1	General Psychology .....	3	3	3
Military Science (Men).....	2	2	2	Physical Education .....	1	1	1
Hygiene (Women) .....	...	...	...	Military Science (Men) .....	2	2	2
THE JUNIOR YEAR					F	W	S
					QUARTER		
Organic Chemistry .....					4	4	4
General Physics .....					5	5	5
Electives .....				at least	6	6	6

At the University of Vermont and State Agricultural College particular attention is paid to the guidance of students intending to study medicine. At the end of the freshman year such students are invited to appear before an advisory committee composed of representatives of the College of Arts and Sciences and of the College of Medicine who will discuss with them their competence to continue their pre-medical preparation and their choice of courses. Students will likewise be invited to confer with the committee at the end of their sophomore year, at which time final plans can be laid for the balance of the student's undergraduate program.

#### LAW

American law schools, as a rule, require graduation from a four-year college with a Bachelor's degree prior to admission. There is no prescribed curriculum which is an absolute requisite for admission, but the student is

advised to include in his undergraduate course substantial elections in the field of Languages, Literature, History, Economics, Political Science, and Philosophy.

#### THEOLOGY

Graduation from a four-year college is rapidly becoming prerequisite for admission to most theological seminaries. Although no prescribed curriculum is demanded as preparation for such professional schools, the student is advised to elect substantially from the departments of Languages, particularly Classics, History, Philosophy, Psychology, and Social Studies.

#### THE NURSING CURRICULUM

The University offers in its Department of Nursing a five-year program, designed to provide a general college education together with the professional training for nursing. On completion of the program the student receives the degree of Bachelor of Science and a diploma in Nursing and is eligible to take the State examinations for qualification as a registered nurse.

The first two years are spent in the University. Following each of these years there is a summer quarter of eleven weeks, during which the student has an introduction to the nursing arts, with supervised practice in the Mary Fletcher Hospital.

The third and fourth years are spent in hospitals which are cooperating with the University in providing clinical instruction and nursing experience. During these years there are in general six hours a day for professional work in hospitals and two hours a day for class work.

The fifth year is spent in the University, with further study in academic and professional subjects. Part of this time will be spent in supervised experience in the field of public health, with electives in the hospital schools of nursing.

Admission requirements for the Curriculum in Nursing are the same as those for other curricula.

Following is an outline of the course of study:

#### FIRST YEAR

	F	W	S		
	QUARTER			1ST SUMMER QUARTER	HOURS
English Composition .....	3	3	3	Anatomy & Physiology .....	6
General Botany & Zoology.....	4	4	4	Chemistry of Nursing .....	3
History or American Govt.....	3	3	3	Nursing Arts .....	6
General Chemistry .....	5	5	...	Nursing Orientation .....	3
Nursing Arts .....	...	...	6		
*Elective .....	3	3	3		
Physical Education .....	1	1	1		
Hygiene .....	...	...	...		

\* Mathematics or language recommended.

## SECOND YEAR

	F	W	S
	QUARTER		
English .....	3	3	3
General Psychology .....	3	3	3
Physics .....	5	5	...
Physiology .....	3	...	...
Chemistry of Foods, Diet .....	...	...	3
Electives to complete schedule ..	...	...	...

## 2ND SUMMER QUARTER

Introduction to Medical Science, Bacteriology, and Clinical Pathology .....	6
Pharmacology .....	3
Professional Ethics .....	1
Advanced Nursing Arts .....	6

## THIRD YEAR

Gynecology
Materia Medica
Dietotherapy
Sociology
Medical and Surgical Nursing

## FOURTH YEAR

Obstetrics
Pediatrics
Psychiatry
Sanitation
Communicable Diseases

## FIFTH YEAR

Courses of study may include: Philosophy, Economics, Principles of Education, Family Relations, Child Psychology, Abnormal Psychology, Introduction to Community Health, Ward Administration, Practice Teaching, Professional Adjustments of the Graduate Nurse, Modern Trends in Nursing Education. Field experience will be offered as Assistant Head Nurse, Assistant Instructor, or Junior Public Health Worker.

## PROGRAMS FOR GRADUATE NURSES

The University also offers three programs for nurses who meet the entrance requirements of the University and who are graduates of accredited Schools of Nursing. Each program leads to the Bachelor of Science degree, with specialization in one of the following areas: Teaching Nursing Arts, Teaching a Basic Science, and Ward Management and Clinical Instruction. In each of these areas one-year modified programs are also given, designed to meet the immediate needs for better prepared faculties in Schools of Nursing.

Students who are eligible for admission receive approximately one year of academic credit for the work already taken in the School of Nursing. As candidates for the degree, they are required to complete in the University the following: English, 18 hours; History, 9 hours; Zoology, 12 hours; Psychology, 9 hours; Education, 12 hours; Chemistry, 15 hours; Sociology, 6 hours; and the professional courses.

All three programs include the following professional courses: Foundations of Nursing, Trends in Nursing Education, Teaching in Schools of Nursing, and Survey of Public Health Nursing. In addition, students who wish to prepare for teaching Nursing Arts are expected to carry the

following courses: Evaluation and Reconstruction of Nursing Arts, Comparative Nursing, Ward Management, Ward Teaching and supervised field experience in teaching Nursing Arts. Students preparing to teach a basic science carry additional science courses. Students who wish to prepare for positions as supervisors, head nurses, and clinical instructors are expected to take courses in Ward Management and Clinical Teaching. All students are required to complete 6 credit hours of experience in their field of concentration.

### THE MEDICAL TECHNOLOGY CURRICULUM

This curriculum involves three years of work in the College of Arts and Sciences and twelve full months of technical training at a local hospital under the supervision of the College of Medicine. On satisfactory completion of the program the student receives the degree of Bachelor of Science in Medical Technology and is eligible to take the examination of the Registry of Medical Technologists. Completion of the first two years satisfies the minimum requirements of the Registry for admission to the year of technical training.

The outline of courses is the same as that for the three-year premedical program\*, with the omission of Comparative Anatomy. Organic Chemistry is recommended by the Registry, but not required. The University committee in charge of the curriculum *highly recommend* the election in the third year of one quarter of Filing (F) and two quarters of Business Correspondence (F, W), and consider some training in Typing, either in high school or during the summer, as desirable.

### THE ECONOMICS CURRICULA

The Department of Economics offers specialized curricula, namely, Business, Secretarial Studies, and Commercial Teaching, each leading to the degree of Bachelor of Science in Commerce and Economics. An advisor from the Economics faculty will assist students enrolled in these curricula in building programs to meet their individual needs and plans.

The Business Curriculum is recommended for those who are preparing for a business career. It is intended to provide sound basic training in the various phases of business activity. Its several options enable students to emphasize such specialized studies as accounting, banking and finance, government service, personnel and production management, sales management, pre-legal training.

\* See page 72.

The Secretarial Curriculum is designed for those who are preparing for secretarial and executive positions in business and professional offices. It provides not only the necessary professional training, but also a broad liberal background.

The Commercial Teaching Curriculum is recommended for those who are preparing to teach business subjects in secondary schools. It includes, in addition to the technical business and general background subjects, the professional education courses required for certification.

**REQUIREMENTS.** The minimum requirement in the Department of Economics for the Business Curriculum is 69 quarter hours of Economics, out of a total of 180 required for graduation; for the Secretarial Curriculum, 132 hours, out of a total of 240 for graduation; and for the Commercial Teaching Curriculum, 137 hours, out of a total of 240 for graduation.

**SPECIAL TUITION FEES.** In addition to the regular student fees, those enrolled in the Secretarial or the Commercial Teaching Curriculum are charged an extra fee of \$11.00 per quarter for the use of office machines and equipment.

The normal program for the first two years in all three specialized curricula is as follows:

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
QUARTER				QUARTER			
English Composition .....	3	3	3	Sophomore English Elective.....	3	3	3
Mathematics of Finance .....	3	3	3	Economic Principles .....	3	3	3
Economic Geography .....	3	3	3	Accounting .....	3	3	3
American Government .....	3	3	3	*Foreign Language .....	3	3	3
Foreign Language .....	3	3	3	†Economic History .....	3	3	3
‡Filing .....	3	3	...	‡General Psychology .....	3	3	3
‡Business Organization .....	...	...	3	‡Business Correspondence .....	3	3	3
Physical Education .....	1	1	1	Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2	Military Science (Men) .....	2	2	2

\* Students who have met the foreign language requirement take Statistics and Business Law. Others take these subjects in the junior year.

† Required in Business Curriculum, not in Secretarial and Commercial Teaching.

‡ Required in Secretarial and Commercial Teaching only.

During the junior and senior years, students in the Business Curriculum, choose combinations of courses suited to their particular interests, both specialized courses in Economics and appropriate general or specialized courses in other fields. Further information may be secured from the department.

The normal program for the last two years of the Secretarial and Commercial Teaching Curricula is as follows:

## THE JUNIOR YEAR

F W S  
QUARTER

Money and Banking .....	3	3	...
International Econ. Problems .....	...	3	...
History of Modern Europe .....	3	3	3
Elementary Shorthand .....	5	5	5
Elementary Typewriting .....	5	5	5
*Economics of Labor .....	3	3	...
*Corporation Finance .....	...	3	3
*Electives .....	3	...	3
†Advanced Accounting .....	3	3	3
†Principles of Education .....	3	...	...
†Adolescent Psychology .....	...	...	3
†Principles of Business Ed. ....	...	3	...

\* Secretarial only.

† Commercial Teaching only.

## THE SENIOR YEAR

F W S  
QUARTER

Secretarial Science .....	...	3	3
Office Management .....	3	...	...
Advanced Shorthand .....	5	5	5
Advanced Typewriting .....	5	5	5
*Advanced English Elective .....	3	3	3
†Meth. of Teaching Bus. Subj. 3	...	...	...
†Practice Teaching .....	...	3	3
Electives to complete schedule ..	...	...	...

## THE CHEMISTRY CURRICULUM

The department of Chemistry offers a specialized curriculum leading to the professional degree of Bachelor of Science in Chemistry. This curriculum is designed to give a sound basic training in Chemistry, to prepare the student for service in some branch of the chemical profession, and to qualify him adequately for advanced study in graduate school.

The department is accredited by the Committee on the Professional Training of Chemists of the American Chemical Society, and the curriculum conforms to its recommendations. Graduates are accredited by the Society, and are engaged as teachers of Chemistry, as industrial chemists, and in various capacities in businesses based on Chemical Science.

In the first year and, to some degree, in the second year, prescribed courses are such that it is possible for a student to transfer into the curriculum from the Liberal Arts Curriculum, or to transfer from the Chemistry Curriculum into the Liberal Arts Curriculum, concentrating in one of the Physical Sciences.

In addition to undergraduate courses, the facilities of the Department permit graduate work leading to the degree of Master of Science.

Below are listed the courses of study included in the Chemistry curriculum:

## THE FRESHMAN YEAR

F W S  
QUARTER

General Chemistry .....	5	5	5
English Composition .....	3	3	3
Algebra, Trig., Anal. Geom. ....	5	4	5
Elementary German .....	3	3	3
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2

## THE SOPHOMORE YEAR

F W S  
QUARTER

Qual. & Quant. Analysis .....	4	4	4
English .....	3	3	3
Calculus .....	3	3	3
General Physics .....	5	5	5
Intermediate German .....	3	3	3
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2

## THE JUNIOR YEAR

	F	W	S
	QUARTER		
Physical Chemistry .....	5	5	5
Organic Chemistry .....	4	4	4
Advanced Quant. Analysis.....	3	3	3
Advanced Physics .....	3	3	3
Elective (non-laboratory) .....	3	3	...

## THE SENIOR YEAR

	F	W	S
	QUARTER		
History of Chemistry.....	3	...	...
Qual. Organic Analysis.....	...	5	...
Advanced Organic .....	3	3	3
Advanced Organic Laboratory	5	...	...
Adv. Physical & Inorganic .....	3	3	3
Research .....	...	4	5
Seminar .....	...	...	3
Elective (non-laboratory) .....	3	3	3

## THE EDUCATION CURRICULA

## THE SECONDARY EDUCATION CURRICULUM

The Department of Education offers a four-year curriculum leading to the degree of Bachelor of Science in Education for the preparation of teachers in the junior and senior high school.

Students who have satisfied the requirements of the freshman and sophomore years in the College of Arts and Sciences may be allowed to transfer to junior standing in this curriculum. Students desiring to make this transfer must present a written request to the Chairman of the Department which must be approved by the Dean of the College of Arts. Transfer will be permitted only in exceptional cases from the Colleges of Engineering and Agriculture and from the specialized curricula in the College of Arts and Sciences.

Students who plan to enter the profession of teaching should consult both the Chairman of the Department of Education and the Dean of the College at the earliest possible moment with reference to the selection of courses. The following outline gives a typical distribution of the courses normally required of all candidates for the degree of Bachelor of Science in Education.

## THE FRESHMAN YEAR

	F	W	S
	QUARTER		
English Composition .....	3	3	3
Foreign Language .....	3	3	3
History or Political Science.....	3	3	3
Laboratory Science .....	4	4	4
Approved Elective .....	3	3	3
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2

## THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Sophomore English .....	3	3	3
Foreign Language .....	3	3	3
General Psychology .....	3	3	...
Gen. Psych. or Adol. Psych.....	...	...	3
Approved Electives .....	6	6	6
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2

THE JUNIOR YEAR	F	W	S	THE SENIOR YEAR	F	W	S
	QUARTER				QUARTER		
Prin. & Phil. of Education .....	3	3	3	Sec. Meth. and Stud. Tchg.....	3	3	3
History of Education .....	3	..	..	English Elective .....	3	3	3
High School Admin. or				Approved Electives .....	9	9	9
Education Elective .....	..	3	3				
English Elective .....	3	3	3				
Approved Electives .....	6	6	6				

Candidates for the degree must also complete two teaching majors and one minor, or one major and two minors, chosen from departments of the College of Arts and Sciences, so selected as to correlate with the subjects generally taught in the high schools. The recommended subject-matter fields are: English, Foreign Languages (particularly French and Latin), Mathematics, History, Social Studies, Biological Sciences, Physical Sciences.

The University offers special curricula for those preparing to teach Agriculture, Home Economics, Commercial Subjects, and Music. Teachers of these special subjects frequently find it advisable to prepare to teach also a more general subject.

While curricula in Education are designed primarily to meet the requirements for certification in the State of Vermont, it is possible to meet the requirements of other states if the program is properly planned under the direction of the Department of Education at an early date.

## THE MUSIC EDUCATION CURRICULUM

The University of Vermont and State Agricultural College offers this four-year curriculum in Music Education leading to the degree of Bachelor of Science in Music Education. It is recommended to students who have sufficient training and natural musical ability to justify a career in music. Graduates are qualified for positions as instructors and supervisors of music in the public school of Vermont. The curriculum may be adapted to meet requirements elsewhere.

Students must pass the aptitude tests given by the Department of Music and must satisfy the general admission requirements for the College of Arts and Sciences.

This curriculum is designed to prepare qualified teachers for positions as instructors and supervisors of music.



## THE FRESHMAN YEAR

	F	W	S
	QUARTER		
Survey of Musical Literature	3	3	3
Elementary Sight-Singing	2	2	2
Applied Music (two courses)	2-3	2-3	2-3
English Composition	3	3	3
Elementary German	3	3	3
Elementary Physics	3	3	3
Choir or Orchestra	1	1	1
Physical Education	1	1	1
Military Science (Men)	2	2	2

## THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Elementary Harmony	3	3	3
Advanced Sight-Singing	2	2	2
Applied Music (two courses)	2-3	2-3	2-3
Sophomore English Elective	3	3	3
Intermediate German	3	3	3
General Psychology	3	3	3
Choir or Orchestra	1	1	1
Physical Education	1	1	1
Military Science (Men)	2	2	2

## THE JUNIOR YEAR

	F	W	S
	QUARTER		
Advanced Harmony	3	3	3
Methods & Practice Teaching	3	3	3
Applied Music (two courses)	2-3	2-3	2-3
Greek Art; European Painting	3	3	3
Education, Prin. & Phil.	3	3	3
Choir or Orchestra	1	1	1

## THE SENIOR YEAR

	F	W	S
	QUARTER		
Orchestration and Conducting	3	3	3
Sec. Meth. & Prac. Teaching	3	3	3
Applied Music Methods	1	1	1
History of Music	3	3	3
Applied Music (two courses)	2-3	2-3	2-3
Elementary Italian	3	3	3
Choir or Orchestra	0	0	0

## 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 University Council.

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 for the supplementary majors desired.

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 study in this curriculum. In such cases a special two-year enrollment is required and the sequences must be carefully planned in consultation with the Chairman of the Department of Education.

A student who transfers from this curriculum to another in the University will receive credit for work done, varying with the curriculum to which he transfers.

## ADMISSION

Graduates of secondary schools who wish to enter the curriculum in Elementary Education should obtain application forms from the Director of Admissions at the University of Vermont. When these have been returned to the University, a transcript of record will be obtained from the secondary school for use as one of the bases of action on the application.

The recommendation of the principal and the approval of a representative of the University, resulting from a personal interview, will be required.

Students who are to be admitted to this curriculum will be chosen on evidence of ability and aptitude for becoming efficient teachers. Admission will be granted on the basis of:

1. Health and physical fitness.
2. Probable ability to do college work.
3. Personality and character.
4. Special aptitude for teaching.

## HEALTH REQUIREMENTS

A certificate of good health and physical fitness from a practicing physician must be furnished by each applicant upon a blank furnished by the State Department of Education. In addition, a physical examination is required of the applicant by the University.

## PROBABLE ABILITY TO DO COLLEGE WORK

This is determined by means of a transcript of the student's scholastic record in the secondary school and the recommendation of the principal.

In addition, tests of scholastic aptitude and of achievement in English are given at the University of Vermont.

#### CHARACTER AND PERSONALITY REQUIREMENTS

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

(1) Honesty, (2) Reliability, (3) Consideration for others, (4) Acceptance of responsibility, (5) Loyalty, (6) Good judgment, (7) Adaptability, (8) Poise, (9) Dignity, (10) Forcefulness, (11) Refinement, (12) Leadership, (13) Cooperation, (14) General personality, (15) Good citizenship, (16) Social maturity.

#### APTITUDE FOR TEACHING

The recommendation of the principal of the high school which the applicant attended, the opinions of instructors, and psychological and achievement tests will receive consideration in judging aptitude for teaching. The character and efficiency of the student's work will be considered each year and recommendations regarding further study will be made upon the basis of the student's record.

#### ADMISSION TO ADVANCED STANDING

Candidates who apply for advanced standing will be admitted on the basis of a transcript of college work done elsewhere and the recommendation of the institution where work has been completed. No course work will be approved for transfer of credit which carries a grade of less than C or 72 per cent.

Candidates who hold a diploma from an approved high school and have completed a year of professional study as the fourth year of their high school course, may have the options of (a) entering as freshmen or (b) completing their high school credits for graduation by the substitution of satisfactory courses to replace their professional study as high school seniors. Then the professional study which they completed during the senior year in high school may be allowed toward advanced standing in the curriculum in Elementary Education.

#### TRANSFER OF STUDENTS WHO HAVE COMPLETED TWO YEARS OF A NORMAL SCHOOL COURSE

Students who have completed satisfactorily two years of study in a state normal school may transfer with full credit to the second or third

year of the curriculum in Elementary Education with the unqualified recommendation of the principal of the normal school, the approval of the State Department of Education, and of the Director of Admissions at the University of Vermont.

## TRANSFER OF STUDENTS WHO HAVE COMPLETED THREE YEARS OF A NORMAL SCHOOL COURSE

Students who have completed three years of study in a State Normal School may be admitted to the fourth year of the curriculum in Elementary Education.

Their admission will be conditioned upon a transcript of their record from the Normal School, the recommendations of the principal and the State Department of Education, and the passing of appropriate performance tests showing ability to do satisfactory work of senior grade. Unless waived by reason of teaching experience, the student will be asked to take courses in the summer session totaling not less than six semester hours, chosen under the guidance of the Chairman of the Department of Education. Thirty-six semester hours of credit, chosen under the guidance of the Chairman of the Department of Education, will be required to complete the curriculum in Elementary Education.

## TRANSFER OF NORMAL SCHOOL STUDENTS TO THE CURRICULUM IN SECONDARY EDUCATION

Students who have completed two years of study in a State Normal School may transfer to the curriculum in Secondary Education. Their admission will be dependent upon their scholastic attainment in the Normal School, the recommendations of the principal of the Normal School and the State Department of Education, and the passing of special examinations in English and Mathematics.

To become eligible for the degree Bachelor of Science in Education, students must complete at least 72 semester hours, or 108 quarter hours, of course work, chosen under the guidance of the Chairman of the Department of Education.

## TUITION

### FOR VERMONT STUDENTS

Exemption from tuition payment is granted to qualified Vermont students who sign, on a form prescribed by the State Department of Education, a declaration of intention to teach in Vermont for as long a time as that for which tuition is provided.

## FOR STUDENTS FROM OTHER STATES

Students from other states who meet the entrance requirements and who express in writing a positive intention of teaching in Vermont following the completion of their course, and sign the agreement form required by the State Department of Education making them liable for tuition payment upon failure to fulfill the teaching agreement, may be admitted into the curriculum in Elementary Education on the same tuition basis as Vermont students.

## FOR STUDENTS WHO DO NOT PLAN TO TEACH IN VERMONT

Students who are properly qualified for admission but do not plan to teach in Vermont may be accepted in this curriculum at the regular tuition rate of the University of Vermont.

## OUTLINE OF A TYPICAL ENROLLMENT IN THE ELEMENTARY EDUCATION CURRICULUM

## THE FRESHMAN YEAR

	F	W	S
QUARTER			
English Composition .....	3	3	3
Introduction to Education .....	3	3	3
Economic Geography .....	3	3	3
Handwriting .....	1	1	1
Art Education .....	2	2	2
Elective (American Government, Music Appreciation, Science, or others approved) .....	3	3	3
Physical Education .....	1	1	1
Hygiene .....	...	...	...
Military Science (Men) .....	2	2	2

## THE SOPHOMORE YEAR

	F	W	S
QUARTER			
Sophomore English .....	3	3	3
Teaching English .....	3	3	3
Music Fundamentals .....	3	3	3
General Psychology .....	3	3	3
Science .....	4	4	4
Mental Hygiene or Arts & Crafts or Elective .....	3	3	3
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2

## THE JUNIOR YEAR

	F	W	S
QUARTER			
English Elective .....	3	3	3
American History .....	3	3	3
Teaching Arithmetic .....	...	...	3
Teaching Reading .....	3	3	...
Teaching Music .....	3	3	3
Teaching Social Studies and Science .....	3	3	3
Health Education .....	...	2	2
Elective .....	3	...	...

## THE SENIOR YEAR

	F	W	S
QUARTER			
English Elective .....	3	3	3
Teaching Art .....	3	...	...
Physical Education Meth. ....	1	1	1
Curriculum and Stud. Tch. ....	6	6	6
Philosophy of Education .....	...	3	3
Elective .....	3	3	3

The above curriculum must be rearranged for students who wish to complete certification requirements in less than four years.

## THE JUNIOR HIGH SCHOOL CURRICULUM

The Junior High School Curriculum is offered by the University in co-operation with the Vermont State Board of Education. It is intended to prepare teachers for the upper grades of the elementary school and for the Junior High School.

The conditions regarding admission and tuition which are stated in the section above entitled The Elementary Education Curriculum apply to students who are accepted in the Junior High School curriculum.

The degree Bachelor of Science in Education, is awarded by the University of Vermont and State Agricultural College on recommendation of the Chairman of the Department of Education and the University Senate.

## OUTLINE OF A TYPICAL ENROLLMENT IN THE JUNIOR HIGH SCHOOL CURRICULUM

## THE FRESHMAN YEAR

F W S  
QUARTER

English Composition .....	3	3	3
Mathematics 1-2 .....	3	3	...
Jr. High School Math. ....	...	...	3
Introductory Physics .....	3	3	3
Economic Geography .....	3	3	3
Educational Survey .....	1	1	1
Approved Elective .....	3	3	3
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2
Hygiene (Women) .....	...	...	...

## THE SOPHOMORE YEAR

F W S  
QUARTER

Sophomore English .....	3	3	3
Elementary Botany .....	4	4	...
Introductory Zoology .....	...	...	4
American History .....	3	3	3
General Psychology .....	3	3	...
Adolescent Psychology .....	...	...	3
Approved Elective .....	3	3	3
Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2

## THE JUNIOR YEAR

F W S  
QUARTER

English or Intermediate Foreign Language .....	3	3	3
Principles of Education .....	3	...	...
Guidance .....	...	3	3
American Government .....	3	3	3
Teaching Jr. H. S. Subjects .....	3	3	3
Approved Elective .....	3	3	3
Observation and Conference .....	1	1	1
Health .....	...	...	...

## THE SENIOR YEAR

F W S  
QUARTER

Organization and Management of Jr. H. S. ....	3	...	...
Observation, Participation, and Teaching .....	3	3	3
Philosophy of Education .....	...	3	3
Economic Geography .....	3	3	...
Vermont History .....	...	...	3
Physical Education .....	1	1	1
Approved Electives .....	6	6	6

## COURSES OF INSTRUCTION

## ART

*Mr. Colburn and Mrs. Mills; Professors Kidder and Prindle*

## HISTORY OF ART

## 1. GREEK ART.

*Three hours. F*

The history of art in Greek lands through the Greco-Roman period, with emphasis on sculpture and architecture and some attention to vase-painting. The aim is to help the student understand the meaning of art and appreciate some of the masterpieces.

*Prerequisite:* sophomore standing.

*Mr. Kidder*

## 2-3 EUROPEAN PAINTING.

*Three hours. W, S*

The works of important European painters from 1400 to 1825, and the broader features of the historical background. Among the topics are museums and their functions, and the ways in which paintings are reproduced for study or for enjoyment in the home.

*Prerequisite:* sophomore standing.

*Mr. Prindle*

## 4-5-6 MODERN ART.

*Two hours. F, W, S*

To familiarize students with contemporary works of art and to give them standards whereby they may judge the quality of any work of art.

*Prerequisite:* sophomore standing.

*Mrs. Mills*

## ARTS AND CRAFTS

## 11-12-13 ARTS AND CRAFTS.

*\*Two hours. F, W, S*

Problems in functional design using the block print, stencil, and other techniques to develop good taste and creative ability. Studio fee \$1.00 per quarter (for two quarters only).

*Prerequisite:* sophomore standing.

*Mrs. Mills*

## DRAWING AND PAINTING

## 21-22-23 DRAWING AND PAINTING.

*†Two or three hours. F, W, S*

Composition and painting techniques, with emphasis on a clearer understanding of modern schools of painting and on individual development. Studio fee \$1.50 for two hours credit, \$2.00 for three.

*Mr. Colburn*

\* Credit is allowed only if this course is preceded or accompanied by a year course in the History of Art.

† This course may not be taken for credit by freshmen. Others may take it for credit once or twice, and in exceptional cases a third time by permission of the instructor and the Committee on Studies.

## ART EDUCATION

For courses in Art Education, see the index.

## BOTANY

For courses in Botany, see the College of Agriculture.

## \*CHEMISTRY

*Professor Braun; Assistant Professors Bloom, †Crooks, Little, and Smith; Miss Constance L. Brown, Mr. Lucarini, and Dr. Quinlan.*

1-2-3 GENERAL CHEMISTRY. (3-4) *Five hours. F, W, S*

Lectures with demonstrations, recitations, and laboratory, including general experiments and elementary qualitative analysis. Fee \$3.50 per quarter.

*Prerequisite:* one year of high school mathematics. *The Staff*

6 OUTLINES OF ORGANIC CHEMISTRY. (4-4) *Six hours. S*

Introduction to the basic facts and principles, primarily for students in Home Economics and Agriculture. Fee \$5.00.

*Prerequisite:* 1-2. *Mr. Bloom*

10 CHEMISTRY OF FOODS. (3-4) *Five hours. F*

General discussion of foodstuffs, with chemical analyses of milk, edible fats and oils, carbohydrate foods, proteins, and tests for preservatives and adulterants. Fee \$7.50.

*Prerequisite:* 6 or 101-102-103. *Mr. Little*

11 BIOCHEMISTRY. (3-4) *Five hours. W*

The elements of biochemistry, including chemistry of digestion and a study of bile and other digestive fluids. Qualitative and quantitative

\* Students in the Liberal Arts Curriculum concentrating in Chemistry, if they wish to be accredited by the American Chemical Society on graduation, should have their programs approved by the Chairman of the department early in their college course. A professional Chemistry Curriculum is also offered, which amply satisfies the requirements of the Society. For this, see the index.

In each laboratory course in Chemistry a deposit, varying in amount with the course, is required to cover anticipated breakage. Unused balances are refunded at the end of the course.

† Absent on leave: Military Service.



analyses of blood and urine, and determination of hydrogen ion concentration. Fee \$7.50.

*Prerequisite:* 6 or 101-102-103.

*Mr. Little*

20 SEMIMICRO QUALITATIVE ANALYSIS. (1-6) *Four hours. F*

Theory and practice of qualitative analysis by semimicro methods, including cation and anion analysis. Fee \$3.50.

*Prerequisite:* 1-2-3.

*Mr. Lucarini*

21-22 ELEMENTARY QUANTITATIVE ANALYSIS. (1-6) *Four hours. W, S*

Introduction to the theory and practice of quantitative procedures, including the simpler determinations by volumetric and gravimetric methods. Fee \$3.50 per quarter.

*Prerequisite:* 1-2-3.

*Mr. Lucarini*

101-102-103 ORGANIC CHEMISTRY. (3-3) *Four hours. F, W, S*

General introductory course designed for pre-medical students and those concentrating in the biological and physical sciences. Fee \$3.50 per quarter.

104-105-106 ADVANCED QUANTITATIVE ANALYSIS. (2-3)

*Three hours. F, W, S*

Lectures and laboratory, with class meetings for the discussion of methods. Fee \$3.50 per quarter.

*Prerequisite:* 20, 21-22.

*Mr. Smith*

107-108-109 PHYSICAL CHEMISTRY. (3-0) *Three hours. F, W, S*

Introduction to the kinetic theory and its applications to gases; thermodynamics and the application to liquids and solutions; chemical equilibria; fundamentals of electrochemistry and atomic structure.

*Prerequisite:* 1-2-3; Physics 11-12-13; Mathematics 21-22-23.

*Mr. Smith*

110-111-112 PHYSICAL CHEMISTRY LAB. (0-6). *Two hours. F, W, S*

Recommended to students who enroll in 107-108-109. Fee \$3.50 per quarter.

*Prerequisite:* credit or enrollment in 107-108-109.

*Mr. Smith*

121 HISTORY OF CHEMISTRY. (3-0) *Three hours. F*

A general survey, emphasizing the development of important theories.

*Prerequisite:* 20, 21-22; 101-102-103; 107-108-109.

134-135-136 ADVANCED PHYSICAL & INORGANIC. (3-0)

*Three hours. F, W, S*

Recent advances in inorganic chemistry, including some work in

catalysis and coordination compounds; thermodynamics and chemical kinetics.

*Prerequisite:* 101-102-103; 107-108-109; 110-111-112. *Mr. Smith*

137-138-139 ADVANCED ORGANIC (3-0) *Three hours. F, W, S*

Discussion of modern theories of organic chemistry and their applications. Current journals and books are used for reference.

*Prerequisite:* 101-102-103; 107-108-109. *Mr. Braun*

143 ADVANCED ORGANIC LABORATORY. *Five hours. F*

The preparation and general study of organic compounds, chosen to illustrate the major reactions used in organic synthesis. Reference to original literature is required. Fee \$5.00.

*Prerequisite:* 101-102-103; 110-111-112. *Mr. Braun*

144 QUALITATIVE ORGANIC ANALYSIS. *Five hours. W*

The characterization and identification of organic compounds, including compounds in mixtures, with emphasis on solubility relationships, class reactions, and the preparation of derivatives. Fee \$3.50.

*Prerequisite:* 101-102-103. *Messrs. Braun and Bloom*

191 SEMINAR. (3-0) *Three hours. S*

Student reports on current research papers appearing in English or German. Required of seniors in the Chemistry Curriculum. *The Staff*

198-199 THESIS RESEARCH. *Four hours, W; Five Hours, S*

The student elects a field for special study in inorganic, analytical, physical, or organic chemistry, works under the direction of a staff member, and submits his findings in written form, suitably bound, to the department to be filed. Fee \$5.00 per quarter. Required of seniors in the Chemistry Curriculum. *The Staff*

## CLASSICAL LANGUAGES

*Professors Prindle and Kidder; Assistant Professor Pooley*

### GREEK

1-2-3 ELEMENTARY GREEK. *Four hours. F, W, S*

For those who want a slight acquaintance with the language as well as for those who wish to continue the study of Greek. *Mr. Pooley*

4-5-6 PLATO AND HOMER. *Three hours. F, W, S*

Plato's *Apology* and selections from the *Iliad* and *Odyssey* of Homer. *Messrs. Pooley and Kidder*

*Prerequisite:* 1-2-3.

## 101-102-103 GREEK DRAMA.

*Three hours.* F, W, S

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.

*Prerequisite:* 4-5-6.

*Mr. Kidder*

For GREEK LITERATURE IN TRANSLATION, see General Literature 1, 2.

## LATIN

## 1-2-3 ELEMENTARY LATIN.

*Three hours.* F, W, S

Elements of the language, for those who present less than two years of entrance Latin. *Credit is allowed only if Latin 4-5-6 is also completed.*

## 4-5-6 INTERMEDIATE LATIN.

*Three hours.* F, W, S

Vocabulary, forms, and syntax, and readings from such authors as Caesar, Cicero, Ovid, and Virgil.

*Prerequisite:* 1-2-3, or two years of high school Latin.

## 7-8-9 LATIN PROSE AND POETRY.

*Three hours.* F, W, S

The works usually read are: selections from Livy or Cicero; Virgil, *Eclogues*; one play of Plautus or Terence.

*Prerequisite:* 4-5-6, or four years of high school Latin.

*Mr. Prindle*

## 31-32-33 ENGLISH WORDS.

*Three hours.* F, W, S

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.

*Prerequisite:* junior standing and some knowledge of Latin.

*Mr. Prindle*

## 101-102-103 HORACE, CATULLUS, PLINY.

*Three hours.* F, W, S

The works usually read are: Horace, *Odes* and *Epodes*; selections from the poems of Catullus and the letters of Pliny.

*Prerequisite:* 7-8-9.

*The Staff*

## 104-105 VIRGIL

*Three hours.* F, W

The entire *Aeneid* is read in the original or in translation. The poem is considered with reference to its structure, its literary qualities, and its position in the literature of Rome and of the world. (Offered 1945-46.)

*Prerequisite:* 101-102-103.

*Mr. Prindle*

- 106 TACITUS. *Three hours. S*  
Reading of selections and study of Tacitus as an historian and as a literary artist. (Offered 1946.)  
*Prerequisite:* 101-102-103.
- 107 CICERO. *Three hours. S*  
Selections from the *Orations*, the *Letters*, and the philosophical works are studied in detail. Attention is given to the position of Cicero in the political and literary history of his age. (Offered 1947.)  
*Prerequisite:* 101-102-103. *Mr. Pooley*
- 108 ROMAN ELEGY. *Three hours. W*  
Reading of selections from Tibullus, Ovid, and Propertius and consideration of the development of the elegy. (Offered 1947.)  
*Prerequisite:* 101-102-103. *Mr. Kidder*
110. OVID. *Three hours. F*  
Selections from the *Métamorphoses* are studied in detail. (Offered 1946.)  
*Prerequisite:* 101-102-103. *Mr. Prindle*
- 120 PROSE COMPOSITION. *Three hours. F*  
Required of those who wish to be recommended to teach Latin.  
*Prerequisite:* 101-102-103. *Mr. Pooley*
- For CLASSICAL MYTHOLOGY, see General Literature 4-5, 6.  
For LATIN LITERATURE IN TRANSLATION, see General Literature 3.  
For THE TEACHING OF LATIN, see Education 151-152.

## \*ECONOMICS

*Professor Lohman; Associate Professors Briggs, Nulty, and Woodard; Mrs. Maybury.*

- 1-2-3 ECONOMIC GEOGRAPHY. *Three hours. F, W, S*  
Geography as a basis for economic development; importance of materials, distribution, and transportation to national economies in war and peace. *Miss Woodard*

\* Students in the Liberal Arts curriculum who desire to concentrate in Economics are required to take courses in economics totalling at least thirty-six quarter hours. The courses to be taken will be determined in consultation with the departmental advisor on the basis of the student's individual needs and plans.

## 4, 5, 6 ECONOMIC HISTORY.

*Three hours. F, W, S*

4 England: the development of agriculture, commerce, industry, and finance.

5 The United States, 1791-1865

6 The United States since 1865.

*Miss Woodard*

## 7-8 STATISTICS.

*Three hours. F, W*

Introduction to the basic methods of statistical computation and the principles of statistical interpretation.

*Prerequisite:* sophomore standing.*Mr. Briggs*

## 10-11-12 PRINCIPLES OF ECONOMICS.

*Three hours. F, W, S*

Fundamental economic principles as an aid in understanding modern economic society.

*Prerequisite:* sophomore standing or approval of the department.*Mr. Lobman; Miss Woodward*

## 13-14-15 PRINCIPLES OF ACCOUNTING.

*Three hours. F, W, S*

An elementary course emphasizing the principles of accounting, with such practical work as is necessary to illustrate them.

*Prerequisite:* sophomore standing.*Mr. Briggs*

## 18 BUSINESS LAW.

*Three hours. S*

The general principles of business law as illustrated in typical business relations.

*Prerequisites:* sophomore standing.*Mr. Briggs*

## 18 MARKETING.

*Three hours. F*

Distribution channels, marketing institutions, and functions performed for producers and consumers.

*Prerequisite:* sophomore standing.*Mr. Briggs*

## 24 THE ECONOMICS OF CONSUMPTION.

*Three hours. S*

Consumption and consumers' choice; their relationship to the modern exchange economy; measurements of consumption; methods proposed for the increase and diversification of consumption.

*Prerequisite:* 10-11-12.

## 101-102 MONEY AND BANKING.

*Three hours. F, W*

The functions of money, credit, and banking in modern economic society. The theory of the value of money; the control of the money market; interrelationship of monetary and fiscal policies and their effects upon price movements; money and credit in the world economy.

*Prerequisite:* 10-11-12.*Mr. Lobman*

## 104-105 PUBLIC FINANCE AND TAXATION.

*Three hours. W, S*

The principles and problems of government spending, borrowing,

and taxing and their effects upon both the individual business unit and the economy as a whole.

*Prerequisite:* 10-11-12.

*Mr. Lobman*

106-107 CORPORATION FINANCE.

*Three hours. W, S*

A comparison of the various types of business enterprise and elaboration of the principles of financing business.

*Prerequisite:* 10-11-12; 13.

*Mr. Briggs*

111-112 LABOR ECONOMICS.

*Three hours. F, W*

Principles involved in the employer-employee relation; economics of wages, hours, unemployment, collective bargaining, and other major problems.

*Prerequisite:* 10-11-12.

113-114-115 ADVANCED ACCOUNTING.

*Three hours. F, W, S*

The principles and practice of advanced accounting.

*Prerequisite:* 13-14-15.

*Mr. Briggs*

116 AUDITING.

*Three hours. F*

The theory and practice of auditing. Types of audits, audit procedure, working papers, and reports.

*Prerequisite:* 113-114-115.

*Mr. Briggs*

117-118 COST ACCOUNTING.

*Three hours. W, S*

A thorough consideration of the basic principles of cost accounting and their practical application.

*Prerequisite:* 113-114-115.

*Mr. Briggs*

122-123 INDUSTRIAL MANAGEMENT.

*Three hours. F, W*

General nature, functions, and trends of organization and management in American industry.

*Prerequisite:* 10-11-12.

124 PERSONNEL MANAGEMENT.

*Three hours. S*

Principles governing the application of the human factor to capital, with especial emphasis upon selection, training, placement, and wage systems.

*Prerequisite:* 10-11-12.

125 TRANSPORTATION.

*Three hours. F*

Social and economic aspects of the transportation problem as revealed by an analysis of the nature, history, and problems of the various transportation agencies of the United States.

*Prerequisite:* 10-11-12; Political Science 1, 2, 3.

## 126 PUBLIC UTILITIES.

*Three hours. W*

The economic basis of public utility enterprise: its nature and scope, its development, legal organization, and problems.

*Prerequisite:* 10-11-12; Political Science 1, 2, 3.

## 127 GOVERNMENT CONTROL OF BUSINESS.

*Three hours. S*

Trade associations, price maintenance policies under state and federal enactments; the work and functions of state and federal regulatory bodies.

*Prerequisite:* 10-11-12; Political Science 1, 2, 3.

## 128 INTERNATIONAL ECONOMIC PROBLEMS.

*Three hours. S*

Important aspects of international cooperation and conflict in the economic sphere. The quest for foreign markets, raw materials, investment opportunities, and population outlets.

*Prerequisite:* 10-11-12.

*Mr. Lobman*

## 129-130 BUSINESS CYCLE THEORY.

*Three hours. W, S*

The economic cycle in the light of historical and statistical information. Theoretical analysis of causes of depression and prosperity.

*Prerequisite:* 7-8 and 10-11-12.

## 140-141 HISTORY OF ECONOMIC THOUGHT.

*Three hours. F, W*

The development of economic doctrines from classical antiquity, with discussions of the different schools.

*Prerequisite:* 10-11-12.

*Mr. Lobman*

## 142 MODERN ECONOMIC THOUGHT.

*Three hours. S*

A general survey of contemporary economic thought, including studies of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, A. C. Pigou, J. M. Keynes, and others.

*Prerequisite:* 140-141.

*Mr. Lobman*

## 153 SEMINAR.

*Three hours. S*

Designed for students concentrating in the department. Review of recent books and periodical literature; discussions of topics of contemporaneous interest; student reports based upon personal investigation.

*Prerequisite:* senior standing.

*Mr. Lobman*

\*ECONOMICS (*Secretarial*)

*Associate Professor Nulty; Mrs. Maybury*

52-53-54. ELEMENTARY SHORTHAND. *Five hours. F, W, S*  
Instruction in the fundamental principles of Gregg Shorthand. Dictation and transcription of business letters. *Miss Nulty*

55-56-57. ADVANCED SHORTHAND. *Five hours. F, W, S*  
Dictation covering a broad business vocabulary and a variety of literary and technical subject-matter. Emphasis on speed in taking dictation and in transcribing. *Miss Nulty*

58-59-60. ELEMENTARY TYPEWRITING. *Five hours. F, W, S*  
Instruction in the care of the typewriter; correct technique; mastery of the keyboard; practice in variety of forms of material. *Miss Nulty*

61-62-63. ADVANCED TYPEWRITING. *Five hours. F, W, S*  
Development of typing speed. Projects covering the different kinds of commercial typing. Transcription of shorthand notes. *Mrs. Maybury*

64-65. BUSINESS CORRESPONDENCE. *Three hours. F, W*  
Instruction and practice in writing business letters. *Mrs. Maybury*

66. BUSINESS CORRESPONDENCE. *Three hours. S*  
Instruction and practice in writing business reports. *Mrs. Maybury*

67. FILING. *Three hours. F*  
Methods of indexing and filing. Laboratory practice. *Mrs. Maybury*

68. FILING. *Three hours. F, W*  
Organization of filing systems and a businessman's library. Laboratory practice. *Mrs. Maybury*

69. BUSINESS ORGANIZATION. *Three hours. S*  
The organization of modern small business. *Mrs. Maybury*

70. OFFICE MANAGEMENT. *Three hours. F*  
The general principles of organization and management applied to the office. *Mrs. Maybury*

\* These courses are open only to students in the Secretarial and Commercial Teaching Curricula, except that students in Medical Technology may take 64-65 and 67.



## 71-72 SECRETARIAL SCIENCE.

*Three hours. W, S*

Instruction and practice in the duties performed by the secretary in the business office. Laboratory practice on office machines.

*Mrs. Maybury*

## 73 PRINCIPLES OF BUSINESS EDUCATION.

*Three hours. W*

Principles underlying the organization of high-school business curricula and the teaching of business subjects.

*Miss Nulty*

## 74 METHODS OF TEACHING BUSINESS SUBJECTS.

*Three hours. F*

The aims and content of business subjects offered in the junior and the senior high school, and the most effective methods of teaching these subjects.

*Miss Nulty*

## 75-76 OBSERVATION AND PRACTICE TEACHING.

*Three hours. W, S*

Directed observation and supervised practice in teaching business subjects in a junior or senior high school in or near Burlington. General conference once a week; individual conferences with supervisors and training teacher. Continuation of the study of special methods. Fee \$10.00.

*Miss Nulty*

## EDUCATION

*Professor Douglass; Assistant Professors Holbrook, Adams, Sullivan, Reid, Pappoutsakis; Mrs. Mills, Miss Madigan, Mr. Colburn.*

## \*SECONDARY EDUCATION

## 1 PRINCIPLES OF EDUCATION.

*Three hours. F*

The aims and underlying principles of American education; the organization of the public school system; enrollments; qualifications of teachers; school costs; the nature of the curriculum; principles of instruction.

*Prerequisite:* junior standing; Psychology 1-2.

*Mrs. Adams*

## 2 HISTORY OF EDUCATION.

*Three hours. F*

The historical development of educational theory and practice as

\* Students who are preparing to teach in secondary schools are referred to the following specialized courses which are offered in other departments: Agricultural Education; Methods in Business Education; Advanced English Composition; French Conversation and Composition; German Composition and Conversation; Home Economics Education; Latin Composition and Methods; Teaching Mathematics; Music Methods; Spanish Conversation and Composition. For the curriculum in Secondary Education refer to the Index.

influenced by the foremost educational theorists and by the most significant social movements.

*Prerequisite:* junior standing

Mr. Douglass

7-8 EDUCATIONAL PSYCHOLOGY.

*Three hours.* F, W

The application of psychological principles and the results of experiments and investigations to the instructional process; the influence of heredity, growth, learning, and the physical and social environments upon the individual; the measurement of intelligence and achievement.

*Prerequisite:* junior standing; Psychology 1-2.

Mr. Douglass

9 PSYCHOLOGY OF ADOLESCENCE.

*Three hours.* S

The growth of youth from the close of childhood to the threshold of adulthood; the physical, emotional, social, moral, and intellectual development of boys and girls.

*Prerequisite:* sophomore standing; Psychology 1-2.

Miss Holbrook

101-102 PHILOSOPHY OF EDUCATION.

*Three hours.* W, S

Educational theory based upon psychological principles and present day social needs; the relationships of education to social welfare and the demands made upon education by a modern democratic society.

*Prerequisite:* junior standing; one course in Education.

Mr. Douglass

103-104 HIGH SCHOOL ADMINISTRATION.

*Three hours.* W, S

The objectives, administration, and supervision of the secondary school with particular reference to professional relationships; pupil guidance; curricular and extra-curricular activities.

*Prerequisite:* junior standing.

Mr. Douglass

107-108-109 PRINCIPLES AND PROCEDURES.

*Three hours.* F, W, S

General methods of secondary school instruction and special methods in the student's proposed teaching field; problems of classroom management, pupil diagnosis, and guidance; observation, participation and directed student teaching in Junior or Senior High School in or near Burlington; supervision of student teaching by the training teacher, the course instructor and the school principal. Practice fee \$10.00

*Prerequisite:* satisfactory credit in Education 1; senior standing; approval by the Department of Education and by the department in which the student is specializing.

Mr. Douglass

110-111-112 EDUCATIONAL MEASUREMENTS.

*Three hours.* F, W, S

An introductory survey of tests of intelligence, performance, achievement, personality, and aptitudes; the study and administration of individual and group intelligence and achievement tests, and their prac-

tical application in educational and vocational guidance. Laboratory fee \$2.00 for fall and winter quarters.

*Prerequisite:* junior standing; Psychology 1-2.

*Miss Holbrook*

115. SCHOOL ADMINISTRATION.

*Three hours. S*

A study of state, county, and local school administration and supervision conducted as a research seminar.

*Prerequisite:* senior standing.

116. SCHOOL AND CLASS MANAGEMENT. (Omitted in 1945-46)

151-152 TEACHING LATIN.

*Three hours. W, S*

The place of Latin in the curriculum, the aims of Latin teaching, ways of studying vocabulary, syntax, and derivatives, the selection and use of textbooks and illustrative material. Required for recommendation to teach Latin.

*Prerequisite:* Latin 103.

*Mr. Kidder*

157 TEACHING MODERN LANGUAGES.

*Three hours. F*

A survey of past and present-day methods and procedures, including those sponsored by the Army and Navy. Readings in textbooks, periodicals and other publications.

*Prerequisite:* junior standing; concentration in modern language.

*Mr. Carpenter*

191, 192, 193 EDUCATIONAL SEMINAR.

*Three hours. F, W, S*

Problems in present-day education studied by individuals and the group; methods of investigation and standards for the presentation of material.

*Prerequisite:* graduate standing.

*The department*

**\*ELEMENTARY EDUCATION**

1-2-3 INTRODUCTION TO EDUCATION.

*Three hours. F, W, S*

The elements of psychology as applied to the learning process and child development; a comprehensive preview of the whole program of education, including observation in the demonstration schools.

*Mrs. Adams*

4-5-6 ART EDUCATION I.

*Two hours. F, W, S*

The development of creative ability and art appreciation through drawing, painting, lettering, and crafts. Two double periods. Studio fee \$1.00 for fall and winter quarters.

*Mrs. Mills*

\* For the curriculum in Elementary Education, see the index.

7-8-9 ARTS AND CRAFTS.

*Two hours.* F, W, S

The principles of color and design as applied in various art projects. Studio fee \$1.00 for the fall and winter quarters. Two double periods.

*Mrs. Mills*

10-11-12 SCHOOL MUSIC I.

*Three hours.* F, W, S

Ear training, music reading, and writing; elementary theory.

*Mr. Pappoutsakis*

13-14-15 SCHOOL MUSIC II.

*Two hours.* F, W, S

Basic principles in elementary school music teaching.

*Prerequisite:* School Music I.

*Mr. Pappoutsakis*

19-20-21 MENTAL HYGIENE, ARTS AND CRAFTS. *Three hours.* F, W, S

Mental hygiene in relation to the school program and to the use of arts and crafts in school; emphasis upon ways in which certain crafts may contribute to pupil adjustment. Studio fee \$1.00 winter and spring quarters.

*Miss Holbrook and Mrs. Mills*

30 TEACHING ARITHMETIC.

*Three hours.* S

Subject matter and modern methods of presentation; the aims and principles of teaching arithmetic; the use of standard tests in arithmetic; observation in the demonstration schools.

*Mrs. Adams*

32-33 TEACHING READING.

*Three hours.* F, W

Principles underlying the teaching of reading, including reading readiness, remedial reading, phonetics; the cultivation of correct study habits; the use of standard tests for purposes of diagnosis and improvement; observation in the demonstration schools.

*Mrs. Adams*

34-35-36 TEACHING ENGLISH.

*Three hours.* F, W, S

Principles and techniques in the teaching of the language arts, including spelling and handwriting; common speech problems and their solutions; a study of literature old and new for children. Observation in the demonstration schools.

*Miss Sullivan*

37-38-39 TEACHING HANDWRITING.

*One hour.* F, W, S

A study of manuscript and cursive writing with practice under supervision; the use of scales in evaluation and improving handwriting; instruction in methods of teaching; blackboard writing.

*Miss Madigan*

40-41-42 TEACHING SOCIAL STUDIES AND SCIENCE.

*Three hours.* F, W, S

Subject matter and procedures applicable to the teaching of social studies including geography, history, and topics of current importance;

the teaching of elementary science; the integration of social science and elementary science with other subjects of the elementary school; observation in the demonstration schools. *Miss Reid*

43-44-45 OBSERVATION AND CONFERENCE. *Two hours. F, W, S*

A study of school organization and management through observations in rural and graded demonstration schools; the application of educational and psychological principles to problems of school control; a study of the behavior of children as it is observed on different age and grade levels; a study of lesson planning as it is observed in various subjects and in different grades. One hour of observation and one hour of conference each week. *Miss Reid*

46-47-48 ELEMENTARY CURRICULUM AND STUDENT TEACHING.

(For Two and Three Year Students)

*Six hours. F, W, S*

The curriculum content of the elementary school and appropriate grade placement; school organization and procedures of instruction in relation to child growth and development; the teacher's responsibilities to the school and the community; observation, participation and directed teaching in rural and graded schools. *Miss Reid*

101 TEACHING ART

*Three hours. F*

Principles and processes of modern art education presented by the instructor and observed in the demonstration schools. *Mrs. Mills*

104-105-106 ELEMENTARY CURRICULUM AND STUDENT TEACHING.

(For Seniors)

*Six hours. F, W, S*

Designed to develop teaching competence through integrating and applying the various elements of the four year course for the preparation of elementary teachers; a study of the curriculum of the elementary school; the use of materials of instruction and teaching procedures appropriate for pupils on different age, grade, and development levels; the organization and management of the elementary school; professional and community relationships; observation, participation, and directed student teaching in rural and graded schools. *The Department*

110-111-112 TEACHING PHYSICAL EDUCATION. *One hour. F, W, S*

The development of a program of physical activities to promote the best physical development of pupils in the elementary schools; the teaching of physical activities including games and folk dances; the organization of school and playground activities including supervised and pupil initiated games; observation, participation, and student teaching. *Miss Cummings*

115 HEALTH EDUCATION.

*Two hours. W, S*

Health appraisal, health needs, health adjustments, and conservation as they apply to teachers and pupils in the elementary schools; the development of a program of health education for the elementary school, based upon scientific knowledge of the developing human body, its functioning, and its various needs.

*Miss Crabbe*

\* JUNIOR HIGH SCHOOL EDUCATION

1 JUNIOR HIGH SCHOOL MATHEMATICS.

*Three hours. S*

A review of arithmetic and elementary algebra from the viewpoint of the prospective junior high school teacher; the aims and objectives determining the selection and presentation of subject matter; selected advanced topics in arithmetic; development of skill in computation and in solving problems; use of computing devices; graphs and scale drawings.

*Prerequisite:* Mathematics 1, 2.

3-4-5 EDUCATION SURVEY.

*One hour. F, W, S*

An introduction to the professional study of education; its aims and objectives; the place of the junior high school in the educational system; the principal characteristics of the junior high school contributing to the realization of its purposes.

50-51 GUIDANCE.

*Three hours. W, S*

The underlying principles of guidance and the development of a guidance program for the school; the organization of the school program to meet individual needs of pupils; the use of tests in guidance; ways of meeting personality and behavior problems; the guidance function of the home room; the development and use of cumulative records; counseling pupils with reference to ethical and health problems; leisure time activities, educational programs and vocational goals.

*Prerequisite:* Education 1.

60-61-62 TEACHING JUNIOR HIGH SCHOOL SUBJECTS.

*Three hours. F, W, S*

The basic principles of teaching junior high school pupils; units of study, the content of the various subjects in the curriculum of the junior high school, and their proper grade placement; teaching procedures to individual needs of pupils; observation, participation, and directed student teaching.

*Prerequisite:* Psychology 1-2; Adolescent Psychology.

\* For the curriculum in Junior High School Education, see the index.

**70-71-72 OBSERVATION AND CONFERENCE. *One hour. F, W, S***

Systematic observation to familiarize the prospective teacher with the characteristics of junior high school pupils; a study of the organization of the schools visited; directed observation of instruction in various subjects for the purpose of establishing desirable standards; conferences with instructors. This course is correlated with 60-61-62.

*Prerequisite:* Psychology 1-2; Adolescent Psychology.

**101 ORGANIZATION AND MANAGEMENT OF THE JUNIOR HIGH SCHOOL. *Three hours. F***

The organization, administration, and management of the junior high school for the efficient attainment of educational objectives; the establishment of desirable routine; the practice of democratic procedures; the attainment of individual and group self-discipline.

**107-108-109 OBSERVATION AND STUDENT TEACHING. *Three hours. F, W, S***

The integration of the various subjects in the junior high school education curriculum on the operative level through directed experience; the development of teaching competence and efficient school and class control, leading to individual and group self-discipline and good citizenship on the part of pupils; experience in discharging the responsibilities of the teacher to the school and the community; instructional planning; observation, participation, and directed teaching leading to responsible student teaching.

*Prerequisites:* 60-61-62; 70-71-72 and 101.

**112 VERMONT HISTORY. *Three hours. S***

The political, industrial, economic and social development of Vermont from the period of settlement to the present; the influence of Vermont in the federal union; the part played by the State in national emergencies and enterprises.

*Prerequisite:* senior standing; History 10-11-12.

**\*ENGLISH**

*Professor Lindsay; Associate Professor Pope; Assistant Professors*  
*†Carleton, Dean, Hall, Hughes, Sullivan, and Wainwright; Messrs.*  
*Holmes, Kroepsch, Mrs. Peters, and Miss Smith.*

**1-2-3 ENGLISH COMPOSITION.***Three hours. F, W, S*

Criticism of the common errors of writing and speech; study of words, sentences, and paragraph construction; theme writing, oral reports, study of selected literature as illustrative of the principles discussed. Required of all freshmen, except those who demonstrate proficiency by a preliminary test.

*The Staff***4-5-6 ENGLISH LITERATURE.***Three hours. F, W, S*

An outline of the history of English literature from its beginning through the Victorian Period. Required of students concentrating in English, and normally prerequisite to advanced courses in English literature.

*Prerequisite:* 1-2-3 or exemption therefrom.

*The Staff***7, 8, 9 AMERICAN LITERATURE.***Three hours. F, W, S*

A survey of American literature, exclusive of the drama, from colonial beginnings to the present. Extensive reading, written reports, and class discussions.

7 The 17th and 18th centuries.

8 The romantic period.

9 The late 19th century and early 20th.

*Prerequisite:* 1-2-3 or exemption therefrom.

*Mr. Lindsay***13, 14, 15 PERIODICAL WRITING.***Three hours. F, W, S*

13 News writing.

14 Article writing.

15 Short story and other forms of writing.

*Prerequisite:* 1-2-3 or exemption therefrom.

*Mr. Dean***18 ADVANCED COMPOSITION.***Three hours. S*

Recommended to those who wish to teach English, and to those who wish practice in writing.

*Prerequisite:* sophomore standing.

*Mr. Lindsay*

\* Sophomores and freshmen excused from English Composition must take one of the following courses: English Literature, American Literature, or Periodical Writing.

A student concentrating in English must take forty-five hours in courses offered by the department. Other courses to make up the fifty-four hours for the field should be chosen from courses in Language and Literature and in Social Science.

† Absent on leave: Military Service.



## 101-102-103 SHAKESPEARE.

*Three hours.* F, W, S

Lectures and collateral reading on the Elizabethan drama with literary study and textual interpretation of selected plays of Shakespeare.

*Prerequisite:* junior standing.

Mr. Pope

104, 105, 106 VICTORIAN LITERATURE (1832-1900). *Three hours.* F, W, S

A study of the lives and the works (except the novel) of the significant writers of the era by lectures, discussion, and reports. Outstanding poets and prose writers are studied as spokesmen of their own age and harbingers of the present one. (Not offered in 1945-1946.)

*Prerequisite:* junior standing.

Mr. Wainwright

## 107, 108, 109 ENGLISH NOVEL.

*Three hours.* F, W, S

English fiction from its origins through the nineteenth century. Masterpieces are stressed and read critically.

*Prerequisite:* junior standing.

Mr. Wainwright

## 113, 114, 115 PRESENT-DAY LITERATURE.

*Three hours.* F, W, S

Contemporary writers and the world that produced them.

113 The Modern Novel.

114 The Modern Short Story.

115 Modern American Poetry.

*Prerequisite:* junior standing. Messrs. Pope, Lindsay, and Wainwright

## 117, 118, 119 MODERN DRAMA.

*Three hours.* F, W, S

The origin and development of American drama with a study of leading European dramatists. Reading of representative plays, the new art of drama and the theatre. (Not offered in 1945-46.)

*Prerequisite:* junior standing.

## 121 WORDSWORTH AND COLERIDGE.

*Three hours.* F

The life, character, and work of William Wordsworth and of Samuel Taylor Coleridge. Class discussion of assigned reading, individual study of selected topics and presentation of the results before the class. This course may be supplemented by English 122. (Not offered 1946-47.)

*Prerequisite:* junior standing.

Mr. Lindsay

## 122 BYRON, SHELLEY, AND KEATS.

*Three hours.* W

The lives, characters, and works of Byron, Shelley, and Keats. Lectures and class discussion of their poems and letters, collateral reading, and individual reports on selected topics. This course is supplementary to English 121. (Not offered 1946-47.)

*Prerequisite:* junior standing.

Mr. Pope

## 124, 125, 126 POETRY OF THE RENAISSANCE.

*Three hours.* F, W, S

Lectures and textual study of selected passages from the more im-

portant works of Spenser, Milton, and their contemporaries. (Not offered in 1945-1946.)

*Prerequisite:* junior standing.

127, 128, 129 THE RESTORATION AND THE EIGHTEENTH CENTURY.

*Three hours.* F, W, S

The poetry and prose of these periods, especially the principles of New Classicism, the emergence of early romantic tendencies, eighteenth century satire, and the rise of the essay. (Not offered in 1945-46.)

*Prerequisite:* junior standing.

131-132-133 CHAUCER.

*Three hours.* F, W, S

*The Canterbury Tales* and chief minor poems, with emphasis on the reading of Chaucer's work as poetry, his literary scope and qualities, and the picture of his time portrayed in his writing. (Not offered 1946-47.)

*Prerequisite:* junior standing.

*Miss Hughes*

135, 136, 137 AMERICAN NOVEL.

*Three hours.* F, W, S

(Not offered in 1945-1946.)

140, 141-142 HISTORY OF THE LANGUAGE.

*Three hours.* F, W, S

140 Current English. Modern American speech; the nature of language and the principles of its change and growth.

141-142 Old and Middle English. Development of the language from its beginnings to the standard usage of the present, with reading of various illustrative selections.

*Prerequisite:* junior standing; 140 for 141.

*Miss Hughes*

144, 145, 146 LITERARY THEORY.

*Three hours.* F, W, S

The more important critical writings, ancient and modern, considered as contributions to the theory of literature and as aids to interpretation of literary works. (Not offered in 1945-1946.)

144 Bibliography and methods of literary study.

145 Introduction to poetics; an elementary study of the forms and nature of poetry.

146 History and principles of criticism.

*Prerequisite:* junior standing.

*Mr. Lindsay*

For BIBLICAL LITERATURE, see Religion 1, 2, 3; for foreign literatures in translation, see General Literature.

## GENERAL LITERATURE

1, 2 GREEK LITERATURE IN TRANSLATION.

*Three hours.* F, W

Lectures on the development of the various branches of Greek literature and on its chief authors, with special emphasis on Homeric epic and

drama. Readings in standard translations from the more important writers. No knowledge of Greek required.

*Prerequisite:* junior standing.

*Mr. Kidder*

### 3 LATIN LITERATURE IN TRANSLATION.

*Three hours. S*

Lectures on the development of Latin literature and on the principal Latin writers, with some emphasis on the historical background. Attention to the relation of Latin literature to Greek and English literature. No knowledge of Latin required.

*Prerequisite:* junior standing.

*Mr. Kidder*

### 4-5, 6 CLASSICAL MYTHOLOGY.

*Two hours. F, W, S*

The more important myths and their influence on English literature and art. Lectures, assigned readings, short papers, and recitations.

*Prerequisite:* sophomore standing and some classical background.

*Mr. Prindle*

### 11, 12 GERMAN LITERATURE IN TRANSLATION.

*Three hours. W, S*

Lectures on the development of German literature; reading and discussion of representative works. No knowledge of German required.

11 German literature prior to 1800.

12 German literature since 1800.

*Prerequisite:* junior standing.

*Mr. Carpenter*

## GEOLOGY

*Assistant Professor Doll\**

No courses are offered 1945-46. In 1946-47, courses will be offered, including basic courses in Physical and Historical Geology, and in Physiography.

## GERMAN

*Professor Carpenter; Assistant Professor Ladd*

### 1-2-3 ELEMENTARY GERMAN.

*Three hours. F, W, S*

For students who present less than two years of entrance German. Pronunciation, oral practice, grammar, and easy reading are stressed during the first two quarters, the reading of simple narrative material during the third. *Credit is allowed only if German 4-5-6 is also completed.*

\* Absent on leave, 1945-46.

## 4-5-6 INTERMEDIATE GERMAN.

*Three hours. F, W, S.*

Intensive and extensive reading of short stories, novels, and plays, with particular emphasis on the acquisition of a basic vocabulary necessary for reading German works in any field. During the third quarter, one section reads material of a scientific nature.

*Prerequisite:* 1-2-3 or equivalent.

## 7, 8, 9 COMPOSITION AND CONVERSATION.

*Three hours. F, W, S*

Training in writing and speaking German. Translation into German, free composition, and oral reports are required.

*Prerequisite:* 4-5-6 and permission of the department.

*Mr. Ladd*

## 101-102-103 INTRODUCTION TO GERMAN LITERATURE.

*Three hours. F, W, S*

Selected works of Goethe, Schiller, and Lessing, and a survey of the development of German literature from the beginnings through the classical period, with practice in hearing, writing, and speaking German.

*Prerequisite:* 4-5-6.

*Mr. Carpenter*

## 104 GOETHE'S FAUST.

*Three hours. F*

Reading in class of Part I and most of Part II; study of sources of the poem and its influence, particularly on English literature; outside reading of several plays from other literatures, which deal with a similar theme. (Offered in alternate years, 1945-46.)

*Prerequisite:* 101-102-103.

*Mr. Carpenter*

## 105-106 GERMAN LITERATURE: 1800-1850.

*Three hours. W, S*

The Romantic movement and Young Germany. Reading of selected works, chiefly by Kleist, Grillparzer, and Heine. (Offered in alternate years, 1945-46.)

*Prerequisite:* 101-102-103.

*Mr. Carpenter*

## 107-108 GERMAN LITERATURE: 1850-1900.

*Three hours. F, W*

Reading in class of plays, beginning with dramas of Hebbel, illustrating the development of the realistic trend which burst forth in Naturalism; study of Impressionism and Neo-romanticism; outside reading of typical short stories and novels. (Offered in alternate years, 1946-47.)

*Prerequisite:* 101-102-103.

*Mr. Carpenter*

## 109 GERMAN LITERATURE: THE 20TH CENTURY.

*Three hours. S*

Reading in class of selected works, mainly dramas, exemplifying Expressionism and New Reality; collateral reading of typical short stories and novels. (Offered in alternate years, 1947.)

*Prerequisite:* 101-102-103.

*Mr. Carpenter*

## 121, 122, 123 ADVANCED COMPOSITION AND CONVERSATION.

*Three hours. F, W, S*

Training in the written and oral use of German, with special attention to the acquisition of a correct pronunciation, based on the study of phonetics. Recommended to those preparing to teach German.

*Prerequisite:* 7, 8, 9 or 101-102-103, and permission of the department.

*Mr. Carpenter*

## HISTORY

*Professor Evans; Associate Professor Putnam; Assistant Professor Pooley; Mr. Cooley*

## 1-2-3 ANCIENT HISTORY.

*Three hours. F, W, S*

A brief survey of the ancient Near East, followed by a more detailed study of the ancient Greek and Roman worlds. (Offered in alternate years, 1945-46.)

*Mr. Pooley*

## 4-5-6 MEDIAEVAL EUROPE.

*Three hours. F, W, S*

The history of Europe from the late Roman Empire to the Renaissance, with particular emphasis on political and cultural developments. (Offered in alternate years 1946-47.)

*Mr. Pooley*

## 7-8-9 SURVEY OF EUROPEAN HISTORY.

*Three hours. F, W, S*

An introduction to European history, commencing with the rise of the national state and the beginnings of modern economic life.

*Messrs. Evans and Cooley*

## 10-11-12 SURVEY OF AMERICAN HISTORY.

*Three hours. F, W, S*

A general survey of American history from the early national period to the present, for students who intend to take only one course in the subject.

*Mr. Putnam*

## 104-105, 106 EUROPE IN THE MODERN AGE.

*Three hours. F, W, S*

History of Europe from the seventeenth century to the present.

*Prerequisite:* one course in history; for 106, 7-8-9 or 104-105.

*Mr. Evans*

## 121-122, 123 EARLY AMERICAN HISTORY.

*Three hours. F, W, S*

American history from the discovery through the Civil War. (Offered in alternate years, 1946-47.)

*Prerequisite:* one course in history.

*Mr. Putnam*

- 124-125, 126 LATER AMERICAN HISTORY. *Three hours.* F, W, S  
History of the United States from 1865 to the present. (Offered in alternate years, 1945-46.)  
126 The United States since World War I.  
*Prerequisite:* one course in history. *Mr. Putnam*
- 127-128-129 AMERICAN FRONTIERS. *Three hours.* F, W, S  
The westward movement to the end of the nineteenth century and its influence in shaping American ideals and institutions.  
*Prerequisite:* 121-122, 123 or 124-125, 126. *Mr. Putnam*
- 151-152-153 CONTEMPORARY HISTORY. *Three hours.* F, W, S  
The world since 1918, stressing the background of current events.  
*Prerequisite:* two history courses, preferably 104-105, 106 and 124-125, 126. *Mr. Evans*
- 154-155, 156 ENGLISH HISTORY. *Three hours.* F, W, S  
The British role in history since Roman days.  
156 Great Britain since 1815.  
*Prerequisite:* 7-8-9; English 4-5-6 or equivalent; junior standing. *Mr. Evans*
- 161-162-163 LATIN AMERICAN HISTORY. *Three hours.* F, W, S  
The political, social, and economic development since the Spanish Conquest. (Offered 1946-47.)  
*Prerequisite:* two courses in history. *Mr. Putnam*

## HOME ECONOMICS

The following courses are open to juniors and seniors in the College of Arts and Sciences. Credit for courses marked with a star is accepted for degrees conferred by this College. For descriptions, see HOME ECONOMICS in the College of Agriculture.

### FAMILY LIVING

- 1 HOME NURSING. *Two hours.* S  
101 CHILD CARE. *Three hours.* F  
\*102 CHILD DEVELOPMENT. *Three hours.* F  
\*103 FAMILY RELATIONSHIPS. *Three hours.* S

### FOOD AND NUTRITION

- 103 DIETETICS. *Four hours.* W

### HOME MANAGEMENT

- 101 HOME MANAGEMENT. *Three hours.* F

**\*MATHEMATICS**

*Professor Bullard; Associate Professor Fraleigh; Assistant Professors  
Millington, Nicholson, and Witbath*

**1, 2, 3 FRESHMAN MATHEMATICS.***Three hours. F, W, S*

For students who do not intend to concentrate in science or mathematics. (See also 11, 12, 13.)

1 Elementary college algebra.

2 Plane trigonometry.

3 Plane analytic geometry.

*Prerequisite:* 1 and 2 for 3.

**4 MATHEMATICS OF FINANCE.***Three hours. W*

The mathematical theory of finance applied to interest and investment, annuities, and life insurance.

*Prerequisite:* 1.

**5 STATISTICS.***Three hours. S*

Introduction to the fundamentals of mathematical statistics.

*Prerequisite:* 1.

**7 ANALYTIC GEOMETRY OF THREE DIMENSIONS.***Three hours. F*

A first course in three dimensional geometry, intended to acquaint the student with the analytics of lines, planes, and quadric surfaces.

*Prerequisite:* 1, 2, 3.

**11, 12, 13 FRESHMAN MATHEMATICS.***F, W, S*

For students who intend to concentrate in science or mathematics.

11 College algebra

*Five hours.*

12 Plane and spherical trigonometry.

*Four hours.*

13 Plane and solid analytic geometry.

*Five hours.*

*Prerequisite:* 11 and 12 for 13.

**14-15-16 MODERN GEOMETRY.***Three hours. F, W, S*

Continuation of the study of Euclidean geometry, introducing many recent theorems.

*Prerequisite:* 1, 2, 3 or 11, 12, 13.

\* Not all courses are offered every year. Students who plan to elect any course beyond Mathematics 21-22-23 should consult the department in advance as to when such courses will be offered.

Students who concentrate in mathematics must take 21-22-23 and consult the department as to further requirements.

A review course in algebra and geometry may be given for returning veterans and others, without college credit.

## 17-18-19 CALCULUS.

*Three hours. F, W, S*

A course in differential and integral calculus designed to give students who do not intend to pursue further the study of mathematics an appreciation of the methods and applications of calculus.

*Prerequisite:* 3 or 13.

## 21-22-23 CALCULUS.

*Three hours. F, W, S*

The fundamentals of differential and integral calculus and applications to other sciences, with emphasis on the technique of differentiation and integration and the use of calculus in problems of mathematics and physics.

*Prerequisite:* 11, 12, 13; or 1, 2, 3 with concurrent enrollment in 7 and 21.

## 101-102 HIGHER ALGEBRA.

*Three hours. W, S*

Linear dependence, matrices, properties of polynomials, etc.

*Prerequisite:* 1, 2, 3 or 11, 12, 13.

## 104-105-106 PROJECTIVE GEOMETRY.

*Three hours. F, W, S*

Study of the projective transformations and the associated geometries by both synthetic and analytic methods.

*Prerequisite:* 21-22-23.

## 107-108-109 ADVANCED CALCULUS.

*Three hours. F, W, S*

A critical study of the calculus beginning with limits, continuity, differentiation, and Riemann integrals, together with a treatment of those topics not included in the earlier course, as a foundation for more advanced courses in analysis and applied mathematics.

*Prerequisite:* 21-22-23.

## 110, 111, 112 DIFFERENTIAL EQUATIONS.

*Three hours. F, W, S*

110 Solution of ordinary differential equations, introducing operational methods.

111 Solution of partial differential equations; series solutions.

112 Topics of analysis especially useful in mathematical physics and engineering.

*Prerequisite:* 21-22-23; 110 for 111; 111 for 112.

## 113-114-115 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.

*Three hours. F, W, S*

An elementary study of one complex variable, differentiation and integration, singularities, Riemann surfaces, analytic continuation, etc.

*Prerequisite:* 107-108-109.

## 116-117 INFINITE SERIES.

*Three hours. F, W*

Convergent series of constant and of variable terms, uniform convergence, continuity of the sum function, differentiation and integration, and theory of summability.

*Prerequisite:* 107-108-109, unless taken simultaneously with 107-108.



## 118 STATISTICS.

*Three hours. S*

A second course in statistics.

*Prerequisite: 5 and 21-22-23.*

## 201-202-203 THEORY OF FUNCTIONS.

*Three hours. F, W, S*

A study of the functions of real variables, including such topics as point sets and measure, transfinite numbers, Riemann and Lebesgue integrals, sequences of functions, etc. Considerable outside reading in this field will be assigned.

*Prerequisite: 107-108-109.***\*MUSIC**

*Professor Bennett; Assistant Professors Marston and Pappoutsakis;  
Mrs. Bradish and Mrs. Rowe.*

**HISTORY AND THEORY OF MUSIC**

## 1, 2, 3 SURVEY OF MUSICAL LITERATURE.

*Three hours. F, W, S*

A course for concert and radio listeners. No previous technical knowledge is required.

1 From Palestrina to Beethoven.

2 From Schubert to Wagner.

3 From Brahms to Stravinsky.

*Mr. Bennett*

## 4-5-6 ELEMENTARY SIGHT-SINGING, EAR-TRAINING, AND THEORY.

*Two hours. F, W, S*

Recommended to precede or accompany 7-8-9, but may be taken separately.

*Mr. Pappoutsakis*

## 7-8-9 ELEMENTARY HARMONY.

*Three hours. F, W, S*

Harmonization of melodies and basses, using triads, inversions, seventh chords, and modulation.

*Prerequisite: familiarity with scales and keys, and ability to read simple music at the piano.*

*Mr. Bennett*

## 10-11-12 ADVANCED SIGHT-SINGING, EAR-TRAINING, AND THEORY.

*Two hours. F, W, S*

Recommended to precede or accompany 101-102-103 or 104-105-106, but may be taken separately.

*Prerequisite: 4-5-6.**Mr. Pappoutsakis*

\* A concentration in music must include, 1, 2, 3 and 7-8-9, and two of the following: 101-102-103, 104-105-106, 107-108-109, and 121, 122, 123.

For the curriculum in Music Education, see the index.

101-102-103 ADVANCED HARMONY AND HARMONIC ANALYSIS.

*Three hours. F, W, S*

*Prerequisite: 7-8-9.*

104-105-106 COUNTERPOINT.

*Three hours. F, W, S*

*Prerequisite: 7-8-9.*

*Mr. Bennett*

107-108-109 ORCHESTRATION AND CONDUCTING. *Three hours. F, W, S*

The characteristics of instruments; arranging; technique of the baton; elementary instrumental technique.

*Prerequisite: 7-8-9; 101-102-103 is also desirable. Mr. Pappoutsakis*

121, 122, 123 HISTORY OF MUSIC.

*Three hours. F, W, S*

Changes in musical structure and style, and their relation to contemporaneous artistic, literary, religious, and social movements.

121 From the beginnings of harmony through the eighteenth century.

122 The nineteenth century.

123 The twentieth century.

*Prerequisite: 1, 2, 3; junior standing.*

*Mr. Bennett*

MUSIC EDUCATION

31, 32, 33 ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE

TEACHING.

*Three hours. F, W, S*

The teaching of music in the primary and grammar grades. Observation and practice teaching in the schools of Burlington and vicinity.

31 Grades 1 and 2.

32 Grades 3 and 4.

33 Grades 5 and 6.

*Prerequisite: 1, 2, 3; credit or enrollment in 4-5-6.*

151, 152, 153 SECONDARY SCHOOL MUSIC METHODS AND PRACTICE

TEACHING.

*Three hours. F, W, S*

The administration and content of required and elective high school music courses. Observation and practice teaching in the schools of Burlington and vicinity.

151 Junior high school music.

152 Vocal music in the senior high school.

153 Instrumental and theoretical music in the senior high school.

*Prerequisite: credit or enrollment in 1, 2, 3 and 4-5-6. Miss Marston*

154-155-156 APPLIED MUSIC METHODS.

*One hour. F, W, S*

Methods of teaching piano, organ, singing, or violin.

*Prerequisite: three years' instruction in chosen instrument at the University, or equivalent. Miss Marston and Mrs. Bradish*

**APPLIED MUSIC****40, 41, 42 CHOIR.***\*One hour. F, W, S*

Study of works by Bach, Handel, Palestrina, modern Russian composers and others. Weekly services; monthly vespers; Christmas, Lenten-Easter, and other concerts; annual opera; Baccalaureate service. Three hours of rehearsal weekly, if taken for credit.

*Mr. Bennett, director; Miss Marston, organist*

**43, 44, 45 ORCHESTRA.***\*One hour. F, W, S*

Study of symphonic and other instrumental literature. The orchestra plays at concerts and the opera, alone and with the choir, and at Commencement. Two one-and-a-half-hour rehearsals weekly.

*Mr. Pappoutsakis, conductor*

**46, 47, 48 PIANO.***\*One or two hours. F, W, S*

*Miss Marston*

**49, 50, 51 ORGAN.***\*One or two hours. F, W, S*

*Miss Marston*

**52, 53, 54 SINGING.***\*One or two hours. F, W, S*

*Mrs. Bradish*

**55, 56, 57 VIOLIN.***\*One or two hours. F, W, S*

*Mrs. Rowe*

**NURSING**

*Associate Professor Crabbe; Assistant Professor Dittig; Misses Lois Brown and Morneault.*

**1 ELEMENTARY NURSING ARTS.***Six hours. S*

An introduction to basic principles, techniques, and skills of nursing, with emphasis on an approach to the patient as an individual. The principles of hygienic measures and of hospital housekeeping, and the role of the nurse as teacher. Class instruction, demonstrations, and supervised hospital practice. Freshman year.

*Miss L. Brown*

\* All courses in applied music may be taken for several years, but no student may receive credit toward graduation totalling more than nine quarter hours in choir or orchestra or both together. One hour of credit per quarter will be given for one private lesson in piano, organ, singing, or violin under a member of the department and five hours practice per week; two hours credit will be given for two private lessons and ten hours practice per week, on recommendation of the instructor and the chairman of the department and on condition that the instruction be accompanied or preceded by either 1, 2, 3 or 7-8-9.

For the fees for instruction and use of organ and practice piano, see the index under "Fees."

**2 INTERMEDIATE NURSING ARTS.***Six hours. Su*

The principles underlying more advanced nursing techniques and skills, including the principles and practice of medical and surgical aseptic technique, administration of medications and irrigations, application of heat and cold, care of the acutely and chronically ill, bandaging and emergency nursing. Class instruction, demonstrations, and supervised hospital practice. Sophomore year.

*Prerequisite: 1.**Miss L. Brown***3 ADVANCED NURSING ARTS.***Three hours. F*

The more comprehensive nursing techniques and skills in the care of the patient. Demonstrations of nursing care and discussions are presented by the students. Junior year.

*Prerequisite: 2.**Miss L. Brown***10 PHARMACOLOGY I.***Three hours. Su*

Methods of making solutions and calculating dosages; the nurse's responsibility in the administration of medicines; the physiological action, therapeutic uses dosage, and toxicology of commonly used drugs.

*Miss Crabbe***11 PHARMACOLOGY II.***Three hours. Su*

Drugs and the conditions for which they are commonly used.

*Miss Crabbe***12 NURSING ORIENTATION.***Three hours. Su*

The historical development of nursing from the pre-Christian era to the present, tracing the rise of nursing as an educational system.

*Miss Crabbe***13 BACTERIOLOGY AND CLINICAL PATHOLOGY.***Six hours. Su*

Principles of bacteriology as applied to nursing; sources of infection, resistance to disease, and production of immunity. Lectures, demonstrations, laboratory.

*Miss Morneau and Dr. Grubaugh***20-21 ANATOMY.***Six hours. Su, F*

A survey of the gross and microscopic structure of the human body. Freshman year.

*Miss Dittig and Dr. Newhall***101 COMPARATIVE NURSING PRACTICE.***Three hours. W*

The analysis and evaluation of nursing methods; laboratory and library investigation, demonstration of selected nursing procedures, class discussion, and criticism. *Open only to graduate nurses.*

*Miss L. Brown*

## 104-105 TEACHING NURSING ARTS.

Six hours. S, Su

The objectives of the course in nursing arts, the subject matter and methods of presentation, demonstration of nursing methods and techniques, methods of supervision in the classroom and in the hospital, the development of an adequate outline of instruction to meet the needs of the students and of the hospital. *Open only to a limited number of graduate nurses.*

Miss L. Brown

## 110-111 THE CURRICULUM IN NURSING.

Six hours. F, S

Principles and methods of curriculum making; philosophy, aims, sources, and techniques in planning the program of study. Problems of installing the curriculum; selection and use of text books; arrangement and general content of courses of study.

*Prerequisite:* graduation from accredited school of nursing; principles of education and educational psychology, or permission of the instructor.

Miss Crabbe

## 113-114 WARD MANAGEMENT AND WARD TEACHING. Six hours. F, W

Principles of organization and administration in the head nurse unit; planning and evaluating nursing care; organizing and developing a ward instructional program for students of nursing.

*Prerequisite:* graduation from accredited school of nursing. Miss Dittig

## PHILOSOPHY

Professors Dykhuizen and Gifford

## 1 INTRODUCTION TO PHILOSOPHY.

Three hours. F

A presentation of the chief problems of philosophy. Mr. Dykhuizen

## 2 LOGIC.

Three hours. W

The principles and conditions of correct thinking with emphasis on the detection of fallacies of thought. Mr. Dykhuizen

## 3 ETHICS.

Three hours. S

An examination of the ideas underlying man's moral behavior. The aim is to develop an acceptable and coherent theory of conduct.

Mr. Dykhuizen

## 102-103 SOCIAL ETHICS.

Three hours. W, S

The application of psychological and ethical principles and the techniques of practical adjustment in social problem situations.

*Prerequisite:* 3 or Psychology 101; junior standing.

Mr. Gifford

- 104 HISTORY AND INTERPRETATION OF RELIGION. *Three hours. F*  
The origins, development, and variety of religious cults. Critical survey of the great religions.

*Prerequisite:* senior standing.

*Mr. Gifford*

- 105-106 METAPHYSICS. *Three hours. W, S*  
Basic problems in the theory of knowledge and of reality, with special reference to the philosophy of science.

*Prerequisite:* 104; senior standing.

*Mr. Gifford*

- 107, 108-109 HISTORY OF PHILOSOPHY. *Three hours. F, W, S*

107 Ancient Greek and Roman philosophy.

108 Medieval and early modern philosophy.

109 Eighteenth and nineteenth century philosophy.

*Prerequisite:* junior standing; 108 for 109.

*Mr. Dykhuizen*

- 113-114 INTELLECTUAL BACKGROUND OF MODERN LIFE.

*Three hours. W, S*

The thought movements which have determined the thought of today.

*Prerequisite:* senior standing.

*Mr. Dykhuizen*

## PHYSICS

*Professor Holmes; Associate Professor Walbridge; Assistant Professors Rooney and Woodward.*

- 1-2-3 INTRODUCTORY PHYSICS. (2-2) *Three hours. F, W, S*

An introductory course for students not concentrating in a science. The successive quarters deal with Mechanics; Heat, Sound, and Light; Magnetism and Electricity. Demonstration lectures, presenting experimental facts and theoretical conclusions, are closely coordinated with laboratory work. Fee \$2.00 per quarter.

*Prerequisite:* one year each of secondary school algebra and geometry.

*The Staff*

- 11-12-13 GENERAL PHYSICS. (3-4) *Five hours. F, W, S*

For students concentrating in a science. The successive quarters deal with Mechanics; Heat, Sound, and Light; Magnetism, Electricity, and Atomic Physics. Experimental facts and theoretical principles are presented, with special attention to the scientific method employed and emphasis on training in simple reasoning. Laboratory fee \$4.00 per quarter.

*Prerequisite:* Mathematics 11, 12, 13.

*The Staff*

## 111-112-113 MECHANICS AND WAVE MOTION. (3-0)

*Three hours. F, W, S*

Continuation and developments of the principles and methods of Mechanics with emphasis on the integration of fundamental physical principles with mathematics and with the extension of these principles to Wave Motions.

111 Forces and other vector quantities. Work and energy.

112 Statics and dynamics of rigid bodies.

113 Wave motion with introduction to Wave Mechanics.

*Prerequisite:* 11 and Calculus for 111; 111 and Differential Equations for 112; 112 for 113.

*Mr. Walbridge*

## 121, 122, 123 HEAT AND THERMODYNAMICS. (3-0)

*Three hours. F, W, S*

Experimental facts and theoretical principles of heat.

121 Thermometry, expansion, specific heat and gas laws. (2-2) Fee \$4.00.

122 Thermodynamics. (3-0) The relation between mechanical work and heat; various thermodynamical cycles and the thermodynamics of radiation.

123 Thermal Conduction. (3-0) The basic theory of conduction of heat, involving the application of various mathematical principles.

*Prerequisites:* 12 and Calculus for 121; 121 and Differential Equations for 122 and 123.

*Mr. Woodward*

## 141, 142, 143 MAGNETISM AND ELECTRICITY. (2-2)

*Three hours. F, W, S*

The fundamental principles, such as magnetic and electric field strengths and potentials. Resistance and energy relations in direct current circuits, with the development of concepts such as capacitance and inductance, and applications to transient phenomena and to alternating currents. Fee \$4.00 per quarter.

141 Basic principles of magnetism and of electrostatics.

142 Phenomena and theory in direct current circuits.

143 Transient phenomena and alternating currents.

*Prerequisites:* 13 and Calculus for 141; 141 for 142; 142 for 143.

*Messrs. Holmes and Rooney*

## 151, 152, 153 X-RAYS AND CRYSTAL STRUCTURE. (2-2)

*Three hours. F, W, S*

The production and properties of X-rays with laboratory uses of X-ray tubes and measurements of wave lengths and of absorptions. The application of X-ray methods to the study of crystal structure. Fee \$4.00 per quarter.

151 Elementary work in the field of x-rays.

152 Application to the determination of crystal structure.

153 Advanced study of the interactions between radiation and matter.

*Prerequisite:* 171 for 151; 151 for 152 and for 153. *Mr. Walbridge*

161, 162, 163 OPTICS AND SPECTROSCOPY (2-2) *Three hours.* F, W, S

Reflection and refraction from a geometrical point of view; the wave motion properties of light with applications to interference phenomena. In Spectroscopy the radiations emitted by atoms of various elements are studied and the results utilized in forming theories regarding atomic structures. Fee \$4.00 per quarter.

161 Geometrical optics.

162 Physical optics.

163 Spectroscopy.

*Prerequisite:* 13 for 161; 161 and Calculus for 162; 162 for 163.

*Mr. Woodward*

171, 172, 173 ELECTRON AND ATOMIC PHYSICS (2-2)

*Three hours.* F, W, S

The behavior of individual electrons and of aggregates of electrons; phenomena associated with motions of electrons in magnetic fields; photoelectric effect and thermionic emission; the uses of vacuum tubes. Atomic Physics includes the study of radioactivity and of atomic disintegration. Fee \$4.00 per quarter.

171 Fundamental electronics.

172 Thermionic emission and vacuum tube circuits.

173 Atomic and nuclear physics.

*Prerequisite:* 13 for 171; 171 for 172; 172 for 173.

*Messrs. Holmes and Rooney*

181-182-183 UNDERGRADUATE EXPERIMENTAL PHYSICS. (0-6)

*Three hours.* F, W, S

Students concentrating in Physics will select a subject and will work without the detailed guidance necessary in the usual type of laboratory work. The course, part way between an ordinary undergraduate laboratory course and elementary research, will involve both theoretical and experimental work. In place of class work the student will do independent study with frequent consultations with the instructor. Fee \$4.00 per quarter.

*Prerequisite:* Any course in the 100 group with "3" as the last digit.

*The Staff*

201-202-203 SEMINAR.

*One hour.* F, W, S

Members of the staff and graduate students meet once a week to study contemporary advances in Physics and for reports on research being done in the department.

*The Staff*

211-212-213 RESEARCH.

*Nine to twelve hours.* F, W, S

For students seeking a Master of Science degree in Physics. A problem is selected in consultation with a member of the staff.

*Prerequisite:* Nine quarter courses in the 100 group and either Advanced Calculus or Differential Equations.

*The Staff*



## POLITICAL SCIENCE

*Professor Carroll, Associate Professor Nuquist, Assistant Professor Long*

- 1, 2, 3 AMERICAN GOVERNMENT. *Three hours. F, W, S*  
 1 Organization of the American federal government.  
 2 Functions of the American federal government.  
 3 American state government.  
*Prerequisite: 1 for 2. The Staff*
- 51, 52, 53 INTERNATIONAL RELATIONS. *Three hours. F, W, S*  
 51 Development of international relations.  
 52 Principles and policies of international relations.  
 53 International organization.  
*Prerequisite: sophomore standing; 51 for 52. Mr. Long*
- 61, 64 LOCAL GOVERNMENT. *Three hours. F, W*  
 61 Rural government.  
 64 Municipal government.  
*Prerequisite: sophomore standing. Mr. Nuquist*
- 71, 72, 73 COMPARATIVE GOVERNMENT. *Three hours. F, W, S*  
 71 Governments of the British Commonwealth of Nations.  
 72 Governments of Western Continental Europe.  
 73 Governments of Eastern Europe.  
*Prerequisite: sophomore standing. Mr. Carroll*
- 76 GOVERNMENTS OF THE FAR EAST. *Three hours. W*  
 Governments of China and Japan.  
*Prerequisite: sophomore standing. Mr. Nuquist*
- 151 FOREIGN POLICY OF THE UNITED STATES. *Three hours. F*  
 Foreign policy and foreign relations of the United States.  
*Prerequisite: any course except 1, 2, 3. Mr. Long*
- 153 INTERNATIONAL RELATIONS OF THE FAR EAST. *Three hours. S*  
 Foreign policies and foreign relations of the principal countries of the Far East.  
*Prerequisite: any course except 1, 2, 3. Mr. Long*
- 154 INTERNATIONAL LAW. *Three hours. S*  
 Legal basis of international relations in time of peace.  
*Prerequisite: any course except 1, 2, 3. Mr. Long*
- 173, 174, 175 CONSTITUTIONAL LAW. *Three hours. F, W, S*  
 173 Nature of the American constitutional system.  
 174 Powers of Congress.  
 175 Position of the states.  
*Prerequisite: 1, 2, 3, and either one other course or Economics 10, 11, 12. Mr. Carroll*

- 183, 184-185 PUBLIC ADMINISTRATION. *Three hours. F, W, S*  
 183 Organization of public administration.  
 184 Financial administration.  
 185 Administrative law.  
*Prerequisite:* any course except 1, 2, 3; 183 for 184. *Mr. Nuquist*
- 193, 194 POLITICAL THEORY. *Three hours. F, W*  
 193 Development of political theory.  
 194 Recent political theory.  
*Prerequisite:* two courses in Political Science. *Mr. Carroll*
- 195 POPULAR GOVERNMENT. *Three hours. S*  
 Nature, theory, and importance of democratic government.  
*Prerequisite:* two courses in Political Science. *Mr. Carroll*

## PSYCHOLOGY

*Professors Metcalf and Gifford; Assistant Professors \*Collier and Riker*

- 1-2 GENERAL PSYCHOLOGY. *Three hours. F, W, S*  
 An introduction to the entire field, emphasizing the normal adult human being. *The Staff*
- 3 PSYCHOLOGY OF HUMAN ADJUSTMENT. *Three hours. S*  
 Preliminary study of problems connected with the individual's adjustment to the social group.  
*Prerequisite:* 1-2. *The Staff*
- 4 APPLIED PSYCHOLOGY. *†Three hours. S*  
 A brief survey, designed to meet the needs and interests of students in Home Economics.  
*Prerequisite:* 1-2. *Mr. Riker*
- 101 SOCIAL PSYCHOLOGY. *Three hours. F*  
 The social factors in personality and the psychological aspects of social relations, groups, institutions, and culture. (Normally followed by Philosophy 102-103.)  
*Prerequisite:* 1-2. *Mr. Gifford*
- 104 DIFFERENTIAL PSYCHOLOGY. *Three hours. F*  
 A study of individual differences in mental traits and abilities.  
*Prerequisite:* 1-2. *Mr. Riker*

\* Absent on leave, 1945-46; resigned January 26, 1946.

## 105-106 APPLIED PSYCHOLOGY.

†Three hours. W, S

The applications of psychological methods and technology to industry, the professions, social welfare, etc.

Prerequisite: 1-2.

Mr. Riker

## 107 CHILD PSYCHOLOGY.

Three hours. F

The development of the human mind from birth to maturity.

Prerequisite: 1-2.

Mr. Metcalf

## 108 CHARACTER AND PERSONALITY.

Three hours. W

A survey of methods used and results obtained in the analytical study of the nature and development of the mature individual.

Prerequisite: 1-2.

Mr. Metcalf

## 109 ABNORMAL PSYCHOLOGY.

Three hours. S

The more unusual mental processes, the methods of observing and interpreting them, and their bearing on our understanding of the normal mind.

Prerequisite: 1-2.

Mr. Metcalf

## 110-111-112 TESTS AND MEASUREMENTS.

Three hours. F, W, S

Individual training in the fundamental concepts of psychological measurement, the administration of tests, and the interpretation of results.

Prerequisite: 1-2.

Mr. Riker

## 113-114-115 EXPERIMENTAL PSYCHOLOGY. (1-4)

Three hours. F, W, S

The student performs experiments designed to develop skill in psychological methods of procedure and thought.

Prerequisite: 1-2.

Mr. Metcalf

## 116-117 AESTHETICS.

Three hours. F, W

The mental processes involved in the response to the beautiful in art and nature. (Not offered 1945-46.)

Mr. Metcalf

## 118 SYSTEMATIC PSYCHOLOGY.

Three hours. S

A comparative study of the leading contemporary schools of psychological thought. (Not offered 1945-46.)

Mr. Metcalf

† No credit is allowed for 4 if 105-106 is also taken.

## RELIGION

*Assistant Professor Hall*

### 1, 2, 3 BIBLICAL LITERATURE.

*Three hours. F, W, S*

- 1 Old Testament.
- 2 New Testament.
- 3 Life of Christ.

*Prerequisite:* sophomore standing.

*Mr. Hall*

## ROMANCE LANGUAGES

*Professors Daggett and DeForest; Assistant Professors Doane and Towne; Mr. Webster*

## FRENCH

### 1-2-3 ELEMENTARY FRENCH.

*Three hours. F, W, S*

Grammar, pronunciation, composition and translation, dictations, and use of the spoken language, for beginners and those who present less than two years of preparatory French. *Credit is given only if Intermediate French is also completed.* Messrs. Doane and Webster

### 4-5-6 INTERMEDIATE FRENCH.

*Three hours. F, W, S*

Grammar, composition, translation, and conversation. The class work is conducted, as much as possible, in French. A section is reserved for those who expect to concentrate in French.

*Prerequisite:* 1-2-3 or two years of preparatory French.

*Messrs. Daggett, Doane, Towne, and Webster*

### 101-102-103 INTRODUCTION TO FRENCH LITERATURE.

*Three hours. F, W, S*

Lectures, recitations, collateral reading, reports, and advanced composition. Selected texts from the 17th, 18th, and 19th centuries are the basis of study.

*Prerequisite:* 4-5-6.

*Messrs. DeForest and Webster*

### 107-108-109 FRENCH LITERATURE: 19TH CENTURY.

*Three hours. F, W, S*

Recitations, lectures, outside reading, and reports. A real knowledge of French is presumed.

*Prerequisite:* 101-102-103; junior standing.

*Mr. Daggett*

## 110-111-112 FRENCH LITERATURE: 18TH CENTURY.

*Three hours.* F, W, S

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. (Offered 1947-48.)

*Prerequisite:* 101-102-103; junior standing.

Mr. Daggett

## 113-114-115 FRENCH LITERATURE: 17TH CENTURY.

*Three hours.* F, W, S

Lectures on the development of classic literature, outside reading, recitations, and reports. 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. (Offered 1946-47.)

*Prerequisite:* 101-102-103; junior standing.

Mr. Daggett

## 116-117-118 MODERN FRENCH DRAMA.

*Three hours.* F, W, S

Brief history of modern French drama; outside reading. Written summaries of portions of the plays read, discussion of the text assigned, and lectures on dramatic technique and literary history.

*Prerequisite:* 101-102-103; junior standing.

Mr. DeForest

121-122-123 CONVERSATION AND COMPOSITION. *Three hours.* F, W, S

Composition, phonetics, exercises in advanced conversation. Required of those who wish to be recommended to teach French.

*Prerequisite:* Good standing in 101-102-103.

Mr. Daggett

## 124-125-126 ADVANCED COMPOSITION AND CONVERSATION.

*Three hours.* F, W, S

Translation into French of difficult modern English prose, free composition, discussion of questions of rhetoric and style, exercises in intonation. Practice in advanced conversation throughout the year.

*Prerequisite:* 121-122-123.

Mr. Daggett

## 131-132-133 OLD FRENCH.

*Three hours.* F, W, S

Lectures on Old French phonology and morphology and selected readings from the oldest texts.

*Prerequisite:* Senior standing; advanced courses in French; Latin 7-8-9.

Mr. Daggett

## 200-201-202 GRADUATE COURSES.

*Three hours.* F, W, S

Courses are offered for graduate credit to resident candidates for the Master of Arts degree and further opportunities for independent work are provided.

## ITALIAN

### 1-2-3 ELEMENTARY ITALIAN.

*Three hours. F, W, S*

Grammar, composition, translation, and practice in the spoken language for beginners. Restricted to students having good standing in other language courses.

*Prerequisite:* Permission of the department.

*Mr. DeForest*

### 4-5-6 INTERMEDIATE ITALIAN.

*Three hours. F, W, S*

*Prerequisite:* Italian 1-2-3.

*Mr. DeForest*

## SPANISH

### 1-2-3 ELEMENTARY SPANISH.

*Three hours. F, W, S*

Grammar, composition, and translation for beginners, with frequent practice in pronunciation and use of the spoken language. *Credit is given only if Intermediate Spanish is also completed.*

*Messrs. Daggett, Towne, and Webster*

### 4-5-6 INTERMEDIATE SPANISH.

*Three hours. F, W, S*

Readings from selected authors. Advanced composition, grammar, and conversational practice. Spoken Spanish is used to a considerable extent in class.

*Prerequisite:* 1-2-3 or two years of preparatory Spanish.

*Messrs. Doane and Towne*

### 101-102-103 INTRODUCTION TO SPANISH LITERATURE

*Three hours. F, W, S*

Selected texts from the 17th century to modern times; recitations, collateral reading, reports; advanced composition.

*Prerequisite:* a grade of at least 72 in 4-5-6.

*Mr. DeForest*

### 107-108-109 SPANISH LITERATURE: 19TH CENTURY.

*Three hours. F, W, S*

Recitations, lectures, outside reading and reports. A reading knowledge of Spanish is presumed. (Offered 1947-48.)

*Prerequisite:* 101-102-103; junior standing.

*Mr. DeForest*

### 113-114-115 SPANISH LITERATURE: 17TH CENTURY.

*Three hours. F, W, S*

Selected readings from the novel, poetry, and drama of the literature of the Golden Age. (Offered 1946-47.)

*Prerequisite:* 101-102-103; junior standing.

*Mr. DeForest*

121-122-123 CONVERSATION AND COMPOSITION. *Three hours. F, W, S*

Conversation, phonetics, intonation; advanced composition. Required of those who wish to be recommended to teach Spanish.

*Prerequisite:* junior standing and high standing in Spanish.

*Mr. DeForest*

## 131-132-133 OLD SPANISH.

*Two hours. F, W, S*

Introduction to Spanish literature from the beginnings to the end of the medieval period with readings from early texts. The development of sounds, forms, and syntax from vulgar Latin into Spanish.

*Prerequisite:* senior standing; advanced courses in Spanish; Latin 7-8-9.

*Mr. Daggett*

## 200-201-202 GRADUATE COURSES.

*Three hours. F, W, S*

Courses are offered for graduate credit to resident candidates for the Master of Arts degree and further opportunities for independent work are provided.

## SOCIOLOGY

*Professor Gifford*

## 1 DEVELOPMENT OF SOCIETY.

*Three hours. F*

A study of social and cultural origins and development.

*Prerequisite:* sophomore standing.

## 2-3 CONTEMPORARY SOCIETY.

*Three hours. W, S*

A study of contemporary social relations, institutions, and trends.

*Prerequisite:* sophomore standing.

## ZOOLOGY

*Professor Moody; Assistant Professors Lochbead and Rowell; Dr. Hartung.*

## 1 INTRODUCTION TO ZOOLOGY.

*Four hours. F*

The cell, its specialization; phylogenetic changes in body plan; the anatomy and physiology of a vertebrate as exemplified by the frog. Lectures, laboratory. Fee \$2.50.

*Mr. Rowell and Staff*

## 2 INVERTEBRATE ZOOLOGY.

*Four hours. W*

Anatomy, physiology, and life history of selected representatives of the more important invertebrate phyla. Lectures, laboratory. Fee \$3.00.

*Prerequisite:* 1.

*Messrs. Lochbead and Hartung*

- 3 VERTEBRATE ZOOLOGY. *Four hours. W*  
Survey of Phylum Chordata, accompanied by dissection of typical sub-mammalian vertebrates. Lectures, laboratory. Fee \$5.00.  
*Prerequisite: 1. Messrs. Moody, Rowell, and Hartung*
- 4 EVOLUTION. *Four hours. S*  
Evidences of the occurrence of evolution; inheritance and evolutionary change; theories of evolution. Lectures, laboratory. Fee \$2.50.  
*Prerequisite: 1. Messrs. Moody and Hartung*
- 23 COMPARATIVE ANATOMY. *Four hours. S*  
Study of the evolution of the organ systems of vertebrates, accompanied by the dissection of a mammal. Lectures, laboratory. Fee \$5.00.  
*Prerequisite: 3. Mr. Lockhead*
- 26 VERTEBRATE EMBRYOLOGY. *Four hours. S*  
Comparative study of the early development of frog, chick, and mammal. Lectures, laboratory. Fee \$3.00.  
*Prerequisite: 3. Mr. Rowell*
- 27 PHYSIOLOGY. *Three hours. W*  
Introduction to the fundamental chemical and mechanical bases of animal physiology, with special reference to man.  
*Prerequisite: 1. Mr. Lockhead*
- 103 PRIMATE ANATOMY. *Four hours. F*  
Detailed dissection of the Rhesus monkey. Laboratory. Fee announced each year.  
*Prerequisite: 23. Mr. Moody*
- 106-107 HEREDITY. *Three hours. F, W*  
Principles of inheritance and their physical basis, with emphasis upon heredity in man.  
*Prerequisite: junior standing; one course in Botany, Psychology, or Zoology. Mr. Moody*
- 108 HUMAN GENETICS. *Three hours. S*  
Application of principles of heredity to improvement of mankind and to solution of problems presented by population changes, differential birth rates, war, migration, and racial inter-relationships.  
*Prerequisite: 106-107, or Botany 120. Mr. Moody*
- 109 HISTOLOGY. *Four hours. F*  
Comparative study of tissues from a wide range of forms to demon-



strate basic similarities and particular specializations. Lectures, laboratory. Fee \$3.00.

*Prerequisite:* 2 or 3; Botany 111.

*Mr. Rowell*

111, 112, 113 SEMINAR.

*One hour. F, W, S*

Review and discussion of publications presenting current zoological research. Required of graduate students and seniors concentrating in Zoology; not only to others.

*The Staff*

200, 201, 202 ADVANCED READINGS.

*Credit as arranged.*

Readings, with conferences, on topics chosen to provide graduate students with background for, and specialized knowledge relating to, their research problems. Required of graduate students specializing in Zoology; open to others by special permission only.

*Mr. Moody*

## The College of Engineering

The College of Engineering offers instruction in the three curricula, Civil, Electrical, and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization. Each curriculum includes the general subjects: Mathematics, Chemistry, Physics, Mechanical Drawing, Elements of Electrical Engineering, Mechanics, Engineering Materials, Hydraulics, Economics, English, and Contracts.

All freshman and sophomore men are required to complete the two basic courses in Military Science for a total credit of twelve quarter 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 ENGINEERING CURRICULA

### THE FRESHMAN YEAR

(For All Curricula)

	F	W	S
	QUARTER		
Freshman Mathematics .....	5	4	5
Mechanical Drawing .....	3	2	3
General Chemistry .....	5	5	5
English Composition .....	3	3	3
Engineering Materials .....	2	2	2
Military Science (Men) .....	2	2	2
Physical Education .....	1	1	1
	19	19	19

### CIVIL ENGINEERING

#### THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Calculus .....	3	3	3
General Physics .....	5	5	5
English .....	3	3	3
Statics & Kinetics .....	3	3	3
Surveying .....	4	4	4
Military Science (Men) .....	2	2	2
Physical Education .....	1	1	1
(Engineering Camp 3 hours, summer)			
	18	18	18

### ELECTRICAL ENGINEERING

#### THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Calculus .....	3	3	3
General Physics .....	5	5	5
English .....	3	3	3
Statics & Kinetics .....	3	3	3
Elements of Elec. Engrg. ....	5	5	5
D. C. Machines .....	3	3	3
Electrical Laboratory .....	1	1	1
Military Science (Men) .....	2	2	2
Physical Education .....	1	1	1
	19	18	18

### MECHANICAL ENGINEERING

#### THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Calculus .....	3	3	3
General Physics .....	5	5	5
English .....	3	3	3
Statics & Kinetics .....	3	3	3
Public Speaking .....	3	3	3
English Elective .....	3	3	3
Manufacturing Processes .....	2	2	2
Mechanical Engrg. Laboratory ..	2	2	2
Military Science (Men) .....	2	2	2
Physical Education .....	1	1	1
	18	19	19

### CIVIL ENGINEERING

#### THE JUNIOR YEAR

	F	W	S
	QUARTER		
Mechanics of Materials .....	3	3	3
Reinforced Concrete .....	3	3	3
Principles of Economics .....	3	3	3
Advanced Surveying .....	3	3	3
D. C. Circuits & Machines .....	4	4	4
A. C. Circuits & Machines .....	4	4	4
Graphic Statics .....	3	3	3
Bridge Stresses .....	3	3	3
Mapping .....	2	2	2
Public Speaking .....	3	3	3
Approved Elective .....	3	3	3
	18	18	18

#### THE SENIOR YEAR

	F	W	S
	QUARTER		
Bridge Design .....	4	4	4
Economics of Public Utilities ..	3	3	3
Business Administration .....	3	3	3
Hydraulics and Hydraulics Lab. ....	3	3	3
Contracts .....	3	3	3
Sanitary Engineering .....	4	4	4
Engineering Geology .....	4	4	4
Engineering Construction .....	3	3	3
Highway Engineering .....	4	4	4
Masonry Construction .....	2	2	2
Materials Laboratory .....	2	2	2
Approved Elective .....	2	2	3
	18	18	18

## ELECTRICAL ENGINEERING

## THE JUNIOR YEAR

	F	W	S
QUARTER			
Differential Equations .....	3	...	...
Mechanics of Materials .....	3	3	...
Power Engineering .....	...	...	4
Materials Laboratory .....	...	1	...
Thermodynamics .....	...	5	...
A. C. Circuits .....	5	3	...
A. C. Machines .....	...	...	4
Electronics .....	...	...	5
Electrical Laboratory .....	1	1	2
Principles of Economics .....	3	3	...
*Accounting .....	3	...	...
*Advertising .....	...	3	...
*American Government .....	...	...	3

18 19 18

## THE SENIOR YEAR

	F	W	S
QUARTER			
Metallurgy .....	5	...	...
Contracts .....	3	...	...
A. C. Machines .....	3	4	...
Electrical Laboratory .....	2	2	2
Communication Engineering .....	...	4	...
Hydraulics & Hydraulics Lab. ....	...	...	5
Power Transmission .....	...	...	3
Economics (Production, Labor, Public Utilities) .....	3	3	3
Public Speaking .....	...	...	3
Approved Electives .....	3	5	3

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## MECHANICAL ENGINEERING

## THE JUNIOR YEAR

	F	W	S
QUARTER			
Mechanics of Materials .....	3	3	...
Industrial Metallurgy .....	5	...	...
Kinematics .....	...	...	5
Thermodynamics .....	...	5	...
Hydraulics & Hydraulics Lab. ....	...	...	5
D. C. Circuits & Machines .....	4	...	...
A. C. Circuits & Machines .....	...	4	4
Structural Materials Lab. ....	...	1	...
Mech. Engr. Lab. ....	...	...	1
Economic Principles .....	3	3	...
Approved Elective .....	3	3	3

18 19 18

## THE SENIOR YEAR

	F	W	S
QUARTER			
Machine Design .....	4	4	4
Industrial Engineering .....	5	...	...
Factory Planning .....	...	4	...
Aerodynamics .....	...	...	4
Steam Power Plants .....	4	...	...
Air Conditioning .....	...	4	...
Internal Combustion Engines .....	...	...	5
Contracts .....	3	...	...
Mech. Engr. Lab. ....	...	1	2
Seminar .....	...	2	...
Approved Elective .....	3	3	3

19 18 18

\* May be omitted by those taking Advanced Military Science.

## COURSES OF INSTRUCTION

## CIVIL ENGINEERING

*\*Dean Eckbard; Professor Puffer; Assistant Professor Douglas.*

1 ENGINEERING MATERIALS (2-0) *Two hours. W*

A brief descriptive course dealing with the materials used by engineers.

51, 52, 53 SURVEYING (3-3) *Four hours. F, W, S*

51 Elementary surveying and use of instruments.

52 Plane and topographic surveying.

53 Route surveying, for highways, railroads, etc.; theory of curves and earthwork calculations.

*Prerequisite:* Math.-Mech. 12; 51 for 52; 52 for 53.

54 ENGINEERING CAMP. *Three hours. S*

Three weeks summer field practice between sophomore and junior years. Fee \$6.00.

*Prerequisite:* 52.

101 MAPPING. (0-4) *Two hours. F*

Plotting of map from notes taken at Engineering Camp.

*Prerequisite:* 54.

102 ADVANCED SURVEYING. (1-6) *Three hours. S*

Field and office problems.

*Prerequisite:* 53.

103 GRAPHIC STATICS. (0-6) *Three hours. F*

Graphic determination of stresses in structures.

*Prerequisite:* Math.-Mech. 24.

104 BRIDGE STRESSES. (2-3) *Three hours. W*

*Prerequisite:* Math.-Mech. 131.

105 BRIDGE STRESSES. (3-0) *Three hours. S*

*Prerequisite:* 104.

106 REINFORCED CONCRETE. (2-2) *Three hours. S*

Theory and design.

*Prerequisite:* Math.-Mech. 131, 132.

151 CONTRACTS AND ENGINEERING RELATIONS (3-0) *Three hours. F*

Study of contract law and professional ethics.

\* Deceased, December 28, 1945.

- 161 HYDRAULICS. (4-0) *Four hours. S*  
The mechanics of liquids.  
*Prerequisite:* Math.-Mech. 24, 25.
- 162 HYDRAULICS LABORATORY. (0-3) *One hour. S*  
Given in conjunction with 161. Fee \$2.00.
- 163-164 WATER POWER ENGINEERING. (3-0) *Three hours.*  
Two quarters. Elective course. (Not offered in 1945-46.)  
*Prerequisite:* 161, 162.
- 165, 166 SANITARY ENGINEERING. (4-0) *Four hours. W, S*  
165 Design, construction, maintenance, and operation of public water supplies.  
166 Design, construction, maintenance, and operation of sewerage systems and sewage treatment plants.
- 171 HIGHWAY ENGINEERING. (3-2) *Four hours. S*  
Design, construction, and maintenance of modern highways.  
*Prerequisite:* Math.-Mech. 131, 132.
- 172 MATERIALS LABORATORY. (0-6) *Two hours. S*  
Testing of engineering materials and soils. Fee \$4.00.  
*Prerequisite:* Math.-Mech. 131, 132.
- 173-174 RAILROAD ENGINEERING. (3-0) *Three hours.*  
Elective course. (Not offered in 1945-46.)
- 175-176 TRAFFIC ENGINEERING. (3-0) *Three hours.*  
Elective course. (Not offered in 1945-46.)
- 177, 178, 179 GEODESY.  
Elective course.
- 181, 182 BRIDGE DESIGN. (0-8) *Four hours. F, W*  
181 Design of truss and girder bridges, stress sheets, shop drawings, and estimates.  
182 Continuation of 181.  
*Prerequisite:* 103, 104, 105; 181 for 182.
- 183 ENGINEERING CONSTRUCTION. (3-0) *Three hours. W*  
Foundations of structures, bearing power of soils, and construction methods.  
*Prerequisite:* Math.-Mech. 131, 132.
- 184, 185 MASONRY CONSTRUCTION. (0-4) *Two hours. F, W*  
184 Design of dams, retaining walls, and other masonry structures.  
185 Continuation of 184.  
*Prerequisite:* 106; 184 for 185.

# ELECTRICAL ENGINEERING

*Professor McKee; Associate Professor Buchanan; Assistant Professors \*Shorey and \*Williams*

- 51 ELEMENTS OF ELECTRICAL ENGINEERING. (5-0) *Five hours. F*  
*Prerequisite:* credit or enrollment in Math. 21.
- 52, 53 DIRECT CURRENT MACHINES. (3-0) *Three hours. W, S*  
*Prerequisite:* 51; 52 for 53.
- 54, 55 ELECTRICAL LABORATORY. (0-3) *One hour. W, S*  
 Fee \$2.00.  
*Prerequisite:* 51; 54 and credit or enrollment in 53 for 55.
- 101 DIRECT CURRENT CIRCUITS AND MACHINES. (3-3) *Four hours. F*  
 Fee \$2.00.  
*Prerequisite:* Math. 23; Physics 11-12-13.
- 102 ALTERNATING CURRENT CIRCUITS AND MACHINES. (3-3)  
 Fee \$2.00. *Four hours. W*  
*Prerequisite:* 101.
- 103 ALTERNATING CURRENT MACHINES. (3-3) *Four hours. S*  
 Fee \$2.00.  
*Prerequisite:* 102.
- 104 ALTERNATING CURRENT CIRCUITS. (5-0) *Five hours. F*  
*Prerequisite:* 51; Math. 23.
- 105 ALTERNATING CURRENT CIRCUITS. (3-0) *Three hours. W*  
*Prerequisite:* 104.
- 106 ALTERNATING CURRENT MACHINES. (4-0) *Four hours. S*  
*Prerequisite:* 105.
- 107-108 ELECTRICAL LABORATORY. (0-3) *One hour. F, W*  
 Fee \$2.00.  
*Prerequisite:* 53, 55; 107 and credit or enrollment in 105 for 108.
- 109 ELECTRICAL LABORATORY. (0-6) *Two hours. S*  
 Fee \$4.00.  
*Prerequisite:* 108 and credit or enrollment in 106.
- 110 ELECTRONICS. (4-3) *Five hours. S*  
 Fee \$2.00.  
*Prerequisite:* 103 or 104; Physics 11-12-13.

\* Absent on leave, 1945-46.

- 151 ALTERNATING CURRENT MACHINES. (3-0) *Three hours. F*  
*Prerequisite:* 106.
- 152 ALTERNATING CURRENT MACHINES. (4-0) *Four hours. W*  
*Prerequisite:* 151.
- 153, 154, 155 ELECTRICAL LABORATORY. (0-6) *Two hours. F, W, S*  
Fee \$4.00.  
*Prerequisite:* 109 and credit or enrollment in 151; 153 and credit or enrollment in 152 for 154; 154 for 155.
- 156 POWER TRANSMISSION. (3-0) *Three hours. S*  
*Prerequisite:* 105.
- 157 COMMUNICATION ENGINEERING. (3-3) *Four hours. W*  
Long lines in steady state, networks and loading. Fee \$2.00.  
*Prerequisite:* 105.
- 158 COMMUNICATION ENGINEERING. (3-3) *Four hours. S*  
Fundamental principles of radio transmitting and receiving systems.  
Fee \$2.00.  
*Prerequisite:* 105; 110.
- 159 INDUSTRIAL ELECTRONICS. (3-3) *Four hours. F*  
A continuation of 110 with emphasis on control and power applications. Fee \$2.00.  
*Prerequisite:* 110.
- 160 POWER STATIONS. (3-0) *Three hours. W*  
The electrical engineering features of steam, water, and oil engine power plants.  
*Prerequisite:* enrollment in 152 or credit in 103.
- 161 TRANSIENT PHENOMENA. (3-3) *Four hours. S*  
The mathematical development of common voltage and current transients with experimental check by means of the oscillograph.  
Fee \$2.00.  
*Prerequisite:* 105.
- 170, 171, 172 SPECIAL TOPICS. (2-3) *Three hours. F, W, S*  
Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines, or systems. May be elected for one, two, or three quarters.  
*Prerequisite:* 53; 105.

## MATHEMATICS AND MECHANICS

*Professor Bullard; Assistant Professor Millington*

**B SOLID GEOMETRY.** *Two hours. F*

Required of those who do not present solid geometry for entrance.  
Fee \$10.00. No degree credit.

**11, 12, 13 FRESHMAN MATHEMATICS.** *F, W, S*

11 College Algebra *Five hours.*

12 Plane and spherical trigonometry. *Four hours.*

13 Plane and solid analytical geometry. *Five hours.*

*Prerequisite:* 11 and 12 for 13.

**21-22-23 CALCULUS.** *Three hours. F, W, S*

The fundamentals of differential and integral calculus with emphasis on the technique of differentiation and integration and the applications of calculus to problems in mathematics, physics, and other sciences.

*Prerequisite:* 11, 12, 13.

**24 THEORETICAL MECHANICS (STATICS).** *Three hours. W*

The fundamental concepts, the resultant of a force system by graphical and analytical methods, conditions of equilibrium with application to cranes, trusses, and flexible cables, center of gravity, moment of inertia.

*Prerequisite:* 21.

**25 THEORETICAL MECHANICS (KINETICS).** *Three hours. S*

The equations of motion of a body under the action of a force system, the principles of work and energy, impulse and momentum.

*Prerequisite:* 22, 24.

**110, 111, 112 DIFFERENTIAL EQUATIONS.** *Three hours. F, W, S*

110 Solution of ordinary differential equations, introducing operational methods.

111 Solution of partial differential equations; series solutions.

112 Topics of analysis especially useful in mathematical physics and engineering.

*Prerequisite:* 21, 22, 23 for 110; 110 for 111; 111 for 112.

**131, 132 MECHANICS OF MATERIALS.** *Three hours. F, W*

The behavior of elastic bodies, with particular attention to the beam, shaft, and column, including simple stress and strain, combined stresses, the elastic curve, and strain energy.

*Prerequisite:* 23, 24.



## MECHANICAL ENGINEERING

*Professor Chapman; Associate Professor Sidle; Assistant Professor Osgood; Mr. Tutbill.*

- 1 MECHANICAL DRAWING. (0-9) *Three hours. F*  
Practice in the use of drawing instruments; lettering, geometric construction, orthographic projection, and sketching.
- 2 MECHANICAL DRAWING (0-6) *Two hours. W*  
Practice in auxiliary projection, sectional views, dimensioning, and drawing of machine elements.  
*Prerequisite: 1.*
- 3 MECHANICAL DRAWING. (0-9) *Three hours. S*  
Practice in constructing intersections and developed surfaces. Detail and assembly drawings.  
*Prerequisite: 2.*
- 51, 52, 53 MANUFACTURING PROCESSES. (0-6) *Two hours. F, W, S*  
51 Principles of metal machining and forming. Fee \$4.00.  
52 Principles of metal casting and welding. Fee \$4.00.  
53 Methods, jigs, fixtures, tooling, and gauges for interchangeable manufacturing. Fee \$4.00.  
*Prerequisite: 3 for 51 and 52; 51 for 53.*
- 71 MECHANICAL ENGINEERING LABORATORY. (0-6) *Two hours. F*  
Pressure, temperature, speed, power, and area measuring instruments. Experiments in calorimetry. Fee \$4.00.  
*Prerequisite: Chemistry 3.*
- 101 INDUSTRIAL METALLURGY. (3-6) *Five hours. F*  
The fundamentals of ferrous and non-ferrous metallurgy. Physical and metallographic characteristics correlated with the theory and practice of industrial metallurgical processes. Fee \$4.00.  
*Prerequisite: Chem. 3; Physics 13.*
- 112 THERMODYNAMICS. (5-0) *Five hours. W*  
The fundamental principles of engineering thermodynamics and the application of these principles to heat engine, air compression, and refrigeration cycles and to heat transfer.  
*Prerequisite: Physics 13; Math.-Mech. 23, 25; 71.*

116 POWER ENGINEERING. (3-3)

Four hours. S

A short course in the fields of steam and internal combustion engine power. Analysis of the design, operation, and performance of characteristic equipment. Fee \$2.00.

*Prerequisite:* 112.

133 KINEMATICS. (3-6)

Five hours. S

The analysis of displacements, velocities, and accelerations in machines and the application of such analysis to cams, gears, and other mechanisms.

*Prerequisite:* 3: Math.-Mech. 25.

143 MECHANICAL ENGINEERING LABORATORY. (0-3)

One hour. S

Experiments to verify thermodynamic principles. Fuel and lubricant tests. Fee \$2.00.

*Prerequisite:* 112.

151, 152, 153 MACHINE DESIGN. (3-3)

Four hours. F, W, S

151 Mathematical and graphical methods for determination of stresses in machine parts.

152 Design of elements of machines taking into consideration stresses, deflections, and wear as affected by various service conditions.

153 Design of complete machines considering arrangement of elements and various methods of fabrication.

*Prerequisite:* 133 and Math.-Mech. 132 for 151; 151 for 152; 152 for 153.

155 MECHANICAL VIBRATIONS.

Three hours.

An advanced course in the field of machine design with special emphasis on problems of vibrations. Topics include causes of vibrations, methods of study of vibratory motion, determination of vibration stresses, and methods of balancing and damping. Elective (M.E.) seniors by permission.

161 STEAM POWER PLANTS. (3-3)

Four hours. F

The thermodynamic and mechanical principles of the design, installation, operation, and performance of steam power plant equipment. Fee \$2.00.

*Prerequisite:* 112.

162 AIR CONDITIONING. (3-3)

Four hours. W

The applications of the fundamental principles of thermodynamics to the design and performance of air conditioning equipment and systems for residences, public buildings, and industrial plants. Fee \$2.00.

*Prerequisite:* 112.

- 163 INTERNAL COMBUSTION ENGINES. (4-3) *Five hours. S*  
The thermodynamic and mechanical principles of the design, operation, and performance of spark ignition and compression ignition engines and combustion turbines. Fee \$2.00.  
*Prerequisite:* 112.
- 165 ADVANCED HEAT ENGINES. *Three hours.*  
Advanced study in theoretical thermodynamics with applications in specific types of heat engines according to the interests of the students. Elective (M.E.) seniors by permission.
- 168 MECHANICAL ENGINEERING LABORATORY. (0-3) *One hour. W*  
Experiments illustrating operating characteristics of steam power, air conditioning, and refrigeration apparatus. Fee \$2.00.  
*Prerequisite:* 161.
- 169 MECHANICAL ENGINEERING LABORATORY. (0-6) *Two hours. S*  
Comprehensive performance tests of mechanical equipment. Fee \$4.00.  
*Prerequisite:* 168.
- 171 INDUSTRIAL ENGINEERING. (3-6) *Five hours. F*  
The principles of management and their applications to industrial organizations and industrial operations. Fee \$4.00.  
*Prerequisite:* 52, 53.
- 172 FACTORY PLANNING. (2-6) *Four hours. W*  
The systematic analysis of the requirements of a factory for a specific purpose. Work includes the consideration of such items as location, plant design, equipment requirements, general layout, and production planning.  
*Prerequisite:* 171.
- 183 AERODYNAMICS. (4-0) *Four hours. S*  
The application of the principles of the mechanics of fluids to the airplane, to fan and propeller characteristics, and to the flow of gases and vapors.  
*Prerequisite:* C.E. 161, 162.
- 192 SEMINAR. (2-0) *Two hours. W*  
Discussions of the Mechanical Engineering Profession, the ethics, responsibilities, and status of members of the profession, and timely activities of present-day practice. Current issues of pertinent publications are used as collateral reading and as guides in the study and discussion of contemporary progress in the field.

## 195 SPECIAL PROBLEMS.

*Two or three hours.*

A study and investigation on a topic or problem of special interest to the student. Formal submission of results in thesis form required. Problems must be approved by the Chairman of the Department before election of the course. Elective (M.E.) seniors by permission.

## The College of Agriculture

The College of Agriculture performs four public functions: it teaches resident students; it investigates problems; it disseminates information; it renders other services. These four lines of work are carried out respectively by the resident teaching division; the research division, or Vermont Agricultural Experiment Station; the extension division, or Vermont Agricultural Extension Service; and the related services division.

The resident teaching division offers professional curricula in Agriculture and Home Economics. It aims to provide for young men and women educative experiences which will enable them to become successful farmers or homemakers, teachers in secondary schools or agricultural extension workers, or specialists engaged in teaching, research, or industrial or professional work in their chosen fields.

The Agricultural Experiment Station has as its essential functions to conduct research in Agriculture and Home Economics, to administer certain regulatory statutes, and to publish the results of such work.

The Vermont Agricultural Extension Service is a cooperative undertaking of the State of Vermont, the College of Agriculture, the United States Department of Agriculture, and the farm bureaus of the several counties of the State. It has a State staff, with headquarters at the University, and a staff of county extension agents in each county. Its purpose is "to aid in diffusing among the people . . . useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same." It works primarily with the rural people of the State, including both adults and children.

The related services division renders various services in the fields of agriculture and home economics, such as inspection of feed, seeds, and fertilizer; analysis of soils, milk, and other agricultural products on request; diagnosis of diseases of plants, poultry, and other livestock; and conduct of short courses and educational conferences.

## AGRICULTURE

### THE CURRICULUM IN AGRICULTURE

The curriculum in Agriculture, leading to the degree of Bachelor of Science in Agriculture, includes required and elective courses. The required courses are largely in the sciences, literature, and other subjects which are essential in providing a broad educational base for the more technical agricultural courses. The elective courses are largely in the field of agriculture, but some may be chosen from the many non-agricultural subjects. The agricultural courses are designed to provide, first, training of a general nature as preparation for farming, secondary school teaching, or county extension work, and secondly, concentrated study in agricultural economics, agricultural education, agronomy, animal and dairy husbandry, botany, horticulture, and poultry husbandry, as preparation for industrial and professional positions and for advanced training in these fields.

Every candidate for the degree shall complete the courses listed below, and present a total of 196 quarter hours of credit, exclusive of courses required in Military Science and Physical Education. A minimum of 90 quarter hours of credit must be in agricultural subjects. To insure reasonable concentration in the student's field of interest, and in order that he may have a well-balanced and integrated educative experience, electives must be selected with the approval of the student's faculty advisor, to complete the total requirement.

### OUTLINE OF THE AGRICULTURAL CURRICULUM

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
F W S QUARTER				F W S QUARTER			
*English Composition .....	3	3	3	English Lit., American Lit., or Periodical Writing .....	3	3	3
Elementary Botany .....	4	4	...	Physics .....	3	3	3
General Bacteriology .....	...	...	4	Inorganic Chemistry .....	5	5	...
†Mathematics A, 1, 2 .....	(3)	3	3	Outlines of Organic Chem. ....	...	...	6
Introduction to Zoology .....	4	...	...	Economic Principles .....	3	3	...
Introductory Dairy Science .....	...	4	...	Elective .....	3	3	3
General Field Crops .....	...	...	3	Military Science (Men) .....	2	2	2
Elective .....	3	3	3	Physical Education .....	1	1	1
Military Science (Men) .....	2	2	2				
Physical Education .....	1	1	1				
THE JUNIOR YEAR				THE SENIOR YEAR			
General Psychology .....	3	3	...	Agricultural Philosophy .....	3	...	...
Electives .....	...	...	...	Public Problems .....	...	...	3
				Electives .....	...	...	...

\* Not required if English placement test is passed.

† Mathematics A not required if placement test is passed. No college credit.

## COURSES OF INSTRUCTION

In any year, courses chosen from those listed may be given to meet the needs of students in residence. Normally courses will not be given for fewer than five students. With the termination of the emergency, the full offering of courses here outlined will be restored as rapidly as the increase in student enrollment permits.

## AGRICULTURAL ECONOMICS

*Associate Professor Adams; Assistant Professors Carter and Williams*

- 1 AGRICULTURAL COOPERATION. *Three hours. W*  
The nature and development of cooperative business associations, their organization, financing, and business management. Lectures, laboratory. (Alternate years, 1945-46.)  
*Prerequisite:* sophomore standing. *Mr. Adams*
- 2-3 FARM MANAGEMENT. *Three hours, W; Six hours, S*  
The organization and operation of a successful farm business. Lectures; laboratory. Fee \$2.50, spring quarter.  
*Prerequisite:* junior standing. *Mr. Williams*
- 4 FARM CREDIT AND ACCOUNTS. *Three hours. F*  
The types, keeping, and use of farm records and accounts. The lending practices and problems of agricultural credit agencies. Lectures, laboratory. (Alternate years, 1946-47.)  
*Prerequisite:* junior standing. *Mr. Williams*
- 7 MARKETING FARM PRODUCTS. *Three hours. F*  
The distribution of Vermont farm products and the problems involved. Lectures, laboratory.  
*Prerequisite:* junior standing. *Mr. Adams*
- 8 MARKETING DAIRY PRODUCTS. *Three hours. W*  
Economic aspects of marketing dairy products, especially Vermont milk and cream. Lectures, laboratory. Fee \$1.00. (Alternate years, 1946-47.)  
*Prerequisite:* junior standing. *Mr. Adams*
- 12 PUBLIC PROBLEMS OF AGRICULTURE. *Three hours. S*  
Agricultural population, land utilization, prices, and legislation of direct concern to farm interests. Lectures, discussions, laboratory.  
Required of seniors. *Mr. Carter*

- 16 RURAL SOCIOLOGY. *Three hours. F*  
The groups, organizations, institutions, and social forces at work in rural areas. Lectures, discussions. (Alternate years, 1945-46.)  
*Prerequisite:* junior standing. *Mr. Carter*
- 17 RURAL COMMUNITY ORGANIZATION. *Three hours. W*  
The technique of community organization, including rural leadership. Lectures, discussions. (Alternate years, 1946-47.)  
*Prerequisite:* junior standing. *Mr. Carter*
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

## AGRICULTURAL EDUCATION

*Associate Professor Martin*

- 2 RURAL EDUCATION. *Three hours. W*  
The organization of rural education, with emphasis on aims, principles, and methods.  
*Prerequisite:* junior standing. *Mr. Martin*
- 6 ADULT EDUCATION. *Three hours. S*  
The principles underlying successful programs of adult education. Determination of needs, program planning, and organization of units on selected programs. Lectures, laboratory. (Alternate years, 1945-46.)  
*Prerequisite:* junior standing. *Mr. Martin*
- 7 VOCATIONAL METHODS. *Five hours. F*  
Methods for teachers of vocational agriculture, with consideration also of program planning and organization. Lectures, laboratory.  
*Prerequisite:* senior standing. *Mr. Martin*
- 8 TEACHING FARM SHOP. *Three hours. W*  
Objectives, course construction, lesson planning, shop management, selection and arrangement of shop equipment, and instruction in wood, concrete, metal, and leather working skills. Lectures, laboratory.  
*Prerequisite:* senior standing.
- 12 EXTENSION METHODS. *Three hours. S*  
Methods and technique of extension teaching. Lectures, laboratory, field work. (Alternate years, 1946-47.)  
*Prerequisite:* senior standing.
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

## AGRICULTURAL ENGINEERING

- 1 GENERAL FARM ENGINEERING. *Three hours. F*  
An introductory course including units on gas engines, farm structures, concrete, farm water supply, and farm mechanics. Lectures, laboratory.
- 2 FARM STRUCTURES. *Three hours. W*  
The material, functional design, and maintenance of farm buildings and equipment. Lectures, laboratory. (Alternate years, 1946-47.)
- 5 FARM ELECTRICITY. *Three hours. W*  
Practical training in the use of electricity on the farm and in the farm home; wiring, motors, farm appliances, safe use of electrical energy. Lectures, laboratory. (Alternate years, 1947-48.)
- 7 DAIRY PLANT ENGINEERING. *Three hours. F*  
The theory and practical problems of selecting, installing, and servicing equipment in plants, and processing milk and milk products. Lectures, laboratory. (Alternate years, 1947-48).  
*Prerequisite:* junior standing.
- 8 FARM POWER UTILIZATION. *Two hours. W*  
The use of power as applied to farm machinery and equipment. Lectures, laboratory.  
*Prerequisite:* junior standing.
- 9 SERVICING FIELD MACHINERY. *Two hours. S*  
Practical training in the care and repair of farm machinery. Lectures, laboratory.  
*Prerequisite:* junior standing.
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

## AGRONOMY

*Professor Miller*

- 1 GENERAL FIELD CROPS. *Three hours. S*  
Introduction to field crops common in Vermont and throughout the United States, including science, practice, and uses. Lectures, laboratory, field trips. Fee \$2.50. Required of freshmen.



- 2 FORAGE AND PASTURE CROPS. *Three hours. F*  
Hay and pasture grasses, legumes, seeding mixtures, fertilization, and management. Lectures, laboratory, field trips. Fee \$2.50.
- 3 SOIL GEOLOGY. *Three hours. F*  
Origin, nature, and classification of soil materials; formation, survey. Lectures, laboratory, field trips. Fee \$2.50.  
*Prerequisite:* sophomore standing.
- 4 SOIL PHYSICS. *Three hours. W*  
Texture, structure, moisture, and temperature studies. Lectures, laboratory, field trips. Fee \$2.50.  
*Prerequisite:* sophomore standing.
- 5 SOIL CONSERVATION. *Three hours. F*  
Types of erosion and control; effect on general welfare; farm drainage. Lectures, laboratory, field trips. (Alternate years, 1945-46.)  
*Prerequisite:* junior standing.
- 6 PLANT BREEDING. *Three hours. F*  
Principles of plant improvement; selection, hybridization, origin of species and varieties; greenhouse and field plot techniques. Lectures, laboratory. (Alternate years, 1946-47.)  
*Prerequisite:* Botany 1-2 or 4-5-6; junior standing.
- 7 FERTILIZERS. *Three hours. S*  
Principles of plant nutrition; nutrient deficiency symptoms; grade formulation, rates and ratios for specific crops. Lectures, laboratory. Fee \$2.50. (Alternate years, 1946-47.)
- 100 ADVANCED FIELD CROPS. *Three hours. S*  
Field inspection of farms practicing improved pasture and crop programs; study of questions from farmers relative to crops, crop rotation; field testing and plot technique. Thesis required. Lectures, laboratory, field trips. (Alternate years, 1945-46.)  
*Prerequisite:* 1; sophomore standing.
- 101 SOIL CHEMISTRY. *Three hours. S*  
Soil reaction, effect of major and minor elements, organic matter, biology. Lectures, laboratory. Fee \$2.50.  
*Prerequisite:* 4; sophomore standing.
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

# ANIMAL AND DAIRY HUSBANDRY

*Professor Ellenberger; Associate Professors Dickey and Newlander*

- 1 **INTRODUCTORY DAIRY SCIENCE.** *Four hours. W*  
General portrayal of the elements of dairying as a foundation for other dairy courses and for those who wish to take only one course in this field. Lectures, recitations, laboratory. Fee \$2.50. Required of freshmen.  
*Mr. Dickey*
- 2, 3 **LIVESTOCK.** *Three hours. W, S*  
Types, breeds, market classes, and fundamentals of judging. Lectures, recitations, and practice.  
2 Dairy Livestock. *Mr. Dickey*  
3 Livestock other than Dairy.
- 4 **DAIRY BACTERIOLOGY.** *Five hours. F*  
Relation of micro-organisms to milk and milk products, methods of examination and control. Lectures, recitations, laboratory. Fee \$4.00.  
*Prerequisite: sophomore standing. Mr. Newlander*
- 5 **ANIMAL NUTRITION.** *Three hours. F*  
Nutrients, their function and utilization, and requirements for growth, reproduction, lactation, etc. Lectures and recitations.  
*Prerequisite: junior standing. Mr. Ellenberger*
- 6 **FEEDS AND FEEDING.** *Three hours. S*  
Feeds, rations, and feeding practice. Lectures, recitations, laboratory.  
*Prerequisite: junior standing. Messrs. Ellenberger and Newlander*
- 7 **BREEDS AND BREEDING.** *Three hours. S*  
Practical applications of the principles of genetics to the breeding of farm animals. Lectures, recitations, laboratory.  
*Prerequisite: Botany 120; junior standing. Mr. Dickey*
- 8 **DAIRY HERD MANAGEMENT.** *Three hours. F*  
Successful and profitable management of the dairy herd. Lectures, recitations, laboratory. (Alternate years, 1945-46.)  
*Prerequisite: sophomore standing. Mr. Dickey*
- 9 **JUDGING DAIRY PRODUCTS.** *Three hours. S*  
Quality, market standards, and scoring. Lectures, laboratory. Fee \$4.00.  
*Prerequisite: sophomore standing. Mr. Newlander*

- 100 ADVANCED STOCK JUDGING. *Three hours. S*  
Instruction and practice in judging with emphasis on dairy cattle.  
Lectures, recitations, practice.  
*Prerequisite: 2.* *Mr. Dickey*
- 101 HORSE AND MEAT MANAGEMENT. *Three hours. F*  
Production and management of horses, sheep, swine, and beef cattle.  
Lectures, recitations, laboratory. Fee \$2.50. (Alternate years, 1946-47.)  
*Prerequisite: 3; sophomore standing.* *Mr. Dickey*
- 102 TESTING DAIRY PRODUCTS. *Three hours. W*  
Tests for fat, acidity, moisture, solids, and adulterations. Lectures, recitations, laboratory. Fee \$2.50.  
*Prerequisite: 1; sophomore standing.* *Mr. Newlander*
- 103 DAIRY CHEMISTRY. *Three hours. S*  
Composition and physical properties of milk and its products. Analyses and control. Lectures, recitations, laboratory. Fee \$2.50.  
*Prerequisite: 1; sophomore standing.* *Mr. Newlander*
- 104-105 MARKET MILK. *Three hours. F, W*  
Quality production, processing, and distributing. Lectures, recitations, laboratory. Fee \$4.00 per quarter.  
*Prerequisite: 4, 102, 103; junior standing.*
- 106, 107, 108 DAIRY MANUFACTURE. *Three hours. F, W, S*  
The theory and practice of manufacturing dairy products. Lectures, recitations, laboratory. Fee \$5.00 per quarter.  
106 Ice Cream.  
107 Cheese.  
108 Butter; condensed, evaporated, and dried milk.  
*Prerequisite: 4, 102, 103; junior standing.*
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite: junior standing and permission of the department.*

## ANIMAL PATHOLOGY

*Professor Waller*

- 2 POULTRY HYGIENE AND SANITATION. *Two hours. W*  
Hygienic and sanitary measures used in the incubation, brooding, and rearing of poultry. Lectures, laboratory. (Alternate years, 1946-47.)

- 3 POULTRY DISEASES. *Four hours. W*  
The causes, symptoms, and preventions of parasitic, infectious, and nutritional diseases of poultry. Demonstrations and necropsies. Lectures, laboratory. Fee \$2.50. (Alternate years, 1945-46.)  
*Prerequisite:* Botany 117; sophomore standing.
- 4 DISEASES OF FARM ANIMALS. *Three hours. W*  
The causes, symptoms, and prevention of diseases of farm animals. Lectures, demonstrations, necropsies. (Alternate years, 1945-46.)  
*Prerequisite:* Botany 117; sophomore standing.
- 5 ANATOMY AND PHYSIOLOGY. *Three hours. W*  
The various anatomical structures and their physiological functions. Lectures, laboratory. Fee \$2.50. (Alternate years, 1946-47.)  
*Prerequisite:* Zoology 3; sophomore standing.
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

## BOTANY AND FORESTRY

*Associate Professors Marvin, \*Adams, Dole, and Gersboy; Assistant Professor Taylor*

- 1-2 ELEMENTARY BOTANY. (2-4) *Four hours. F, W*  
Fundamental principles of biology illustrated by the morphology, physiology, and reproduction of vascular plants. The aim is to give, through a study of its forms and functions, an understanding of the plant as a dynamic unit. Fee \$1.50 per quarter.  
*Messrs. Marvin, Dole, and Taylor*
- 3 PLANT EVOLUTION. (2-4) *Four hours. S*  
A comparative study illustrating the progression of plant types in an evolutionary series. Fee \$1.50.  
*Prerequisite:* 1-2. *Messrs. Marvin, Dole, and Taylor*
- 4-5-6 GENERAL BOTANY. (2-4) *Four hours. F, W, S*  
Living organisms as illustrated by the origin, relationships, physiology, growth, and reproduction in the plant kingdom. Botany as it exemplifies biological principles primarily in their relation to cultural progress. Fee \$1.50 per quarter. *Mr. Dole*
- 101-102 PLANT PHYSIOLOGY. (2-4) *Four hours. F, W*  
Experimental study of the growth and functions of the higher plants. Fee \$2.00 per quarter.  
*Prerequisite:* 1-2 or 4-5-6. *Mr. Marvin*

\* Absent on leave: Military Service.

## 104-105 AGROSTOLOGY. (1-4)

*Three hours. F, W*

The grass flower and inflorescence, as exemplified in local grass flora; the economic significance of grasses, cereals, and fodder plants. Identification in the laboratory of living and herbarium material; the systematic treatment and phylogeny of grasses. Fee \$1.50 per quarter. (Alternate years, 1946-47.)

*Prerequisite:* 1-2 or 4-5-6.

*Mr. Dole*

## 107-108-109 PLANT MORPHOLOGY. (1-4)

*Three hours. F, W, S*

Plant types representative of each of the larger phylogenetic groups, with special emphasis on the evolutionary development of vegetative and reproductive structures. Life cycles, and an introduction to the phylogenetic system of classification. Quarters may be taken in any sequence. Fee \$1.50 per quarter. (Alternate years, 1946-47.)

*Prerequisite:* 1-2, 3 or 4-5-6.

*Messrs. Marvin, Dole, and Taylor*

## 111 MICROTECHNIQUE. (2-4)

*Four hours. S*

Field and laboratory preparation of biological materials for microscopic study, including smear and microtome sectioning technique. The use of the microtome, the oil immersion microscope, the accessories used in drawing and in photomicrography. Fee \$4.00.

*Prerequisite:* 1-2 or 4-5-6; Zoology 1 and either 2 or 3.

*Mr. Gershoy*

## 112 ECOLOGY. (2-2)

*Three hours. S*

The physiological factors of habitats and their effect on plant structure and distribution.

*Prerequisite:* 1-2 or 4-5-6.

*Mr. Dole*

## 113 PLANT PATHOLOGY. (2-4)

*Four hours. F*

Conditions predisposing the plant to disease; elementary study of the more common diseases of bacterial, fungal, and physiological nature, including the corrective influence of fungicides and fertilizers. Fee \$2.00.

*Prerequisite:* 1-2 or 4-5-6.

*Mr. Gershoy*

## 117 GENERAL BACTERIOLOGY. (2-4)

*Four hours. W, S*

The principles and technique of growing and studying bacteria and other micro-organisms. Fee \$4.00.

*Prerequisite:* 1-2 or 4-5-6.

*Mr. Taylor*

## 120-121 GENETICS. (1-4)

*Three hours. F, W*

The basic principles of modern plant and animal breeding; the elementary concepts of variation, inheritance, and cytogenetics. Fee \$4.00 per quarter.

*Prerequisite:* 1-2 or 4-5-6; Zoology 1 and either 2 or 3.

*Mr. Gershoy*

- 122 PLANT ANATOMY AND HISTOLOGY. (1-6) *Four hours. F*  
 A comparative study of the cell wall of plant tissues. The ontogenetic development of the conducting, supporting, and protective tissues of the seed plants is stressed. Fee \$4.00. (Alternate years, 1946-47.)  
*Prerequisite:* 1-2 or 4-5-6; Chemistry 1-2. *Mr. Gershoy*
- 125 ECONOMIC BOTANY....(2-4) *Four hours. F*  
 The distribution and special functions of drug, fiber, food, and other economic plants with emphasis on their biology and processing. Fee \$2.00.  
*Prerequisite:* 1-2 or 4-5-6. *Mr. Taylor*
- 128-129 CYTOLOGY. (1-4) *Three hours. F, W*  
 The protoplast of living organisms, especially the protoplasmic activities of cells of the higher groups; the somatic and meiotic divisions, gametogenesis, syngamy, and substitute methods of reproduction; the interrelation of chromosomal and genetic phenomena. Fee \$2.00 per quarter.  
*Prerequisite:* 111; Chemistry 1-2 and 6. *Mr. Gershoy*
- 131-132 TAXONOMY AND SYSTEMATIC BOTANY. (1-4) *Three hours. F, W*  
 The principles of taxonomy as applied to modern seed-plant flora, exemplified in living plants and herbarium material; an historical survey of significant phylogenetic schemes and modern systems of classification; the species concept, variation and discontinuity, speciation. Fee \$1.50 per quarter. (Alternate years, 1945-46.)  
*Prerequisite:* 1-2, 3 or 4-5-6. *Mr. Dole*
- 152 DENDROLOGY AND SILVICULTURE. *Three hours. F*  
*Prerequisite:* 1-2, 3 or 4-5-6; junior standing. *Mr. Adams*
- 153 UTILIZATION OF FARM WOODLAND PRODUCTS. *Three hours. W*  
*Prerequisite:* 152; junior standing. *Mr. Adams*
- 154 WOODLOT MANAGEMENT. *Three hours. S*  
*Prerequisite:* 153; junior standing. *Mr. Adams*
- 155 MENSURATION. *Three hours. F*  
*Prerequisite:* 154; senior standing. *Mr. Adams*
- 159-160 SILVICS. *Three hours. W, S*  
*Prerequisite:* 101-102; senior standing. *Mr. Adams*
- 170, 171, 172 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

## HORTICULTURE

*Associate Professor Blasberg; Assistant Professor Meader*

- 1 GENERAL HORTICULTURE. *Four hours. S*  
 The adaptation of horticultural plants to soil and climatic conditions.  
 Lectures, laboratory. Fee \$2.50. *Mr. Blasberg*
- 2 SMALL FRUIT CULTURE. *Three hours. S*  
 The fundamental principles underlying plant growth and fruit production and the relation of these principles to practice. Lectures, laboratory. Fee \$2.00. (Alternate years, 1946-47.) *Mr. Meader*
- 3 VEGETABLE CULTURE. *Three hours. S*  
 The characteristics of some more important crops and their responses to various conditions of environment. Lectures, laboratory. Fee \$2.00. (Alternate years, 1945-46.) *Mr. Blasberg*
- 4 PLANT PROPAGATION. *Three hours. S*  
 The theory and practice of multiplying plants by various methods. Lectures, laboratory. Fee \$2.50. (Alternate years 1945-46.)  
*Prerequisite:* Botany 1-2 or 4-5-6; sophomore standing. *Mr. Meader*
- 5 TREE FRUITS. *Four hours. S*  
 The principles and facts involved in modern production of tree fruits. Lectures, laboratory. Fee \$2.50. (Alternate years, 1946-47.)  
*Prerequisite:* Botany 1-2 or 4-5-6; sophomore standing. *Mr. Blasberg*
- 100 SYSTEMATIC POMOLOGY. *Three hours. F*  
 Systematic study of the standard fruit varieties: their origin, classification, and identification. Lectures, laboratory. Fee \$2.50.  
*Prerequisite:* 5; junior standing. *Mr. Blasberg*
- 150, 151, 152 SPECIAL INVESTIGATIONS. *Three to twelve hours.*  
*Prerequisite:* junior standing and permission of the department.

## POULTRY HUSBANDRY

*Associate Professor Henderson*

- 1 GENERAL POULTRY HUSBANDRY. *Four hours. F*  
 The principles of poultry husbandry and their application to general farm conditions. Lectures, laboratory.
- 2 POULTRY FARM MANAGEMENT. *Three hours. W*  
 Farm layouts and study of successful poultry farms. Inspection trips. Lectures, laboratory. Fee \$5.00.

4 POULTRY HOUSING.

*Three hours. F*

The principles and practices of constructing poultry houses and the remodelling of farm buildings into suitable houses for poultry. Lectures, laboratory, field trips. Fee \$3.00. (Alternate years, 1946-47).

*Prerequisite:* sophomore standing.

5 PROCESSING AND PACKAGING POULTRY PRODUCTS.

*Three hours. F*

General principles of marketing as they apply to eggs and poultry meat; candling, grading and packing eggs for market. Preparation of poultry for market. A one-week inspection trip to the Boston market is required, the cost to be prorated. Lectures, laboratory. (Alternate years, 1945-46.)

*Prerequisite:* junior standing.

6-7 POULTRY FEEDING.

*Three hours. W, S*

Feeding poultry for egg production, growth, and fattening. Practice in compounding rations. Experimental work and feeding problems. Lectures, laboratory.

*Prerequisite:* Chemistry 1-2 and 6; junior standing.

102 INCUBATION.

*Three hours. W*

General biology as applied to incubation and the fundamental principles underlying incubation practices. Lectures, laboratory.

*Prerequisite:* 1 or 2; sophomore standing.

103 BROODING.

*Four hours. S*

Theory and practice of brooding chickens and other poultry. Lectures, laboratory.

*Prerequisite:* 1 or 2; sophomore standing.

150, 151, 152 SPECIAL INVESTIGATIONS.

*Three to twelve hours.*

*Prerequisite:* junior standing and permission of the department.

## HOME ECONOMICS

### THE CURRICULA IN HOME ECONOMICS

The purpose of this department is to meet the needs of students interested in the principles and processes involved in home-making, whether with an interest in family life or in training for a profession. The curricula are uniform for all students in the freshman year, and certain courses forming a Home Economics core are required in the subsequent years, for majors in all options. At the beginning of the Sophomore year, the



student may choose any one of four options. The courses required for each particular option are planned for the individual student, depending upon her particular interest.

The General Home Economics option supplies a background which will enable students to become more intelligent home-makers. The Home Economics Education option prepares students to teach Home Economics on the secondary level in Vermont and some other states or to become home demonstration or 4-H club agents. The Clothing, Textile and Related Art option is especially designed for students who wish to enter the fields of costume or textile design, interior decoration, merchandising or textile chemistry. The Food and Nutrition option is designed to prepare students for positions as dietitians, both administrative and practising, in hospitals, colleges, industry, or other institutions, as nutrition or food specialists, or for positions as demonstrators, or in commercial food firms.

Every candidate for the degree shall present a total of 196 quarter hours of credit, exclusive of courses required in Physical Education.

## OUTLINE OF HOME ECONOMICS CURRICULA

(Courses required of all students.)

### THE FRESHMAN YEAR

	F	W	S
	QUARTER		
*English Composition .....	3	3	3
Survey of European History.....	3	3	3
Introductory Physics .....	3	3	3
Inorganic Chemistry .....	5	5	...
Outlines of Organic Chem.....	...	...	6
Orientation (Gen. Home Ec.)...	1	1	...
Physical Education 1 .....	1	1	1

### THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
English Lit. or American Lit. ....	3	3	3
Economic Principles .....	3	3	3
Gen. Zoology or Elem. Botany .....	4	4	...
Food Preparation .....	3	3	4
Clothing & Textiles 1 or.....	...	3	...
Clothing & Textiles 3 & 5.....	3	...	2
Clothing & Textiles 2 or.....	...	...	3
Clothing & Textiles 4 & 6.....	...	3	4
Physical Education 2.....	1	1	1

### THE JUNIOR YEAR

General Psychology .....	3	3	...
Meal Planning, Dietetics .....	4	4	...
Home Equipment, Housing .....	3	3	...
Interior Decoration .....	...	...	3
Home Management .....	...	...	3

### THE SENIOR YEAR

Home Nursing .....	...	...	2
Child Care .....	3	...	...
Child Development .....	3	...	...
Family Relationships .....	...	...	3
Home Management House .....	4	or 4	or 4
Senior Orientation .....	...	...	1

To insure reasonable concentration in the student's field of interest, courses to complete the total credit required for graduation are selected with the approval of the student's faculty advisor from those described below or in the Arts College section.

\* Not required if English placement test is passed.

# COURSES OF INSTRUCTION

## CLOTHING AND TEXTILES

*Assistant Professors Larson and Scranton*

- 1 APPLIED DESIGN AND CLOTHING SELECTION. *Three hours. W*  
Fundamental art principles as they apply to the individual. Fee \$2.50.  
*Miss Scranton*
- 2 CLOTHING CONSTRUCTION AND TEXTILES. *Three hours. S*  
Construction, identification, cost, and use of textiles as they pertain to the individual, home, and institutions. Fee \$2.50. *Mrs. Larson*
- 3 APPLIED DESIGN. *Three hours. F*  
The fundamental principles of design and color. The development of an appreciation of beauty in the utilitarian and decorative arts. Fee \$2.50.  
*Miss Scranton*
- 4 TEXTILES. *Three hours. W*  
Textile fibers, from the raw materials to the finished product; the effect of fiber content, construction, and finish on the cost, quality, and serviceability of the fabric. Fee \$2.50.  
*Mrs. Larson*
- 5 CLOTHING SELECTION. *Two hours. S*  
Application of the art principles, line, color, texture, and pattern, as they relate to the individual and to the care, repair, and selection of clothing.
- 6 CLOTHING CONSTRUCTION. *Four hours. S*  
Utilization of principles of design and construction in making garments of cotton, linen, and similar fabrics. Fee \$2.50.  
*Miss Scranton*
- 103 CLOTHING CONSTRUCTION. *Four hours. W*  
Utilization of principles of design and construction in making garments of wool, silk, and synthetic fabrics. Fee \$2.50. *Miss Scranton*
- 104 CLOTHING CONSTRUCTION. *Three hours. F*  
Development of tailoring skills through the construction of a tailored suit or coat. Fee \$2.50.  
*Mrs. Larson*
- 105 DRAPING AND FLAT PATTERN DESIGN. *Three hours. W*  
Experience in the basic principles and processes involved in draping original dress designs, and in developing block patterns. Fee \$2.50.  
*Mrs. Larson*

## 106 HISTORIC COSTUME.

*Four hours. W*

Costume from pre-historic times to the twentieth century; interrelation of historic costume features with modern fashion modes. Fee \$2.50. (Alternate years, 1946-47.)

*Mrs. Larson*

## 108 CLOTHING ECONOMICS.

*Three hours. W*

Economic and technical factors governing the selection and use of personal and household textiles. Selection of clothing in relation to the economic status of the consumer. (Alternate years, 1945-46.)

*Miss Scranton*

## 111 TEXTILE CHEMISTRY.

*Four hours. S*

The physical and chemical analysis and structure of the raw materials used in fabrics. Fee \$2.50. (Alternate years, 1946-47.)

*Mrs. Lawson*

## 150, 151, 152 SPECIAL PROBLEMS.

*Three years. F, W, S*

Individual investigation of theoretical and practical problems in the field. Elective (C. & T.) seniors.

## FAMILY LIVING

*Assistant Professor Holbrook; Dr. Russell and Miss L. Brown*

## 1 HOME NURSING.

*Two hours. S*

The care of the family during illness. Required of all seniors.

*Miss Brown*

## 101 CHILD CARE.

*Three hours. F*

The care of the child from pre-natal life through infancy and childhood. Required of all seniors.

*Dr. Russell*

## 102 CHILD DEVELOPMENT.

*Three hours. F*

The mental, emotional, and social development of the child and methods of guiding this development; opportunity for observation and participation with children of pre-school age. Required of all seniors.

*Miss Holbrook*

## 103 FAMILY RELATIONSHIPS.

*Three hours. S*

The origin and development, structure and functioning of the family in relation to present-day home and social problems. Required of all seniors.

*Dr. Russell*

FOOD AND NUTRITION

*Professor King; Assistant Professors Bailey and Knowles; Miss Wall*

51-52-53 FOOD PREPARATION. *Three, three, four hours. F, W, S*

The scientific principles and fundamental processes underlying food preparation and preservation, with practical applications. Fee \$3.50 per quarter. Required of all sophomores. *Misses King, Knowles and Wall*

54 FOOD ECONOMICS. *Three hours. S*

The recent trends in food processing, and consumer buying problems. Fee \$3.00. *Miss Wall*

101 MEAL PLANNING AND SERVICE. *Four hours. F*

The principles involved in planning, preparing, and serving meals, with practice. Fee \$5.00. Required of all juniors. *Miss Bailey.*

103 DIETETICS. *Four hours. W*

The food requirements of children and adults; the nutrients in foods; application to the selection of diets at different cost levels. Fee \$3.00. Required of all juniors. *Miss Bailey*

104 NUTRITION. *Four hours. S*

The principles of normal nutrition. *Miss Bailey*

105 DIET IN DISEASE. *Four hours. W*

The dietetic treatment of impaired digestive and metabolic conditions. Fee \$3.00. *Miss Bailey*

106 DEMONSTRATION TECHNIQUES. *Three hours. S*

Analysis, evaluation, and practice of demonstration techniques for presenting information in the fields of food, nutrition, and household equipment. Fee \$3.00. *Miss Knowles*

108 READINGS IN NUTRITION. *Three hours. S*

A critical survey of the literature on recent developments in nutrition. *Miss Bailey*

110 EXPERIMENTAL FOOD PREPARATION. *Four hours. W*

Methods and techniques used in experimental work in foods. Independent laboratory study of problems in food preparation. Fee \$5.00. *Miss King*

150, 151, 152 SPECIAL PROBLEMS. *Three hours. F, W, S*

Individual investigations of the theoretical and practical problems in the field.

## GENERAL HOME ECONOMICS

*Professor King*

- 1 ORIENTATION TO COLLEGE. *One hour. F*  
The problems of adjustment to college life. Required of all freshmen in Home Economics.
- 2 ORIENTATION TO HOME ECONOMICS. *One hour. W*  
Survey and evaluation of professional opportunities in the field. Required of all freshmen in Home Economics.
- 101 ORIENTATION FOR SENIOR WOMEN. *One hour. S*  
Problems of adjustment to life after college. Required of all seniors in Home Economics.

## HOUSING

*Assistant Professors Knowles and Scranton; Mrs. Mills*

- 1 HISTORY OF ART. *Three hours. W*  
A survey of the history of art, including contemporary trends, with emphasis on art appreciation. *Mrs. Mills*
- 51 EQUIPMENT. *Three hours. F*  
The selection, use, and care of household equipment. Fee \$2.50. Required of all juniors. *Miss Knowles*
- 52 HOUSING. *Three hours. W*  
The selection and maintenance of adequate housing facilities to meet family requirements. Required of all juniors. *Miss Knowles*
- 101 INTERIOR DECORATION. *Three hours. S*  
Application of principles of design to furnishing the home. Fee \$2.50. Required of all juniors. *Miss Scranton*
- 102 HISTORY OF FURNITURE. *Three hours. W*  
A study of furniture emphasizing the more important periods and the effect on contemporary tenors. *Miss Scranton*
- 104 RELATED ARTS. *Three hours. S*  
Study and execution of the fundamental art principles as they pertain to the individual, home, and community development. Fee \$2.50. *Miss Scranton*

## HOME ECONOMICS EDUCATION

*Assistant Professor LeBaron; Miss M. Brown*

- 101 HOME ECONOMICS TEACHING. *Six hours. W*  
Modern educational principles and methods applied to the teaching in junior and senior high schools. Required (Ed.) seniors. *Miss LeBaron*
- 102 STUDENT TEACHING. *Eight hours. W*  
Observation and student teaching in junior and senior high schools. Fee \$10.00 (returnable under certain conditions). Required (Ed.) seniors. *Miss LeBaron*
- 150, 151, 152 SPECIAL PROBLEMS. *Two hours. W*  
Individual investigations and report on specific problems. Required (Ed.) seniors.

## HOME MANAGEMENT

*Assistant Professor Knowles*

- 101 HOME MANAGEMENT. *Three hours. S*  
The human and material resources of the home and their manipulation for meeting family requirements. Required of all juniors.
- 102, 103, 104 HOME MANAGEMENT HOUSE. *Four hours. F, W, S*  
Practical application of home making and group living in seven weeks' residence in the Home Management House. Fee \$56.00. Required of all seniors.

## INSTITUTION MANAGEMENT

*Associate Professor Godfrey*

- 101 QUANTITY COOKERY. *Three hours. S*  
Practical application of the principles, methods, and techniques used in large quantity food preparation.
- 102 MARKETING AND PURCHASING. *Three hours. W*  
Food purchasing for institutions and study of materials; fabrication, construction, and installations of institution equipment.
- 103 INSTITUTION ADMINISTRATION. *Three hours. W*  
The organization and personnel management of various types of institutions.

## 104 FOOD COST CONTROL.

*Three hours. S*

The fundamental principles of accounting and a study of adequate systems of food control for various types of food service.

## 150, 151, 152 SPECIAL PROBLEMS.

*Three hours. S*

Individual investigation of theoretical and practical problems in the field. Elective to seniors.

## 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 are, in large measure, the result of the intensive instruction given in small sections in lecture, laboratory, and clinic.

### REQUIREMENTS FOR ADMISSION

Enrollment in the College of Medicine is restricted because of limited teaching facilities. Forty students at most are admitted to the entering class.

A minimum of three years of college work in which certain subjects are required is a prerequisite for admission to the College of Medicine. It is a further prerequisite that this work shall have been done in an institution approved for premedical training by the Council on Medical Education and Hospitals of the American Medical Association. Their requirements are: one year each of English, General Chemistry, Organic Chemistry, Physics and Biology. In addition, the College of Medicine recommends a second course in English, a year in Mathematics, and a course of intermediate grade in a foreign language. These minimum requirements afford the student the opportunity of electing additional courses so that his undergraduate study will be both adequate preparation for professional work and a broad education as well.

The curriculum offered in the College of Arts and Sciences not only covers this work but also coordinates in subject matter with the work in the College of Medicine. The students preparing for the study of medicine

are enrolled in the regular curricula. The Admissions Committee expects applicants to have completed a program like that outlined in the previous paragraph. At the same time the Committee may, at its discretion, give favorable consideration to applicants who have not found it possible to follow in close detail the premedical curriculum, provided that they have completed three years of college work and are able to show acceptable credit in the required courses.

In general, preference is shown in matters of admission: first, to residents of the State of Vermont; second, to sons and daughters of graduates of the University. If vacancies remain after these two groups have been considered, the quota will be filled with those non-resident applicants who, in the judgment of the Medical Admissions Committee, are best qualified to prepare for the practice of medicine.

All candidates must be able to show the Admissions Committee not only that they have passed the courses necessary to fulfill the entrance requirements, but also that their scholarship and personal qualifications for the study of medicine are of such character as to give high promise for success in the course of their medical studies.

Eligibility of an applicant for enrollment in the Freshman class as finally determined by the Admissions Committee of the College of Medicine is based upon:

1. The quality and quantity of the work done in meeting the premedical requirements.
2. The score reported in the Aptitude Test adopted by the Association of American Medical Colleges or the score in the Graduate Record Examination.
3. The personality and general fitness of the applicant for the study of medicine as determined by a personal interview with the above-named committee and by the recommendations of his premedical instructors and other persons.

Application blanks for entrance to the first year class may be secured from the Dean upon request. Individuals selected by the Admissions Committee on information so furnished will be given personal interviews. Notification of selection for personal interviews will be given by the Dean's office.

## OUTLINE OF THE FOUR-YEAR CURRICULUM

The student studies first the general structure of the body, its embryological development, the functions of the various organs, the chemical processes taking place in the body and the minute structure of the tissues and organs in health.



Then follows consideration of the changes in gross and microscopic anatomy, the variations in the chemical processes and in the functions of organs and tissues under the influence of disease and how such changes give rise to different symptoms and physical signs. The methods of interpreting such findings in arriving at a diagnosis are also considered.

The student then studies the methods of investigating diseases, their causes and prevention, as well as the remedies used in their treatment. The various surgical conditions are considered along with the indications for treatment or operation. Reproduction and development are studied together with the management of normal and abnormal labor.

Instruction is given by lectures, demonstrations, recitations, library work, practical courses, laboratory work, clinics and clinical teaching at the bedside, and in the Dispensary. For clinical work the class is divided into small sections. Each student therefore receives the personal attention of the instructor and is given every opportunity for the full use of assigned material.

*The work of the First Year* includes the study of Anatomy, Physiology, Biochemistry, Histology, Embryology and Neuro-anatomy.

*In the Second Year* courses are given in Pharmacology, Pathology, Bacteriology, Clinical Pathology, and Public Health. Anatomy and Physiology are completed in this year. Medicine, Surgery, Obstetrics, Pediatrics and Psychiatry, find their introduction in the second year's curriculum. Throughout the year every effort is made to integrate the student's work so that the relation of each course to the others is fully apparent and the student is brought to an appreciation of the interrelations of the medical sciences. As a part of this plan, a two-hour period is set aside each week during the second semester for a correlation conference. This is offered as a course in itself and is designed to emphasize interdepartmental studies and interdepartmental relationships. Selected cases are brought forward for study and each of the departments connected with second-year teaching takes part in this assignment.

*The work of the Third Year* includes further study in Medicine, Surgery, Obstetrics, Pediatrics, and the various subjects of Medicine and Surgery.

Pathology is extended into the third year both as a continuation of the second year's general course and as a course outlining special pathological conditions encountered in clinical medicine. With this in view, emphasis is placed on Surgical Pathology, both gross and microscopic. A course in Radiology extends throughout the year and Physical Therapy is taught during the second semester.

Ward work in Physical Diagnosis is begun in the third year. Students are assigned in small sections to the wards of the hospitals connected with the College. This work, under proper supervision, includes the taking of

histories and physical examinations. When the work is completed, the case is presented before the section for criticism by the instructor. Ward work of this nature occupies the afternoon periods of the third year.

The correlation conferences begun in the second half of the second year are continued at weekly intervals throughout the third year. While the principal emphasis in the second-year correlation conferences is placed on problems more related to preclinical subjects, in the third year the conferences go further into clinical problems keeping in close touch, nevertheless, with established bases in preclinical fields. Here again the conference is offered as a joint activity of the departments associated with the class's instruction. The plan follows that of the second year in using selected cases for discussion.

Practical courses in Minor Surgery, manikin exercises in Obstetrics, and courses in Eye, Ear, Nose, and Throat, and in Gynecology are also given in the third year.

*The Fourth Year* is devoted to the study of clinical diagnosis and the treatment of disease, the work being entirely clinical and without didactic teaching.

The class is divided into sections of not more than four students each. These sections are assigned to various services in rotation. These services include Medicine, Surgery, and Obstetrics, together with the Medical and Surgical specialties at the Mary Fletcher Hospital, general service at the Bishop DeGoesbriand and Fanny Allen Hospitals, and city service with the City Physician.

During the year the students are required to attend autopsies under the instruction of the Professor of Pathology, and to make such study of the tissues removed as may be of value in understanding the pathological history of the case.

As a supplement to the clinical work in Burlington, a month is spent in Urology, Dermatology and Neurology at the Worcester City Hospital and another month in contagious diseases at the Belmont Hospital in Worcester, Massachusetts. Studies in residence at the State Hospital for mental disease at Waterbury, the State Sanatorium at Pittsford, and the State School at Brandon are included in the fourth year.

The correlation or clinical conference periods of the fourth year are offered through service ward rounds, grand ward rounds, interdepartmental diagnostic conferences, and the clinical-pathological conferences of the hospital staff. While most of the emphasis necessarily is placed on the clinical aspects of the cases under study, no opportunity is lost for reviewing preclinical fundamentals.

Refresher courses have been established, primarily for returning veterans and for physicians who wish a review of recent developments in

diagnosis and treatment. The work is informal and designed to meet individual needs. Classes are limited in number. Three courses are given: a course in General Practice, 12 weeks in length; and courses in Internal Medicine and in Surgery, at least four weeks in length. These will be given through the summer of 1946, and will be continued, with modifications, as graduate refresher courses for practicing physicians throughout the state.

### CLINICAL FACILITIES

The normal capacity of the general hospitals in Burlington used by the Medical College is 480 beds. Fully three hundred of these beds are used without restriction by the College for clinical teaching. Services in urology, dermatology, neurology, and pediatrics at the Worcester City Hospital and in contagious diseases at the Belmont Hospital in Worcester and a general service at Springfield Hospital bring increases in numbers of patients seen.

To these clinical facilities are added those of the outpatient and Dispensary Services which total well over 20,000 cases a year, and those of the State Hospital for mental disease, 1,080 beds, at Waterbury, Vermont; the Vermont Sanatorium for tuberculosis and the Caverly Preventorium at Pittsford, 85 and 48 beds respectively; the hospital facilities of the Brandon State School for the feeble-minded, and the teaching facilities available through the study of children at the Vermont State Home for Destitute Children and St. Joseph's Orphanage, both in Burlington. The number of children cared for in these latter two institutions totals well over three hundred. Admissions to the medical, surgical, obstetrical, and speciality services used for teaching purposes approximate 12,000 annually exclusive of the special facilities just described. With this amount of clinical material and with a limited enrollment of forty students in each of the two classes doing clinical work, an entirely favorable patient-student ratio obtains.

### BULLETIN OF THE COLLEGE OF MEDICINE

A separate bulletin of the College of Medicine, giving fuller detail on the matters outlined above, and the courses of instruction, is available on request from the Dean of the College of Medicine.

### MEDICO-MILITARY SCIENCE

See under Department of Military Science and Tactics

# The Departments of Physical Education

## PHYSICAL EDUCATION FOR MEN

*Professors \*Prentice, †Post, Gardner, and Evans.*

This department aims to train the men students of the University to be healthy, physically and morally fit members of society. It is a required course for all academic Freshmen and Sophomores. Every new student is given a thorough Physical Examination. Men who have physical or health defects are given restricted work, with stress on corrective exercises. Follow-up examinations are given as need is indicated.

A chapter of Sigma Delta Psi, Honorary National Athletic Society, is maintained. Any student is eligible for membership provided he can meet the performance standards in both athletics and scholarship.

### COURSES OF INSTRUCTION

#### 1-2-3 PHYSICAL EDUCATION (basic). *One hour. F, W, S*

Training in posture, marching, calisthenics, and body-building exercises, the fundamentals and skills of various sports and physical activities, planned to develop and improve skill, co-ordination, and endurance, to establish regular habits of exercise, and to inculcate intelligent attitudes toward and interest in athletic activities.

Supplemental to this course are the required Personal Hygiene lectures, giving the student an understanding and appreciation of the factors necessary for health and healthful living.

Required academic freshman men.

#### 4-5-6 PHYSICAL EDUCATION (intermediate). *One hour. F, W, S*

This course is based on a seasonal sports program.

*Fall*—Football, touch football, cross-country, obstacle course running, and calisthenics.

*Winter*—Basketball, indoor track, boxing, wrestling, apparatus and tumbling, handball, swimming, skiing, and calisthenics.

*Spring*—Baseball, track, softball, tennis, handball, obstacle course running, and calisthenics.

*Two hours.* Required academic sophomore men.

#### 7-8-9 ADVANCED COURSE IN ADMINISTRATION AND FOOTBALL COACHING.

(Not offered in 1945-46.)

\* Resigned, December 17, 1945.

† Absent on leave: 1945-46.

10-11-12 ADVANCED COURSE IN HUMAN MECHANICS AND COACHING  
OF BASKETBALL, BASEBALL, AND TRACK.

(Not offered in 1945-46.)

INTRAMURAL ATHLETICS

This program, administered by the Department of Physical Education for Men and directed by Professor Post, enjoys a heavy voluntary participation by the students. Competitions are between classes, fraternities, and individuals. An Intramural Council aids the director in determining program content and policy. Contest winners receive suitable awards. The contests include:

*Fall*—Touch football, tennis.

*Winter*—Basketball, skiing, wrestling, handball, badminton, basketball free throw, indoor relays, track, hockey and bowling.

*Spring*—Softball, horseshoe pitching, hexathlon.

Interfraternity athletic competition carries points for the Traynor Trophy, all-year all-round fraternity championship award, for both winner and runner-up.

PHYSICAL EDUCATION FOR WOMEN

*Professor Eleanor S. Cummings; Miss Hoffman, Miss Euler; Drs. Harwood and Kingsbury.*

At the opening of college a health examination is required of all entering students. On the basis of this examination, the student receives advice concerning the correction of health defects, and direction as to her physical education program. For all students taking the required course, the examination is supplemented by periodic health conferences.

The courses and training of the Department are given for the duration at the University Gymnasium. The athletic fields for women are located near the Weather Bureau on Williston Road.

*Fall*—All sports out of doors. Archery, Field Hockey, Tennis, and Horseback Riding. The last carries a small fee.

*Winter*—Fundamental Gymnastics, Corrective Work, Dancing (Folk, and Square Dancing, Modern Dance Technique), Basketball, Volleyball, Deck Tennis, Shuffleboard, Badminton, Fencing, Archery, Golf, Swimming, Life Saving, Bowling, Recreational Leadership, Skating, and Skiing. Instruction in the essentials of First Aid and Home Nursing is given.

*Spring*—Camp Craft, Softball, Archery, Tennis, Hockey, and Horse-back Riding. The last carries a small fee.

Elective courses for juniors and seniors are offered in Modern Dance Technique, Dance Composition, and Methods of Teaching Tennis, Field Hockey, Basketball, Badminton, and Softball.

Interdormitory tournaments in many sports, and clubs in *all* sports, are open to all women students. These are conducted under the direction of the Department instructors and the Women's Athletic Association.

TWO YEARS OF PHYSICAL EDUCATION FOR TWO PERIODS WEEKLY ARE REQUIRED OF ALL COLLEGE WOMEN. THIS REQUIREMENT SHOULD BE COMPLETED DURING THE FRESHMAN AND SOPHOMORE YEARS. SUPPLEMENTARY FOR FRESHMEN IS A COURSE IN HYGIENE, ONE HOUR PER WEEK. TRANSFERS WHO HAVE NOT ALREADY PASSED A COURSE IN HYGIENE ARE REQUIRED TO TAKE THIS COURSE.

ENROLLMENT IN THE ADVANCED COURSES, WHICH ARE ELECTIVE, IS SUBJECT TO THE APPROVAL OF THE HEAD OF THE DEPARTMENT.

## The Department of Military Science and Tactics

*Lieutenant Colonel* C. EUGENE FOGG, MED. CORPS, N. G., A. U. S.  
Professor of Medico-Military Science

*Captain* FRANK S. RYAN, INFANTRY, A. U. S.  
Professor of Military Science and Tactics

*First Sergeant* CHARLES F. PARKER, DEM. L., U. S. ARMY.

*Sergeant* ANDREW J. LANDA, DEM. L., U. S. ARMY.  
Instructors in Military Science and Tactics

### THE SENIOR INFANTRY ROTC UNIT

*Captain Frank S. Ryan, Infantry, AUS.*

**GENERAL INFORMATION.** All male students of the Freshman and Sophomore classes, and transfer students, in the College of Arts and Sciences, the College of Agriculture, and the College of Engineering, unless excused for adequate physical reason, previous credits at other schools being taken into account, are required to take Military Science two years as a prerequisite to graduation from the University. They receive twelve quarter hours credit for these two basic courses and these credits become an integral part of the record of the student and are counted toward graduation.

The Military Training courses and practical work aim to acquaint students with the fundamentals of military science and tactics and to give them training in posture, bearing, courtesy, punctuality, initiative, and leadership over men. They are offered by the University with the cooperation of the Federal Government which provides arms and ammunition and officers and non-commissioned officers of the Army who serve as the teaching staff of this department.\*

Absences from training or instruction can be excused only for physical disability or other exceptional causes. Any student who is so excused from practical or theoretical instruction will be required to make up the omitted training. Unexcused absences, and excused absences which are not made up, operate to reduce the grade given in the course.

Members of the Freshman class are provided with the distinctive University of Vermont uniform, at an approximate cost of \$6, a part of which will be refunded to the student at the end of each year. The uniforms are the property of the University of Vermont, and are loaned to the student while he is taking military science.

Military Science 1-2-3 and 4-5-6 covering the freshman and sophomore years, comprise the "Basic Course" and Military Science courses offered during the junior and senior years comprise the "Advanced Course."

The Advanced Course R. O. T. C., normally elective to juniors and seniors who are selected by the Professor of Military Science and Tactics and the President, suspended during the war, will again be offered to qualified students not later than October, 1946.

## MILITARY SCIENCE COURSES

### 1-2-3 FRESHMAN BASIC.

*Two hours. F, W, S*

Leadership, Military Courtesy, Discipline and Customs of the Service, Military History and Policy, Principles of Organization, Sanitation, and First Aid, Rifle Marksmanship, and Map Reading. Required of all male freshmen.

### 4-5-6 SOPHOMORE BASIC.

*Two hours. F, W, S*

Characteristics of Infantry Weapons, Scouting and Patrolling, Musketry, Combat Principles of Small Units, Leadership. Required of all male sophomores.

\* Since 1942, an accelerated program of military training has been conducted, with numerous innovations in methods and equipment, including the use of training films and other visual aids.

## MEDICAL UNIT—ROTC

*Lieutenant Colonel Fogg*

A course in Medico-Military Science is available to all medical students who enroll in the Medical Unit of the Reserve Officers Training Corps. This unit has been established by the War Department on application of the University authorities and is open to male medical students who have no disqualifying physical defects. The object of the course is to prepare students for commission in the Medical Corps.

Instruction in this subject is divided into two courses: Basic and Advanced. Each course consists of two school years with approximately thirty-two hours of class work per year. Enrollment in either course is for the full two years.

The basic course is designed for Freshmen and Sophomores and consists of instruction in Military Fundamentals, the organization of the Army and Medical Department, the tactical employment of Medical Department units, and such accessory subjects as will prepare the student for a better appreciation of the Advanced course which is largely preventive medicine.

Students who have satisfactorily completed the basic course are eligible for the Advanced Course. Formerly this course included a six-week period of summer training which is now suspended for the duration of the war and six months thereafter.

The course in Military Medicine provides the ground-work for the military aspect of their preparation for commission as medical officers, Army of the United States.



# Register, 1945-46

## RESIDENT GRADUATE STUDENTS

- Wilfred Henry Boudreau, B.S. (UNIVERSITY OF VERMONT), *Agricultural Education*, Middlebury  
Thomas Henry Candon, A.B. (ST. MICHAEL'S COLLEGE), *English*, Pittsford  
Roger G. Cooley, B.S. (HAMILTON), *History*, Shelburne  
Albert Philias Dauphin, B.E. (CASTLETON NORMAL SCHOOL), *Education*, Vergennes  
David T. Goodell, A.B. (MIDDLEBURY COLLEGE), *Education*, Wells River  
John Conrad Hartnett, B.S. (ST. MICHAEL'S COLLEGE), *Biochemistry*, Winooski  
Carl Winfield Hathaway, B.S. IN ED. (UNIVERSITY OF VERMONT), *History*, So. Burlington  
Nellie Alberta Herrmann, B.E. IN MUS. (UNIVERSITY OF VERMONT), *Music*, Rutland  
Carleton Leslie Holmes, B.S. IN ED. (UNIVERSITY OF VERMONT), *English*, Burlington  
Allan Grenville Kidd, PH.B. (UNIVERSITY OF VERMONT), *History*, Northfield  
Romuald Gerard Lesage, A.B. (ST. MICHAEL'S COLLEGE), *Chemistry*, Winooski  
Wallace Albert Martin, B.A. (NORWICH), *History*, Montpelier  
James David Neill, B.ED. (UNIVERSITY OF VERMONT), *Education*, Randolph  
Chen-li Pang (NATIONAL CENTRAL UNIVERSITY OF CHINA), *History*, Soochow, China  
Louis Pichierri, B.ED. (UNIVERSITY OF VERMONT), *Music*, Burlington  
Dorothy Roberts Pillscher, B.A. (NEW YORK UNIVERSITY), *Education*, New York, N. Y.  
George P. Pillscher, B.A. (NEW YORK UNIVERSITY), *Bacteriology*, New York, N. Y.  
John Willoughby Robinson, PH.B. (UNIVERSITY OF VERMONT), *Political Science*, Bellows Falls  
Robert Prindle Story, B.S. (UNIVERSITY OF VERMONT), *Agricultural Economics*, Putney  
Guy Thomas Trono, B.ED. (UNIVERSITY OF VERMONT), *Education*, Essex Junction  
William Frederick Vassar, PH.B. (UNIVERSITY OF VERMONT), *Political Science*, Burlington  
William Thomas Watt, B.A. (MIDDLEBURY COLLEGE), *Education*, Burlington  
William Arnold Yasinski, B.S. (MIDDLEBURY COLLEGE), *Education*, Fair Haven

## GRADUATE STUDENTS IN THE SUMMER SESSION

- Mildred S. Abelson, B.S. (NEW YORK UNIVERSITY), *Education*, Brooklyn, N. Y.  
Stella Marion Adams, B.S. (NEW HAMPSHIRE), *Psychology*, Hebron, N. H.  
Harold A. Anderson, A.B. (UPSALA), *Education*, West Rutland  
Francis Foulke Bacon, A.B. (PRINCETON), *Education*, Ludlow  
Adena Augusta Belville, B.E. (JOHNSON), *Education*, Montpelier  
Harriet Leonard Bickford, B.S. (SIMMONS), *Home Economics*, Glover  
Willard Henry Blaisdell, B.S. (IOWA STATE COLLEGE), *Education*, Enosburg Falls  
Helen Ruth Bolger, B.S. (NEW YORK UNIVERSITY), *English*, Montclair, N. J.  
Joseph Edward Brousseau, B.E. (LYNDON), *Education*, Springfield  
Dorothy Roy Brown, A.B. (MOUNT HOLYOKE), *Education*, Essex Junction  
John Ralph Burnett, B.S. (VERMONT), *Education*, Wilmington  
Norma Beatrice Carder, B.S. (VERMONT), *Education*, Newport  
Alden Jesse Carr, A.B. (BROWN), M.A. (BOSTON UNIVERSITY GRADUATE SCHOOL), *Education*, Concord  
Ruth A. Child, A.B. (BRYANT), *Education*, Putnam, Conn.  
John Walter Chrusciel, A.B. (ST. MICHAEL'S), *Education*, West Rutland

- Elizabeth Alice Clark, A.B. (MOUNT HOLYOKE), *Philosophy*, Fitchburg, Mass.  
 Velma Anna Cochran, PH.B. (VERMONT), *Zoology*, Stowe  
 Ava Marie Colgan, B.S. (RUSSELL SAGE), *Education*, Bennington  
 Dorothy Matilda Collins, B.S. (VERMONT), *Education*, Hyde Park  
 Dario Joseph Comi, PH.B. (ST. MICHAEL'S), *Education*, Northfield  
 Gertrude Ellen Cone, A.B. (UNIVERSITY OF ROCHESTER), *History*, Keeseville, N. Y.  
 Angela Margaret Crowley, B.S. (NORTH ADAMS' STATE TEACHERS COLLEGE), *Education*, North Adams, Mass.  
 Doris Mae Crozier, A.B. (TRINITY), *Political Science*, Montpelier  
 Helen M. Cunningham, B.S.ED. (VERMONT), *Education*, Richmond  
 Alton C. Currier, B.S. (NEW HAMPSHIRE), *Education*, Fairlee  
 Morton L. Cushing, A.B. (VERMONT), *Education*, St. Albans  
 Wilma Agnes Cushman, A.B. (MIDDLEBURY), *English*, Lincoln  
 Albert Philias Dauphin, B.E. (CASTLETON), *Education*, Vergennes  
 Frank Stanley Devine, B.S. (VERMONT), *Education*, Barre  
 John Clark Donahue, B.A. (MANHATTAN), *Political Science*, Burlington  
 Marie Veronica Donovan, A.B. (COLLEGE OF NEW ROCHELLE), *English*, Bristol, Conn.  
 Margaret Verna Doty, A.B. (SWARTHMORE), *Education*, Lansdowne, Pa.  
 Evelyn Alice Eaton, PH.B. (VERMONT), *Education*, Waitsfield  
 Bertha Agnes Ellis, B.S. (ALBANY STATE TEACHERS COLLEGE), *English*, Auburn, N. Y.  
 Anne R. Epstein, A.B. (HUNTER), *Education*, New York City  
 Sherman Perry Fogg, B.S. (WISCONSIN), *Education*, Lakewood, N. J.  
 Lyrcce Flower Fontaine, A.B. (VERMONT), *English*, Burlington  
 Evelyn DeBrune Foster, PH.B. (VERMONT), *Education*, Johnson  
 John Aveline Freitas, PH.B. (VERMONT), *Education*, White River Junction  
 Susie Powers Gandy, B.S. (ALABAMA STATE TEACHERS COLLEGE), *Education*, Huntsville, Ala.  
 Yolande Bernadette Germain, B.S. COMM. (TRINITY), *Education*, Winooski  
 Donald Andrew Grady, B.S. (VERMONT), *Education*, Essex Junction  
 Arthena Phyllis Gregg, A.B. (MIDDLEBURY), *English*, Montpelier  
 Mildred Caroline Greene, A.B. (NEW JERSEY COLLEGE FOR WOMEN), *Education*, Newark, N. J.  
 Helen Sexton Hall, B.E. (CASTLETON), *Education*, Castleton  
 Amy Luella Hammond, B.S. (VERMONT), *Education*, Burlington  
 Chesley Peck Horton, B.S. (VERMONT), *Education*, Middletown Springs  
 Alice Hastings Howe, B.ED. (VERMONT), *Education*, Passumpsic  
 Charlotte Bernice Hubert, B. OF SCHOOL MUSIC (OBERLIN), *Music*, Yonkers, N. Y.  
 Josephine Mathilde Huse, A.B. (SMITH), *Political Science*, Burlington  
 Cora Alice Hutchins, B.S.ED. (VERMONT), *Education*, Burlington  
 Ruth M. Ingraham, B.E. (KEENE TEACHERS COLLEGE), *Education*, Claremont, N. H.  
 Lillian M. Iversen, B.ED. (VERMONT), *English*, Burlington  
 Elizabeth Bodine Johnson, A.B. (MONTCLAIR TEACHERS COLLEGE), *Education*, Merchantville, N. J.  
 Dorothy Blaise Jones, B.ED. (VERMONT), *Education*, Burlington  
 William Donald Kelley, B.A. (SWARTHMORE), *Education*, Lansdowne, Pa.  
 Laura Douglas Kivlin, B.S. (VERMONT), *Education*, Shoreham  
 Philip Alfred Klinglof, A.B. (CLARK), M.A. (CLARK), *Education*, Worcester, Mass.  
 Nathan Zenas Knight, B.S. (VERMONT), *Education*, Poultney  
 Eva Mae Kochenour, A.B. (GETTYSBURG COLLEGE), *Education*, York, Pa.  
 Albert Davis Lawton, A.B. (DARTMOUTH), *Education*, Essex Junction  
 John Alfred Le Boeuf, B.S. (ST. LAWRENCE UNIVERSITY), *Education*, Mooers, N. Y.  
 Robert John Livingston, B.S. (VERMONT), *Education*, Peterborough, N. H.

- Frank Lombardy, B.S. (MIDDLEBURY), *Education*, Montpelier  
 Robert Delano Lull, Jr., A.B. (DARTMOUTH), *English*, Poultney  
 Isabel Witherow McCurdy, B.S. (SHIPPENSBURG STATE TEACHERS COLLEGE), B.L.S. (DREXEL LIBRARY SCHOOL), *English*, Shippensburg, Pa.  
 Elizabeth Mary McDonald, A.B. (COLLEGE OF NEW ROCHELLE), Stamford, Conn.  
 John Edward McGee, A.B. (ST. MICHAEL'S), *Education*, Shelburne  
 Alan Campbell McKernan, A.B. (DARTMOUTH), *Education*, Barre  
 Orabelle Ina Main, B.S. (VERMONT), *Education*, Groton  
 Joanna Tewksbury Manning, B.S. (VERMONT), *History*, Danville  
 Philip Emerson Manning, B.S. (VERMONT), *Education*, Danville  
 Alyne McRoberts Martin, A.B. (UNIVERSITY OF ILLINOIS), Louisville, Ky.  
 Paul Roland Marvin, B.S. (ST. LAWRENCE UNIVERSITY), *Education*, Alburg  
 Rose Mary Miller, B.S. (MIDDLEBURY), *Education*, Groton  
 Eleanor Grace Milligan, A.B. (MIDDLEBURY), *English*, South Orange, N. J.  
 Esther Beatrice Moore, B.ED. (VERMONT), *Education*, Fair Haven  
 Mary Margaret Moore, A.B. (TRINITY), *English*, Burlington  
 John Norman Murray, B.A. (CEDARVILLE COLLEGE, OHIO), *Education*, Randolph  
 Kathryn Virginia Newcomb, B.S. (VERMONT), *Education*, Waitsfield  
 Ruth Davis Nims, B.A. (OHIO WESLEYAN), *Education*, Jeffersonville  
 Katherine Margaret Nowland, PH.B. (VERMONT), *Education*, Burlington  
 Katherine Mary O'Brien, PH.B. (VERMONT), *Education*, Burlington  
 Austin Luther Olney, B.S. (CENTRAL MICHIGAN COLLEGE OF EDUCATION), *Education*, Hyde Park  
 Iona Shirley Olsen, A.B. (FLORIDA SOUTHERN), *Education*, Wauchula, Fla.  
 Evelyn Orton, PH.B. AND B.S.ED. (VERMONT), *Education*, Burlington  
 Grace Marilyn Palmer, B.S. (WORCESTER STATE TEACHERS COLLEGE), *Education*, Worcester, Mass.  
 Margaret Gertrude Palmer, B.S. (WORCESTER STATE TEACHERS COLLEGE), *Education*, Worcester, Mass.  
 Harry James Patterson, B.S. (BOSTON UNIVERSITY), *Education*, Burlington  
 Julouise Paulsen, B.ED. (PLYMOUTH TEACHERS COLLEGE), *Education*, Danville  
 Rebekah Joslin Pettis, B.S. (VERMONT), *Education*, Waitsfield  
 Louis Pichierri, B.ED. (VERMONT), *Education*, Burlington  
 Percy Leon Pierce, A.B. (OZARK WESLEYAN), *Education*, Danville  
 Harold Carpenter Potter, B.S. (MASSACHUSETTS STATE), *Education*, Chester  
 Arthur Prescott Quimby, B.S. (MIDDLEBURY), *Education*, Morrisville  
 Ernest Benjamin Rand, B.S. (VERMONT), *Education*, Alburg  
 Jean Dorothy Robb, B.S. (SIMMONS), *Education*, Wakefield, Mass.  
 Iva Ellen Robertson, B.S. (VERMONT), *Education*, Waitsfield  
 Barbara Bradford Rose, B.ED. (CASTLETON), *Education*, Fairfax  
 Ruth McLachlan Rowe, B.A. (WELLESLEY), *French*, Waterbury  
 Muriel Rita Ryan, A.B. (ST. JOSEPH COLLEGE), *Political Science*, Stamford, Conn.  
 Alice Priscilla Sargent, A.B. (MIDDLEBURY), *Zoology*, Montpelier  
 Charles Davis Sawyer, PH.B. (ST. MICHAEL'S), *Education*, Fairfax  
 Sister Mary Regis Conlon, A.B. (COLLEGE OF ST. ROSE), *Education*, Rutland  
 Sister Mary Edward Lemay, A.B. (TRINITY), *Latin*, Rutland  
 Sister St. Hilary Stringer, A.B. (COLLEGE OF ST. ROSE), *Education*, Rutland  
 Sister Agnes Marie Tully, A.B. (COLLEGE OF ST. ROSE), *Education*, Rutland  
 Sister Mary Imelda Welch, B.S. (COLLEGE OF ST. ROSE), *English*, Rutland  
 Ruth Ada Spooner, B.ED. (VERMONT), *Education*, Burlington  
 Edith L. Stitt, B.S. (NEW HAVEN STATE TEACHERS COLLEGE), *Political Science*, Glenbrook, Conn.

Chester M. Taft, B.S. (VERMONT), *Education*, Brandon  
 Harriet Josephine Terry, A.B. (HOWARD UNIVERSITY), *English*, Normal, Ala.  
 Marion Louise Towle, B.ED. (VERMONT), *Education*, St. Johnsbury  
 George Maynard Trafton, B.S. (MAINE), *Education*, St. Johnsbury  
 Olive Gertrude Vernon, B.S. (SALEM STATE TEACHERS COLLEGE), *Education*, Peabody, Mass.  
 Ruth Thompson Visscher, A.B. (MICHIGAN), *Education*, Carmel, N. Y.  
 F. Jean Vogler, B.ED. MUSIC (VERMONT), *Education*, Burlington  
 Lawrence Henry Walker, B.S. (AMERICAN INTERNATIONAL COLLEGE), *Education*, Charlotte Hall, Md.  
 Louise Moore Walls, B.S. (FITCHBURG STATE TEACHERS COLLEGE), *Education*, Pepperell, Mass.  
 Basil Barry Walsh, B.S. (MIDDLEBURY), *Education*, Proctor  
 Cola Delmore Watson, B.S. AGRICULTURE (VERMONT), *Education*, Burlington  
 Frederick Henry Webster, B.S. (VERMONT), *Education*, Hinesburg  
 Elizabeth Wehncke, A.B. (MONTCLAIR STATE TEACHERS COLLEGE), *Education*, Craftsbury Common  
 Merlin Jerome Wells, B.S. (VERMONT), *Education*, Jeffersonville  
 Fay Gleason Whitcomb, B.S. (SPRINGFIELD COLLEGE), *Education*, Townshend  
 Elizabeth Lorraine Williams, A.B. (SETON HALL), *Education*, Underhill  
 Alice Mary Wimett, PH.B. (VERMONT), *History*, Pittsford  
 Hazen F. Wood, B.ED. (VERMONT), *Education*, Burlington  
 Rachel Clare Wursthorne, A.B. (TRINITY), *English*, Troy  
 Richmond Alton Young, B.S. (CONNECTICUT), *Education*, Middlebury

## STUDENTS

(Corrected to November 20, 1945)

*Abbreviations are as follows:* Ag, Agriculture; Bus, Business; Ch, Chemistry; CE, Civil Engineering; CT, Commercial Teaching; EE, Electrical Engineering; EIEd, Elementary Education; Engrg, Engineering; HE, Home Economics; LA, Liberal Arts; ME, Mechanical Engineering; Med, Medical; MT, Medical Technology; MEEd, Music Education; NEd, Nursing Education; PG, Post-Graduate; SEd, Secondary Education; Sec, Secretarial; Sp, Special; Uncl, Unclassified.

Marvin Aaron, '49; LA; Bridgeport, Conn.  
 Jane Abbott, Sp,NEd; Saxtons River  
 June Beverly Abell, '48; EIEd; Burlington  
 Edwin Brown Adams, '48; Med; Burlington  
 Nancy Ann Ahern, '47; LA; Los Angeles, Calif.  
 Lawrence Bernard Ahrens, '47; LA; Burlington  
 Donald Thomas Akey, '47; Med; Burlington  
 Arthur Darwin Aldrich, '49; CE; Lyndonville  
 Eleanor Marie Allen, '47; LA; Springfield, Mass.  
 Eljnor Bertha Allen, '47; LA; South Hero

Lois Elizabeth Allen, '48; HE; South Hero  
 Isabel Maria Amor, '49; EIEd; Montpelier  
 Barbara Smith Anderson, '46; LA; Montclair, N. J.  
 Eleanor Elaine Anderson, '46; HE; Essex Junction  
 Eunice Beverly Anderson, '49; SEd; Proctor  
 Janice Lucy Anderson, '47; EIEd; Craftsbury  
 Sarah Ann Andrews, '48; LA; Gloucester, Mass.  
 Alice McGill Annand, '48; LA; New York City  
 Anne Louise Arnold, '48; LA; Brockton, Mass.

- Carolyn Esther Aronson, '46; *LA*; Proctor  
Jane Alice Ash, '49; *MT*; Burlington  
Robert Kimball Ashley, '49; *CE*; Burling-  
ton  
Robert Anthony Astone, '49; *LA*; Beacon,  
N. Y.  
Frances Atkinson, '49; *HE*; Loch Arbour,  
N. J.  
Jane Nathalie Atwood, '49; *LA*; Silver  
Spring, Md.  
Richard Raymond Audette, '47; *ME*; St.  
Albans  
Jean Carolyn Avery, '48; *NED*; Burling-  
ton  
Jeanne Carolyn Ayers, '47; *HE*; Essex  
Junction  
Edna Dole Backup (Mrs.), '46; *Med*;  
Jericho  
Phillip Henry Backup, '46; *Med*; Jericho  
Jeanette Blanche Badger, '48; *ELED*; Hard-  
wick  
Marjory Ellen Bagby, '48; *LA*; West Point,  
N. Y.  
Janice Child Baird, '49; *ELED*; Montpelier  
Jennie Lois Baker, '46; *ELED*; Essex Junc-  
tion  
Richard James Baker, '49; *Med*; Garfield,  
N. J.  
Roger Arnold Baker, '48; *CE*; South Ver-  
non, Mass.  
Ruth Marie Baker, '46; *LA*; Irvington,  
N. J.  
Henry Brown Baldwin, '49; *ME*; Essex  
Junction  
Geraldine Ruth Balich, '49; *ELED*; Barre  
Aglaia Christy Ballas, '48; *Med*; Brattle-  
boro  
Carolyn Susan Ballou, '49; *LA*; Chester  
Clarence Edward Barber, '48; *EE*; Brat-  
tleboro  
Elizabeth Helen Barber, '48; *LA*; Pat-  
chogue, L. I., N. Y.  
Harry Barie, *Sp,Ag*; Essex Center  
Donald Joseph Baril, *Uncl,Sp*; Winooski  
Arthur Joseph Barker, '48; *Med*; Somer-  
ville, Mass.  
Charles Hyde Barnes, '48; *LA*; Burlington  
Evaline Irene Barrett, *Sp,NED*; Rutland  
Frederick Charles Barrett, '46; *Med*; Mil-  
ton  
Joan Grace Barrett, '48; *LA*; Burlington  
Harriet Natalie Barron, '46; *LA*; Roxbury,  
Mass.  
Robert Cota Barrows, '48; *CE*; Burlington  
Bartholomew David Barry, Jr., '46; *CE*;  
Burlington  
Rose Mary Barry, '48; *ELED*; Bellows Falls  
Betty Jean Johnson Bartlett (Mrs.), '46;  
*ELED*; Burlington  
Doris Ostergren Barton (Mrs.), '46; *LA*;  
Cobalt, Conn.  
Wendell Arthur Barwood, '48; *LA*; Nor-  
wich  
Edward Graham Bassett, '49; *LA*; Pleasant-  
ville, N. Y.  
Theodore Evander Battles, '48; *LA*; Mil-  
lington, N. J.  
Seymour James Baum, '47; *Med*; Bridge-  
port, Conn.  
Alexander Eli Bayer, '47; *Med*; New Bri-  
tain, Conn.  
Ann Elizabeth Bayley, '48; *LA*; Washing-  
ton, D. C.  
Beverley Thrall Beach, '49; *LA*; Litchfield,  
Conn.  
Ellen Ruth Beach, '48; *ELED*; Jericho Cen-  
ter  
Natalie Brooks Beal, '46; *Bus*; Burlington  
Allene Elizabeth Beattie, '46; *Sec*; St.  
Johnsbury  
Barbara Beattie, '48; *LA*; Mountain Lakes,  
N. J.  
Carlene Beattie, '49; *LA*; Guildhall  
Anna Elizabeth Beaulac, '48; *HE*; Ran-  
dolph  
Ralph Sherman Becker, '49; *Cb*; Freeport,  
Ill.  
Barbara Joyce Beecher, '48; *ELED*; Lyons  
District, Bennington  
Ruth Marguerite Behrens, '49; *Sec*; Secau-  
cus, N. J.  
John Stefan Belko, *Uncl,Sp*; Bridgeport,  
Conn.  
Mary Lesley Bell, '46; *LA*; Barre  
Thelma Louise Bellows, *Uncl,Sp*; Fairfax  
Marion Ella Belville, '48; *ELED*; Barre  
Virginia Rae Benedict, '46; *HE*; Burling-  
ton  
Catharine Pauline Benjamin, '47; *MT*;  
Stamford, N. Y.  
Ruth Marie Benson, '48; *ELED*; Townshend  
Joyce Prudence Bentley, '49; *LA*; East  
Arlington

- Ida Mae Benton, '47; *CT*; Saxtons River  
Ernest Eugene Benway, '48; *ME*; Winoo-  
ski  
Nicholas Berry, '49; *LA*; Bristol  
Jacqueline Ann Best, '49; *ELED*; Winooski  
Beatrice Bickford, '47; *LA*; Grafton, Mass.  
Audrey Irene Bidwell, '48; *LA*; Wells River  
Joyce Emma Bingham, '48; *LA*; St. Albans  
Ellen Frances Birchall, '47; *Med*; Burling-  
ton  
William Norbert Birnbaum, '49; *LA*;  
Cedarhurst, N. Y.  
Evelyn Elizabeth Bisbee, '49; *LA*; Waits-  
field  
Bertrand Philip Bisson, '49; *LA*; Mont-  
pelier  
Gaius Harvey Blackmer, '49; *LA*; Gays-  
ville  
Allaire Blake, '49; *LA*; Exeter, N. H.  
James Roland Blanchard, '49; *Med*; Bur-  
linton  
Thelma Bloom, '47; *LA*; Hartford, Conn.  
James Douglas Boardman, '48; *Med*; Bur-  
lington  
Mary Alberta Boardman, '46; *Sec*; Bur-  
lington  
Betty Buda Bohne, '48; *LA*; Bennington  
Rita Helen Bolognani, '49; *ELED*; Reads-  
boro  
Anastasia Boretos, '47; *LA*; Rutland  
Frederick Atwood Bosworth, '48; *EE*;  
Middlebury  
Joan Ada Bosworth, '48; *SED*; Bristol  
Richard Emile Bouchard, '49; *Med*; Bridge-  
port, Conn.  
Shirley Rose Boulanger, '48; *Med*; Hanson,  
Mass.  
Wilfred Henry Bourdeau, *Uncl, Sp, Ag*;  
Middlebury  
Heath Douglas Bourdon, '48; *Med*; Clare-  
mont, N. H.  
Edward Robert Bove, '46; *Med*; Rutland  
Katherine Charlotte Bowles, *Sp, NED*; Ar-  
lington, Mass.  
Edward Abraham Boyarsky, '47; *LA*;  
Burlington  
Saul Boyarsky, '46; *Med*; Burlington  
Helen Elizabeth Boyd, '48; *HE*; Wood-  
bury, Conn.  
Brendan James Boylan, '49; *LA*; White  
Plains, N. Y.  
Charlotte Minnie Boynton, '48; *ELED*;  
South Pomfret.  
Janet Pitcairn Brackenridge, '49; *LA*;  
South Orange, N. J.  
Betty Ann Branch, '49; *LA*; Waban, Mass.  
George Henry Bray, '47; *Med*; New Bri-  
tain, Conn.  
Mary Patricia Brayton, '47; *LA*; Poultney  
Mary Evelyn Breen, '48; *LA*; Waterbury  
Pauline Corrine Breen, '48; *ME*; Jericho  
Gloria Breger, '49; *LA*; Kew Gardens, L. I.  
Mary Elizabeth Bresnehan, '47; *HE*; Proc-  
tor  
Delbert Mitchell Bressette, '49; *ME*; St.  
Albans  
Grace Rita Brewster, '47; *LA*; Port Jervis,  
N. Y.  
Marion Pearl Briggs, '47; *ELED*; New  
Haven  
Marjorie Martin Briggs, *Uncl, Sp*; Brandon  
Mary Agnes Brisbin, '47; *ELED*; Waterbury  
Harriet Jean Bristol, '46; *HE*; Burlington  
Rosemary Bristol, '48; *LA*; West Hart-  
ford, Conn.  
Margaret Louise Brockway, '47; *HE*; Lyme  
Center, N. H.  
James Francis Brodie, '46; *LA*; Burlington  
Harold Bronk, '49; *Bus*; Bellows Falls  
Janet Marilyn Brooks, '49; *ELED*; Barton  
Marilyn Edith Brower, '48; *MT*; Keyport,  
N. J.  
Christine Etta Brown, '46; *LA*; Groton  
Douglas Alexander Brown, '49; *Engrg*;  
Winooski  
Leola Isabelle Brown, '46; *ELED*; Burling-  
ton  
Lois Sylvia Brown, '47; *HE*; Richmond  
Constance Wheeler Brownell, '49; *Med*;  
Burlington  
Eleanor Palmer Brownell, '46; *MEd*; Bur-  
lington  
Barbara Irene Bruce, '49; *Sec*; Burlington  
Elsie Katherine Bruce, '46; *LA*; Malone,  
N. Y.  
Arline Camp Brush, '49; *LA*; West Hart-  
ford, Conn.  
Donna Marie Buckingham, '49; *LA*;  
Tidioute, Pa.  
Patricia Lou Buckingham, '47; *LA*; White  
Plains, N. Y.  
James Arthur Bulen, '49; *Med*; Escondido,  
Calif.

- Clara Ellen Bundy, '47; *EIEd*; Bethel  
 Edward Stillman Bundy, '48; *Med*; South-  
 ington, Conn.  
 Raymond Joseph Burbee, '47; *LA*; Clare-  
 mont, N. H.  
 Mignon Ruth Burggraf, '47; *Cb*; Ruther-  
 ford, N. J.  
 Harold Eugene Burke, '49; *Bus*; Essex  
 Junction  
 Henry Douglas Burke, '49; *Ag*; Montpelier  
 Anne Veronica Burnham, '48; *LA*; Water-  
 bury  
 Gideon Sabin Burnham, '49; *SED*; Morris-  
 ville  
 Edith Rosemary Burns, '49; *HE*; Under-  
 hill Center  
 Eleanor Marie Burns, '48; *EIEd*; South  
 Woodstock  
 Benjamin Bursten, '48; *LA*; Stamford,  
 Conn.  
 Gloria June Bussiere, '47; *CT*; Swanton  
 William Hiram Buttles, '48; *EE*; Burling-  
 ington  
 Grace Martin Buttolph, *Sp,NED*; Shore-  
 ham  
 Wallace Frederick Buttrick, '48; *Med*;  
 Burlington  
 Dorothy Julia Butzko, '47; *LA*; Fairfield,  
 Conn.  
 Carlisle Willis Buzzell, '48; *ME*; Williams-  
 town  
 Laura Mae Byington, '48; *HE*; Charlotte  
 Irene Mae Cadoret, '49; *LA*; Manchester  
 Depot  
 Nancy Marie Cadoret, '49; *EIEd*; Man-  
 chester Depot  
 Lucienne Virginia Cadorette, '48; *SED*;  
 Barre  
 Alison Mae Cady, '46; *EIEd*; Rutland  
 Rebecca Caldwell, '49; *NED*; Salem, Mass.  
 Willima Andrew Callahan, '49; *MED*; St.  
 Albans, L. I., N. Y.  
 Genevieve Eva Campbell, '46; *HE*; Straf-  
 ford.  
 Virginia Campbell, '46; *LA*; Lyndonville  
 Nevia Emilia Campi, '47; *LA*; Barre  
 Theresa Marion Campono, *Sp,NED*; Swan-  
 ton  
 Paul William Carey, '47; *LA*; Ludlow  
 Jean Alice Carlton, '47; *LA*; Burlington  
 Norma Ellen Carmichael, '49; *LA*; Verona,  
 N. J.  
 Mary Ethel Carpenter, '49; *Cb*; Hinesburg  
 James Russell Carpenter, '49; *Bus*; Ben-  
 nington  
 Louise Nolte Carroll, '49; *LA*; Burlington  
 Allan Bondes Carter, *Uncl,Sp*; Burlington  
 Catherine Barbara Carter, '49; *HE*; Bur-  
 lington  
 Margaret Hooper Carter, '46; *EIEd*; Gro-  
 ton  
 Charles Ellsworth Carver, Jr., '46; *CE*;  
 South Hero  
 Mary Dorothy Caryl, '49; *MT*; Brandon  
 Joan Cassista, '49; *LA*; Chester  
 Helen Elizabeth Cayey, '48; *LA*; Burling-  
 ington  
 Richard Joseph Cerasoli, '49; *Bus*; Barre  
 Charlotte Geraldine Chaffee, '46; *HE*;  
 Enosburg Falls  
 Richard Freeman Chamberlin, '47; *LA*;  
 Wells River  
 Ella Evelyn Chamer, '49; *LA*; Union, N. J.  
 Virginia Hope Chandler, '49; *Cb*; Con-  
 cord, N. H.  
 Diana Joan Charles, '46; *LA*; Locust Val-  
 ley, N. Y.  
 Patricia Wilson Chase, *Sp,NED*; Brandon  
 Gertrude Ellen Cheney, '47; *LA*; Winoo-  
 ski  
 Ervin Louis Chicoine, '49; *EE*; Winooski  
 Eugene Robert Chisholm, '47; *Med*; Mont-  
 pelier  
 Margaret Elaine Chittenden, '49; *HE*;  
 Hartford  
 Beverly Joyce Church, '49; *HE*; Burling-  
 ington  
 Nancy Lee Church, '48; *HE*; Plainfield,  
 N. J.  
 Natalie Martha Clapp, '49; *LA*; Baldwins-  
 ville, N. Y.  
 Barbara Ann Clark, '48; *LA*; Burlington  
 Carol Millicent Clark, '48; *EIEd*; Glover  
 Dorothy Clark, '48; *LA*; Newfane  
 Elizabeth Graeme Clark, '46; *HE*; Bur-  
 lington  
 Ella Joslin Clark (Mrs.), '46; *MT*; Waits-  
 field  
 Francena Clark, '49; *Cb*; Waitsfield  
 Gladys Ardell Clark, '49; *Cb*; Schenec-  
 tady, N. Y.  
 Jean Louise Clark, '48; *Sec*; Burlington  
 Lyle Dix Clark, '49; *LA*; Conway, Mass.

- Marjorie Flora Clark, '48; *LA*; St. Albans  
 William Joseph Clark, Jr., '47; *Med*; Scarsdale, N. Y.  
 Gertrude Janet Clogston, '47; *LA*; North Troy  
 Deborah Ellen Cobb, '48; *MEd*; Newbury  
 Winston Earle Cochran, '48; *Med*; Morrisville  
 Helen Virginia Coffman, '46; *LA*; Burlington  
 Harriet Cohen, '46; *LA*; Worcester, Mass.  
 Joyce Averill Colby, '47; *ElEd*; Montpelier  
 Norma Ruth Colby, '49; *CE*; St. Johnsbury Center  
 Constance Holden Cole, *UnclSp*; Sedgwick, Me.  
 A. Herbert Cole, III, Washington, D. C.  
 Loretta Amelia Coletti, '48; *LA*; Barre  
 Rudolph Lester Colletti, '46; *Med*; Barre  
 Arnold Herbert Colodny, '47; *LA*; Burlington  
 Janice Cecile Commanday, '46; *LA*; New York, N. Y.  
 Betty Glenn Comstock, '49; *LA*; Barton  
 Elizabeth Marie Concklin, '47; *LA*; Rutherford, N. J.  
 Dale Merton Conley, '48; *Ag*; Windsor  
 Harold George Connor, *SpAg*; Burlington  
 Carol Jeanne Conroy, '48; *LA*; Scarsdale, N. Y.  
 Urania Contos, '48; *LA*; Newburyport, Mass.  
 Esther Clare Cook, '47; *MEd*; St. Johnsbury  
 Margaret Mahar Cook (Mrs.), '46; *ElEd*; Poultney  
 Mary Jean Cook, '48; *HE*; Burlington  
 William Roy Cook, Jr., '46; *Bus*; Burlington  
 Roger G. Cooley, *PG*; Shelburne  
 Elizabeth Louise Corliss, '48; *ElEd*; East Corinth  
 Rebecca Jane Corliss, '48; *HE*; Jericho  
 Harvey Orrin Corman, '49; *Bus*; Burlington  
 Alan Russell Corwin, '46; *Ag*; Chelsea  
 Freda Lucille Corwin, '48; *SED*; South Royalton  
 Charles Vincent Costantino, '49; *LA*; Bennington  
 Ellen Louise Cottle, R.N., *Sp,NEd*; Secaucus, N. J.  
 Therese Simone Coutu, '49; *ElEd*; Westfield  
 Amy Agnes Cox, '46; *SED*; Enosburg Falls  
 Elizabeth Larter Cox, '49; *LA*; Short Hills, N. J.  
 Marilla Ann Crandall, '49; *ElEd*; Springfield  
 Paul Herbert Crandall, '46; *Med*; Essex Junction  
 Edward Byington Crane, '47; *Med*; Burlington  
 Loraine Guild Crane (Mrs.), '46; *ElEd*; Burlington  
 Helen Sara Crocker, '48; *LA*; Burlington  
 Henry Foster Crocker, Jr., '49; *EE*; Chester  
 Katherine Crocker, '49; *LA*; Ashfield, Mass.  
 Juanita Emeline Cross, '49; *ElEd*; Underhill  
 Helen Elizabeth Crossley (Mrs.), *UnclSp*; Burlington  
 Mary Patrica Crotty, '49; *ElEd*; Bellows Falls  
 James Joseph Crowley, Jr., '49; *Bus*; New Haven, Conn.  
 Leonard Vincent Crowley, '49; *Med*; Binghamton, N. Y.  
 Doris Jeanne Cureau, '49; *SED*; Tarrytown, N. Y.  
 Marjorie Ethel Cutler, '47; *Cb*; Adams, Mass.  
 Michael Paul Dacquisto, '49; *Med*; Pelham, N. Y.  
 Edmund Joseph Dague, '49; *Cb*; Burlington  
 Porter Hinman Dale, '47; *Med*; Island Pond  
 Catharine Starbird Dalton (Mrs.), *UnclSp*; Burlington  
 Horace John Daniels, '49; *LA*; Burlington  
 Anthony Louis Danza, '49; *Med*; Brooklyn, N. Y.  
 Albert Philias Dauphin, *PG*; Vergennes  
 Barbara Eaton Davis, '49; *MT*; West Medford, Mass.  
 Clayton Eugene Davis, '49; *Bus*; Burlington  
 Clemma Carolyn Davis, *Sp,NEd*; Craftsbury Common  
 Earle Marshall Davis, '49; *Med*; Reading, Mass.



- Florence Lola Davis, '48; *HE*; Hardwick  
 Jean Davis, '47; *SEd*; Northfield  
 Marilyn Davis, '49; *EEd*; Bridgewater  
 Lawrence Ashburn Dawson, '49; *MT*;  
 Wallingford  
 Dorothy Ann Day, '46; *HE*; Springfield  
 Llewella Belle Day, '48; *LA*; West Rut-  
 land  
 Eugene Anthony DeFelice, '49; *LA*; Bea-  
 con, N. Y.  
 Ernest Russell Deitch, '49; *Med*; Kirk-  
 ville, Iowa.  
 Sister Marie de la Ferre, *Sp, Med*; Burling-  
 ton  
 Irene T. Delaney (Mrs.), *Uncl, Sp*; Bur-  
 lington  
 Mary Louise Delano, '48; *LA*; Shoreham  
 Cleveland Ray Denton, '47; *Med*; Schenec-  
 tady, N. Y.  
 Marilyn Elizabeth Derrick, '48; *LA*; West  
 Hartford, Conn.  
 James Gerald Dever, '49; *EE*; Barre  
 Dorothy Mildred Dexter, '48; *HE*; Pearl  
 River, N. Y.  
 George Herbert Dickinson, Jr., '47; *Med*;  
 Meriden, Conn.  
 Mildred Josephine Dillback, '49; *Bus*;  
 Brattleboro  
 Nancy Alice Dockstader, '46; *HE*; Amity-  
 ville, N. Y.  
 Daniel Francis Doheny, Jr., '49; *Bus*; St.  
 Albans  
 Robert Charles Doherty, '47; *Med*; Bur-  
 lington  
 Elizabeth Lea Dole, '46; *LA*; Burlington  
 Byron Dolgin, '49; *LA*; St. Johnsbury  
 Virginia Henrietta Donaldson, '47; *LA*;  
 Washington, D. C.  
 Dona Mary Donelan, '49; *MEd*; Dedham,  
 Mass.  
 Ida Marguerite Donnelly, '46; *LA*; Phil-  
 adelphia, Pa.  
 Nancy Isabel Dorman, '48; *Sec*; Delmar,  
 N. Y.  
 Mary Margaret Downey, '48; *LA*; Nashua,  
 N. H.  
 Edward Joseph Doyle, '49; *Bus*; Arlington  
 Elizabeth Fannie Drake, '47; *LA*; Middle-  
 bury  
 Anna Mary Dragoon, '49; *LA*; Witherbee,  
 N. Y.  
 Hillard James Dubie, '49; *SEd*; Waterbury
- Betty Ann DuBois, '47; *HE*; Teaneck,  
 N. J.  
 Vivian Sylvia DuBrule, '48; *EEd*; Bur-  
 lington  
 Sister Mary Duffany, *Uncl, Sp*; Burlington  
 Ellen Margaret Dunn, '49; *SEd*; Crafts-  
 bury Common  
 Mary Jean Allerton Dunsmore, '46; *LA*;  
 St. Albans  
 Herbert Ashley Durfee, Jr., '47; *Med*;  
 Burlington  
 Priscilla Ann Durfee, '49; *SEd*; Bethel  
 Delmer Dennis Durgin, Jr., '47; *Med*;  
 Central Islip, N. Y.  
 Martha Lillian Durgin, '47; *LA*; Enosburg  
 Falls  
 Doris Isabelle Dwyer, '47; *LA*; Bristol  
 Jean Louise Earle, '49; *LA*; West Dover  
 Wendell George Earle, '46; *Ag*; East Hard-  
 wick  
 Jean Orrilla Easton, '48; *NEd*; Shoreham  
 Kathryn C. Eaton, '49; *EEd*; Rutland  
 Emma Pearl Eddy, '49; *HE*; Hinesburg  
 David Arthur Edgar, Jr., '47; *Cb*; Sher-  
 burne Center  
 Phyllis Mary Edgerton, '46; *HE*; Burling-  
 ton  
 Sara-Lee Edson, '47; *EEd*; Auburndale,  
 Mass.  
 Lenore Eichel, '47; *HE*; Brooklyn, N. Y.  
 Lois Jean Eimer, '47; *Cb*; Jackson Heights,  
 L. I., N. Y.  
 Wilfred Theodore Elliott, '46; *Med*; St.  
 Johnsbury  
 Madaleen Jacobs Ellis, '48; *EEd*; Brook-  
 field  
 Richard Ernest Ellison, '49; *LA*; Chitten-  
 den  
 Ruby Mary Ellsworth, '48; *LA*; Lyndon-  
 ville  
 Dorothy Ann Elmer, '49; *LA*; North Ben-  
 nington  
 Cyrus Bernard Elmore, Jr., '49; *LA*; Rut-  
 land  
 Joyce Eleanor Emery, '48; *EEd*; Burling-  
 ton  
 Daniel Davis Erhardt, '48; *LA*; Coram,  
 L. I., N. Y.  
 Karl Wayne Erwin, '48; *Med*; Burlington  
 Ruth Margaret Erwin, '48; *HE*; Burling-  
 ton

- Ruth Joan Esser, '48; *Ag*; Washington, D. C.  
 Peter Floreal Esteran, '48; *LA*; Barre  
 Muriel Alice Evans, *Sp, NEd*; Waddington, N. Y.  
 Walter Stuart Evans, '47; *Bus*; Edgewater, N. J.  
 Emmett Lawrence Fagan, Jr., '49; *LA*; Rutland  
 William Thomas Fagan, Jr., '48; *Med*; Rutland  
 Irene Forestelle Fahey, '46; *LA*; Bridgeport, Conn.  
 Glory Ann Farmer, '46; *LA*; Fair Haven  
 Mary Jane Farnham, '49; *LA*; Burlington  
 Rebecca Joyce Farnham, '47; *LA*; Morrisville  
 Audrey Joyce Farnsworth, '48; *LA*; Morrisville  
 Kathleen Mae Farnsworth, '48; *NEd*; Richford  
 Lorraine Mary Farrell, '46; *MEd*; Shelburne  
 Helen Elizabeth Farrington, '49; *HE*; Peacham  
 Inez Elizabeth Farrow, '48; *HE*; Groton  
 Leona Marie Farrow, '48; *HE*; Groton  
 Winnifred Lovena Favreau, '48; *ElEd*; West Townshend  
 Beverly Ruth Feinberg, '48; *LA*; Plymouth, Mass.  
 June Elizabeth Felix, '48; *SED*; Plainfield  
 Leona Cora Felix, '48; *LA*; Brooklyn, N. Y.  
 Joseph Mortimer Fennell, Jr., '49; *Med*; Bridgeport, Conn.  
 Dorothy Ruth Ferris, '47; *LA*; Mountain Lakes, N. J.  
 Janet Elizabeth Fickenschier, '47; *LA*; Buffalo, N. Y.  
 Stanley Samuel Fieber, '48; *Med*; Brooklyn, N. Y.  
 Edith Avis Field, '49; *HE*; North Ferrisburg  
 Julia Elizabeth Field, '46; *SED*; North Ferrisburg  
 Beverly Grace Fifield, '46; *ElEd*; Newport  
 Renee Wilma Finberg, '48; *LA*; Brooklyn, N. Y.  
 Barbara Jane Fitts, '49; *Sec*; Barre  
 James Louis Fitzgerald, '49; *ME*; Winoski  
 Sister Rose Mary Fitzgerald, *Sp, NEd*; Burlington  
 Mary Jane Fleming, '48; *LA*; Stroudsburg, Pa.  
 Francis Robert Flood, '49; *EE*; Burlington  
 William Arthur Flood, '47; *Med*; North Bennington  
 Lorraine Philimen Flory, '48; *Sec*; Fair Haven  
 Gracile Flower, '49; *MEd*; Hartland Four Corners  
 Ilene Flower, '48; *LA*; Hartland Four Corners  
 Joyce Madeleine Flynn, '47; *LA*; Newton, Mass.  
 Graham Edwin Fogg, '49; *LA*; Burlington  
 William James Ford, '49; *MT*; Burlington  
 Albert Simpson Frank, '49; *LA*; Burlington  
 Lester Frank, '46; *Med*; Burlington  
 Paul Victor Fraser, '47; *CE*; Burlington  
 Dorothy Elizabeth Frazer, '47; *HE*; Long Beach, N. Y.  
 Dorothy Ella French, '47; *LA*; Londonville, N. Y.  
 Arlene Mary Fritz, '47; *LA*; Hartford, Conn.  
 Catherine Campbell Frost, '48; *HE*; Woodstock  
 John Riess Fuller, '46; *Med*; Burlington  
 Raymond Wilson Gadue, '49; *LA*; Bennington  
 Rodney Gordon Galbraith, '47; *Bus*; Burlington  
 Elizabeth Buzzelle Gale (Mrs.), R.N., *Uncl, Sp*; Stowe  
 Noel Charles Galen, '49; *Med*; New York City  
 Doris Smith Galloway, '49; *LA*; Newburgh, N. Y.  
 Charlotte Miriam Galusha, '49; *HE*; South Shaftsbury  
 John Lawrence Gardner, '48; *Cb*; Burlington  
 Sybil Bryant Gardner, '48; *LA*; Patchogue, N. Y.  
 Joan Garvin, '48; *HE*; Orange, N. J.  
 James Arthur Garwood, '49; *LA*; Glens Falls, N. Y.  
 Eileen May Gates, '48; *MEd*; Bennington  
 Joan Agnes Gearhart, '49; *LA*; Stroudsburg, Pa.

- Charles Edward Genovesi, '49; *SEd*; Rutland
- Marie Irene Gerdon, '49; *LA*; Rutland
- Russell Frank Gervais, '46; *Med*; Winooski
- Michael Thomas Giacomarra, '48; *Med*; Burlington
- Leo Paul Giardi, '48; *Med*; Hartford, Conn.
- Edythe Gibson, '47; *LA*; Bayville, N. Y.
- Kenneth George Gibson, '47; *Bus*; St. Johnsbury
- Rachael May Giddings, '46; *ELED*; Ludlow
- Marilyn Elizabeth Gile, '47; *Sec*; Burlington
- Betsy May Gillinder, '46; *HE*; Port Jervis, N. Y.
- Arthur Emanuel Gillman, '47; *LA*; Woodmere, N. Y.
- Rita Iris Gilman, '49; *LA*; Rye, N. Y.
- John Grant Joseph Gilmore, Jr., '49; *LA*; Burlington
- Robert Dore Gittler, '49; *Med*; New York, N. Y.
- Claire Shirley Glass, '48; *LA*; Burlington
- John Henry Gleason, '49; *CE*; Burlington
- Enid Goellet (Mrs.), '49; *LA*; Stowe
- Judith Mae Goldblatt, '47; *LA*; New York City
- Stanley Lloyd Golden, '48; *LA*; Stamford, Conn.
- Sonia Perkins Goldsmith (Mrs.), '46; *Sec*; Brockton, Mass.
- Julian John Goodman, '48; *Med*; Boston, Mass.
- Madeline Louise Gordon, '49; *MT*; Williamstown
- Joanne Louise Goulart, '48; *LA*; New Bedford, Mass.
- Charles Henry Goyette, '49; *Med*; Barre
- Geraldine Elizabeth Graham, '46; *SEd*; Percy, N. H.
- Robert Edgar Graham, *Uncl,Sp*; Percy, N. H.
- William Francis Gray, '49; *Ch*; Burlington
- Mary Thorne Greene, '46; *Ch*; Morrisville
- Michael Greenfield, '46; *LA*; New York City
- Helen Mae Greenwood, '48; *HE*; Bridgeport, Conn.
- Beverley Grier, '48; *LA*; Birmingham, Mich.
- Eugene Franklin Griffin, '49; *LA*; St. Albans
- Lawrence Edward Griffin, Jr., '49; *Bus*; Burlington
- Paul Edward Griffin, '47; *Med*; Herkimer, N. Y.
- Diana Lolomi Griffis, '48; *ELED*; Vergennes
- Eleanor Theresa Griffith, '49; *Sec*; Jonesville
- Katherine Griswold, '46; *Bus*; Bennington
- Marion June Grody, '48; *LA*; West Hartford, Conn.
- Barbara Ruth Grout, '47; *LA*; Morristown, N. J.
- Margery Louise Grout, '49; *LA*; Springfield, Mass.
- Elizabeth Wales Grow, '49; *LA*; Cornwall-on-Hudson, N. Y.
- Don Allen Guinan, '48; *Med*; Northampton, Mass.
- Audrey Elizabeth Gutterson, '48; *ELED*; Ryegate.
- Theresa Josephine Guzowski, '48; *Ch*; Florence, Mass.
- David Powell Hackett, '46; *LA*; Washington, D. C.
- Dorcas Elizabeth Hadwen, '49; *ELED*; Bennington
- Nancy Hafely, '49; *LA*; Brooklyn, N. Y.
- Mary Elizabeth Hageman, '48; *HE*; Verona, N. J.
- Ruth Arnold Haigh, '48; *LA*; Burlington
- J. Richard Haigis, '49; *LA*; Burlington
- Dean Marvin Hale, '49; *LA*; Windsor
- Marjorie Ann Hale, '46; *LA*; Newbury
- Beverly Mina Hall, '48; *LA*; Burlington
- Nancy Eleanor Hall, '46; *LA*; Burlington
- Verna Louise Hall, '48; *MT*; Brattleboro
- Virginia Lou Hamel, '48; *LA*; South Ryegate
- Jean Boyer Hamilton, '47; *LA*; Barre
- John Ellsworth Hancock, III, '49; *Ag*; East Hardwick
- Dorothy Marie Hansen, '47; *LA*; Northfield
- Jacquelyn Laurel Hansen, '46; *LA*; Northfield
- Marguerite Hazel Hansen, *Uncl,Sp*; Franklinville, N. Y.

- Mary Louise Hard, '48; *NEd*; Manchester Depot
- Jacqueline Jeanne Hardgrove, '48; *HE*; Amityville, N. Y.
- Phyllis Marie Hardy, '46; *HE*; Putney
- David Sumner Harlow, '48; *SEd*; South Roylton
- Richard Davis Harper, '48; *Bus*; Albany, N. Y.
- Margaret Josephine Harris, '49; *MT*; Bristol, Conn.
- Natalie Ruth Harris, '46; *LA*; Hartford, Conn.
- Shirley Dorothy Harris, '46; *LA*; Brooklyn, N. Y.
- Burton Harrison, '49; *LA*; Newburgh, N. Y.
- Richard Maxwell Harwood, '49; *LA*; Southbridge, Mass.
- Susan Walker Haskell (Mrs.), '48; *NEd*; Cabot
- Marion Bickford Hastings, '48; *EIEd*; Glover
- Philip Ross Hastings, '47; *LA*; Bradford
- Carl Winfield Hathaway, *PG*; South Burlington
- Kathleen Marie Haus, '47; *LA*; Brattleboro
- Everett William Havens, '49; *ME*; Burlington
- Frederick Dudley Havens, '49; *ME*; Burlington
- Fay Louise Hawkins, '49; *LA*; Tupper Lake, N. Y.
- Richard Carmen Hay, '46; *Med*; Burlington
- Mary Celestine Hayes, '47; *LA*; Bellows Falls
- Charles Leavitt Hayward, '49; *Ag*; Chelsea
- Merle Ruth Hayward, '48; *EIEd*; Marshfield
- Elizabeth Knox Hazelton, '49; *NEd*; Rutherford, N. J.
- Jane Johnson Hazen, '48; *LA*; Waterbury, Conn.
- Lloyd Norman Hazen, '47; *Med*; Richmond
- Frances Camp Headley, '49; *LA*; Basking Ridge, N. J.
- Eloise Genevieve Heath, '47; *LA*; Burlington
- Roslyn Hecker, '48; *LA*; Springfield, Mass.
- Frank Hedrich, '46; *Cb*; Union City, N. J.
- Esther Ruth Hellerman, '47; *LA*; Brooklyn, N. Y.
- Frank Ward Hendee, '48; *ME*; Burlington
- Anna Mansfield Henderson, '49; *MT*; New Canaan, Conn.
- Mary Jean Henderson, '49; *HE*; Birmingham, Mich.
- Nellie Alberta Herrmann, *PG*; Rutland
- Raymond Dyer Higgins, '48; *Med*; Dennysville, Me.
- Aquilino Bernolo Higuera, '49; *LA*; Montpelier
- Elizabeth Ann Hill, '47; *LA*; Bristol
- Ruth Marjorie Hill, '49; *HE*; Burlington
- Beverly Marie Hillmann, '49; *LA*; Salisbury
- Helen Elizabeth Hitchcock, '49; *LA*; Manchester Center
- Doris Lorene Hoffnagle, '49; *LA*; New Haven
- William Edward Hogan, '49; *LA*; Woburn, Mass.
- Thomas Murray Holcomb, '47; *Med*; Burlington
- Frederick Lincoln Holden, '49; *CE*; New Haven
- John Kenneth Holden, '46; *Ag*; Burlington
- Marilyn Holden, '47; *MEd*; New Haven
- Dorothy Mae Hollender, '47; *EIEd*; Metuchen, N. J.
- Margaret Ann Holloway, '47; *LA*; Snow Hill, Md.
- Doris Leigh Holmberg, '48; *LA*; New Rochelle, N. Y.
- Roger William Holmes, '49; *EE*; Johnson
- Mary Theresa Hooper, '49; *EIEd*; Burlington
- Anne Louise Hoos, '46; *LA*; Union, N. J.
- Iola Wanda Hopkinson, '46; *Sec*; Lewiston, Me.
- William James Hoppe, '49; *EE*; Kensington, Conn.
- Beverly Elaine Hopwood, '49; *ME*; Montpelier
- Lloyd Malcolm Horlick, '48; *Med*; Everett, Mass.
- Doris H. Hovey, R.N., *Sp,NEd*; Burlington
- Joanne Howard, '48; *LA*; Eggertsville, N. Y.
- Luke Amos Howe, '49; *LA*; Tunbridge

- Jeanne Laura Howland, '48; *SEd*; Brandon  
 Rose Helen Howrigan, '49; *EEd*; Fairfield  
 Stedman George Huard, '46; *Med*; Burlington  
 Franklin Kittridge Hudson, '49; *Med*; Pittsford  
 Donald Walter Humphreys, '47; *Med*; Bennington  
 Roderick Julius Humphreys, '47; *Med*; Bennington  
 Julia Lucy Hurley, '48; *LA*; Spring Valley, N. Y.  
 Eleanor Hurwitz, '48; *LA*; Chelsea  
 Audrey Jean Hutchins, '48; *Sec*; Malone, N. Y.  
 Barbara Ann Hutchins, '49; *LA*; Reading, Mass.  
 Barbara Brooks Hutchins, '48; *HE*; Union, Me.  
 Ruth Catherine Hutchinson, *Sp,NED*; East Corinth  
 Jean Eloise Ickter, *Sp,NED*; Burlington  
 Anne Greenwood Illingworth, '49; *MED*; Bellows Falls  
 Peggy Ingalls, '49; *LA*; Bar Harbor, Me.  
 Wilmot Wheeler Irish, '49; *Ag*; Shelburne  
 Charles Irwin, '46; *Med*; New London, Conn.  
 Theodore Irwin, '49; *LA*; New London, Conn.  
 Patrick Anthony Izzo, '46; *Med*; Quechee  
 Crystal Jackson, '49; *EEd*; Richmond  
 Isabel Lucy Jackson, '46; *LA*; Beebe Plain  
 Madelaine Ann Jackson, '49; *LA*; Great Neck, L. I.  
 Evelyn Mavis Jacobs, '49; *LA*; Newark, N. J.  
 Robert John Jake, '49; *Med*; Milwaukee, Wis.  
 Millicent Ellen James, '49; *LA*; Middlebury  
 Ruth Doris Jandorek, '47; *Cb*; Brooklyn, N. Y.  
 Lorraine Alberta Jaques, '47; *HE*; Huntington  
 Frank Joseph Jasinski, '49; *Med*; New Britain, Conn.  
 Lois Jane Jenkin, '49; *CT*; East Ryegate  
 Joan Marilyn Jenkins, '49; *LA*; Burlington  
 Philip Howard Johnson, '49; *LA*; Wellesley, Mass.  
 Priscilla Sadler Johnson, '49; *Cb*; South Attleboro, Mass.  
 Jocelyn Loveaire Johnston, '49; *HE*; Great Neck, L. I.  
 Edwin Francis Jones, '48; *Med*; Oakland, Calif.  
 Patricia Marion Jones, '48; *EEd*; Winchendon, Mass.  
 Wallace Davies Jones, Jr., '47; *LA*; Meriden, N. H.  
 Eleanor Mary Jordan, '49; *MT*; Milton  
 Louise Hovey Jordan, '47; *LA*; Burlington  
 Priscilla Skinner Joslin, '47; *EEd*; Waitfield  
 Ann Elizabeth Joy, '49; *LA*; Waterbury, Conn.  
 Lenore Kahane, '47; *LA*; Forest Hills, N. Y.  
 Edward Maurice Kaitz, '49; *LA*; Newton, Mass.  
 Bernard Joseph Kaplan, '49; *Med*; Hartford, Conn.  
 Lorraine Heath Kaplan, '46; *LA*; Hartford, Conn.  
 Louise Benner Karraker, '47; *LA*; Lewisburg, Pa.  
 Pauline Kartalos, '47; *LA*; Clinton, Mass.  
 Milton Reuben Kaufman, '48; *Med*; Mountaintdale, N. Y.  
 Adele Sheila Kaye, '49; *LA*; Newton Center, Mass.  
 Bernard Marvin Kaye, '47; *Med*; Brandon  
 Marguerite Esther Kebrek, '49; *NED*; Bristol, R. I.  
 Rita Claire Keefe, '48; *EEd*; Barre.  
 Leah Maitland Kever, '47; *LA*; Auburn-dale, Mass.  
 Thomas Joseph Keighley, '46; *Med*; Burlington  
 Betty-Ann Kelley, '49; *LA*; St. Albans  
 Carolyn Elizabeth Kelley, '48; *SEd*; Wallingford  
 Elizabeth Lyons Kelley (Mrs.), '46; *LA*; Washington, D. C.  
 Stanley Marshal Kemler, '46; *Med*; Medford, Mass.  
 David Samuel Kenet, '47; *Med*; Springfield  
 Thomas Henry Kent, '49; *LA*; North Bennington  
 Alvin Eugene Kerstein, '49; *LA*; Bridgeport, Conn.

- Louise Bird Kiely, '49; *LA*; Union City, Conn.
- Barbara Kilborn, '47; *NED*; Newport
- Janet May Killary, '49; *LA*; Burlington
- Cecil Henry Kimball, '48; *Med*; Burlington
- Wayne Curtis Kimball, '49; *ME*; Burlington
- Jane Elizabeth King, '49; *LA*; Barre
- Kathryn Elizabeth King, '49; *LA*; Rutland
- Rachel Elsie Kinne, '49; *HE*; Newport Center
- Albert Clark Kinney, Jr., '46; *Med*; Hardwick
- Betsy Ella Kipp, '47; *LA*; Orleans
- Priscilla Alden Klain, '48; *ELED*; Stetton, N. J.
- Theodore Augur Koch, *Uncl, Sp*; Schenectady, N. Y.
- Elinor Konowitz, '46; *LA*; Brookline, Mass.
- Franklin Peter Krug, '49; *ME*; Westmount, Quebec
- Mary Elizabeth Kuruc, '46; *LA*; Bridgeport, Conn.
- Frank Howard Lackey, '49; *Bus*; Montpelier
- Nancy Ladd, '47; *ELED*; Belmont, Mass.
- Elton Benjamin Lahar, '49; *Med*; Concord, N. H.
- Rachel Norma Lamper, *Sp, NED*; Rochester, N. H.
- Marion Cornelia Lamson, '48; *LA*; Chester
- Robert Eugene Lanou, Jr., '49; *ME*; Burlington
- John Clifford Lantman, '47; *LA*; Hinesburg
- Marie Jeanne Lapiere, '48; *LA*; East Hampton, Mass.
- Amelia Lillian LaRose, '48; *ELED*; Burlington
- Florence Gertrude Larrabee, '48; *SED*; Hartland
- Margaret Beryle Larrabee, '48; *LA*; Hardwick
- Harvey Malcolm LaTerre, '49; *SED*; Wilmington
- Christobel Elaine Latham, '47; *LA*; Milton
- Kathleen Eudora Laughlin, '49; *ME*; Granby, Conn.
- Arthur Gregory Law, '49; *Med*; Washington, D. C.
- Barbara Fuller Law, '46; *HE*; Springfield, Mass.
- Frances Jean Lawliss, '46; *LA*; Richford
- Marie Elizabeth Lawlor, '48; *LA*; Burlington
- Peggy Ann Lawlor, '49; *LA*; Burlington
- Ermont Miller Lawrence, '48; *Ag*; Burlington
- Hester Irene Lawrence, '49; *HE*; North Ferrisburg
- James Calvin Lawyer, '49; *Ag*; Richford
- Sherwood Olive Lay, '49; *LA*; Island Pond
- John Clay Leak, '49; *Cb*; Washington, D. C.
- Marilyn Alice Leathers, '48; *LA*; Nashua, N. H.
- Carol Styra Leavitt, '49; *LA*; Brooklyn, N. Y.
- Mary Backer LeFevre (Mrs.), '46; *LA*; Burlington
- Jacqueline Marion LeMay, '47; *Cb*; Burlington
- Rena Margarida LeSueur, '49; *NED*; Portland, Me.
- Harriet Lenore Levenson, '48; *CT*; Stamford, Conn.
- Joan Rita Levin, '47; *LA*; Newark, N. J.
- Gladys Alicia Levine, '47; *LA*; Cos Cob, Conn.
- Julian Levine, '48; *LA*; Burlington
- Betty-Rose Levy, '48; *LA*; New York City
- Marion Ruth Lewis, '47; *ELED*; Woodstock
- Ruth Vaughan Lewis, '49; *LA*; Hastings-on-Hudson, N. Y.
- Evelyn Limenfeld, '48; *Sec*; New York, N. Y.
- Doris Josephine Lindecrantz, '47; *HE*; Worcester, Mass.
- Robert William Linchan, '47; *Med*; Glens Falls, N. Y.
- Lois Julia Linn, '48; *NED*; New Britain, Conn.
- Miriam Lipman, '46; *LA*; West Hartford, Conn.
- Theresa Pauline Litster, '49; *SED*; North Pownal
- Mary Jane Little, '46; *Bus*; Rochester, N. Y.
- James Andrew Long, '48; *Med*; Bristol
- Claire Annette Longevin, *Sp, NED*; Randolph

- Yolanda Ann Lopardo, '48; *LA*; North Adams, Mass.
- Aldis Stone Lovell, '49; *ELED*; Bellows Falls
- Dorothy Ann Lowell, '48; *LA*; Berlin, Conn.
- Anne Theresa Lundergan, '48; *LA*; Bennington
- Martha Perry Lyon, '46; *ELED*; St. Albans
- Mary Desmond McBratney, '49; *Ch*; Verona, N. J.
- Patricia Louise McCarl, '49; *LA*; Ridge-wood, N. J.
- Patrick Francis McCormack, Jr., '49; *Med*; West Rutland
- Jacqueline McCormick, '49; *Med*; St. Albans
- John James McCutchen, Jr., '49; *Med*; Elizabeth, N. J.
- Howard Hodgson MacDougall, '47; *Med*; Hammondon, N. J.
- John Francis McGarry, '46; *Med*; Proctor
- Rita Catherine McGarry, '47; *HE*; Proctor
- James Bishop McGill, '46; *Med*; St. Johnsbury
- Kathryn May McGillicuddy, '46; *LA*; Burlington
- Patricia Ann McGinnis, '49; *LA*; Brattleboro
- John Joseph McGrath, '46; *Med*; Adams, Mass.
- Henry Peter McGreevy, '49; *LA*; Poultney
- Anne McGuiggan, '49; *LA*; Massena, N. Y.
- Edith Elsie McLaren, '47; *Sec*; Balboa, Canal Zone
- Arthur William McMahan, '49; *Med*; Portsmouth, N. H.
- Alice May McNamara (Mrs.), '48; *LA*; Burlington
- Harry Cyril McNamara, '47; *Med*; Valatie, N. Y.
- Nancy McNamara, '46; *HE*; Burlington
- Jane Frances McNeill, '46; *LA*; Beacon, N. Y.
- Donald Jude MacPherson, '48; *Med*; Lynn, Mass.
- Donald Rathbun McRell, '47; *LA*; Pittsfield, Mass.
- Sam Vincent Mace, '49; *Ag*; Ferrisburg
- Harmon Jack Machanic, '46; *Med*; Burlington
- Helen Wolf Machanic (Mrs.), '46; *SED*; Burlington
- Elizabeth Ann Mack, '49; *LA*; Chappaqua, N. Y.
- Barbara Therese Magee, '48; *LA*; Sagaponack, N. Y.
- Leon Royce Magnant, '49; *ME*; Franklin
- Peter Saltonstall Mallett, '47; *LA*; Garden City, N. Y.
- Patricia Frances Malmquist, '49; *LA*; Post Mills
- Crystal Ellen Malone, '47; *Sec*; Washington, D. C.
- Harold John Malone, '49; *Med*; New Britain, Conn.
- Millicent Cecelia Mandel, '47; *LA*; Port Chester, N. Y.
- Gilbert Manheim, '46; *Med*; Burlington
- Richard Charles Manjoney, '47; *LA*; Bridgeport, Conn.
- Vincent August Manjoney, '46; *Med*; Bridgeport, Conn.
- Mary Gretchen Manning, '47; *LA*; Lynn, Mass.
- Betty Kellogg Mansfield, '46; *LA*; Verona, N. J.
- Katherine Inez Marcott, '47; *LA*; Arlington, Mass.
- Maxine Louise Margolis, '48; *LA*; Waterbury, Conn.
- Rose Margulis, '47; *ELED*; Burlington
- Joan Seiler Marker, '49; *LA*; Upper Montclair, N. J.
- Winifred Marsh, '47; *LA*; Burlington
- Marian Marshall, '49; *LA*; Fishers Island, N. Y.
- Catherine Joan Martel, '49; *ELED*; Burlington
- Gladys Ardell Martell, '49; *HE*; Alburg
- Joyce Mildred Marx, '48; *LA*; Burlington
- Grant Herbert Mason, '49; *Ag*; Brunswick
- Ruth Chandler Mason, '49; *HE*; Lyndon Center
- Marie Clarice Matthews, '49; *HE*; Great Neck, N. Y.
- William Ronald Matthews, '49; *LA*; Rutland
- Harold Albert Mayforth, Jr., '49; *ME*; Dayton, Ohio
- Philip Wallace Mayo, '47; *Med*; Burlington
- Joseph Mele, '49; *LA*; Malletts Bay

- Carolyn Nellie Merriam, '49; *LA*; Rochester
- June Delight Merrihew, '46; *EIEd*; Burlington
- Everett Perkins Merrill '48; *Ag*; Craftsbury
- Premo Romano Merusi, '49; *LA*; Randolph
- Sara Jean Merwin, '47; *Sec*; Rutherford, N. J.
- Albert Clinton Metcalf, '48; *LA*; Burlington
- Edwin David Meyers, '48; *Med*; Manchester Depot
- Joan Cecile Meyn, '49; *EIEd*; Pleasantville, N. Y.
- Marilyn June Millar, '49; *Bus*; Detroit, Mich.
- Alice Lynette Miller, '46; *HE*; Greensboro
- Audrey Ellen Miller, '48; *LA*; Burlington
- Flora Mary Miller, '49; *EIEd*; Greensboro
- Mildred Lois Miller, '49; *MT*; Burlington
- Ruth Wyeth Millington (Mrs.), *Uncl,Sp*; Burlington
- Marilyn Mills, '48; *LA*; West Hartford, Conn.
- Leroy Cooper Milner, '47; *SEd*; Winooski
- June Irene Mitchell, *Sp,NEd*; Burke, N. Y.
- Mary Elizabeth Mitiguy, '47; *Sec*; Burlington
- David Danny Monieson, '49; *LA*; Outremont, Quebec.
- Beverly Mae Montague, *Uncl,Sp*; Burlington
- Julia Ellen Montgomery, '48; *MED*; Morrisville
- William Wayne Montgomery, '47; *Med*; West Rutland
- Betty Ann Moodie, '49; *HE*; Huntington, L. I.
- Mildred Caroline Moody, '48; *Ag*; Burlington
- Barbara Frances Morgan, '46; *EIEd*; Bennington
- James Patrick Moriarty, '47; *Med*; Springfield, Mass.
- Mary Elizabeth Morrill, *Uncl,Sp*; Augusta, Me.
- Olive Mae Morris, '46; *LA*; Poultney
- Robert William Morris, '46; *Bus*; Vergennes
- Eugene Francis Morrissey, '49; *CE*; Burlington
- Clyde Robert Morron, '47; *Med*; Rutland
- Catherine Elizabeth Morse, '46; *SEd*; West Stewartstown, N. H.
- Maurice Dayton Mosher, '49; *CE*; Newport
- Merle Joyce Moulton, '48; *EIEd*; Shelburne
- Elizabeth Whitcomb Moynan, '49; *MT*; Richford
- Paul Victor Mravlag, II, '49; *LA*; South Orange, N. J.
- Florence Avery Mueller, '48; *HE*; Great Neck, N. Y.
- Claire Rosemary Muldoon, '48; *CT*; St. Albans
- Thomas Patrick Mullaney, Jr., '46; *Med*; Barton
- Bernard H. Munson, *Uncl,Sp*; Burlington
- Wilma Helen Murphy, '49; *HE*; Burlington
- Rachel Alberta Murray, '46; *HE*; Charlotte
- Elisabeth Mary Naess, '46; *MED*; Ludlow
- Ann Pearsons Neal (Mrs.), '47; *LA*; Ludlow
- Ronald Howard Neal, '47; *Med*; Laconia, N. H.
- James Ryder Neary, '46; *Med*; Burlington
- Gladys E. Neiburg, '49; *LA*; St. Albans
- Marjorie Lou Nelson, '47; *LA*; Woodstock
- Robert Walter Nelson, '49; *Bus*; Cromwell, Conn.
- Barbara Jean Newlander, '48; *HE*; Burlington
- Aileen Margaret Nichols, '48; *HE*; Delmar, N. Y.
- John Edwin Nichols, '46; *Med*; Rutland
- Mary Helen Nisun, '47; *MT*; Middlebury
- Ann Lefingwell Noble, '46; *HE*; Bethel
- Brian Edward Nolan, '47; *Med*; Newton Highlands, Mass.
- Robert Kay Nolan, '48; *Med*; Norwich, Conn.
- Mildred Edith Norrie, '48; *CT*; Barre
- Eugene Tuck Northrop, '49; *MT*; Watertown, N. Y.
- Dorothy Alice Nye, '49; *EIEd*; Burlington
- Ellis O'Brien, *Uncl,Sp*; South Orange, N. J.
- Jane Terase O'Brien, '49; *MED*; North Walpole, N. H.
- June Marie Olie, '49; *MT*; Bristol, Conn.



- Evelyn Louise Olsen, '47; *NEd*; Burlington  
 Anna Marie Olson, '49; *EEd*; Stowe  
 Lisa Marie Olsson, '47; *LA*; Brooklyn, N. Y.  
 Concettina Marie Orsi, '49; *LA*; Winsted, Conn.  
 Phyllis Woodbury Page, '48; *LA*; Burlington  
 Herman Mayer Paikowsky, '49; *LA*; Burlington  
 Richard Alton Paine, '47; *Cb*; St. Johnsbury  
 Pauline Mildred Palin, '48; *NEd*; Derby Line  
 Carmen Mary Pallotta, '49; *Med*; Ludlow  
 Chen-Li Pang, *PG*; Burlington  
 John George Pappas, '49; *ME*; Somerville, Mass.  
 Theresa Mary Paquin, '48; *EEd*; St. Albans  
 James Franklin Paradis, '49; *ME*; St. Johnsbury  
 Douglas Gabriel Parizeau, '46; *LA*; Westfield, N. J.  
 Blanche Lena Parker, '48; *HE*; Norwich  
 Gilbert Harold Parker, '48; *Ag*; East Wallingford  
 Marion Christine Parker, '47; *EEd*; Montpelier  
 Gerald Francis Parkhurst, '46; *Med*; Burlington  
 Joan Parkhurst, '48; *HE*; West Hartford, Conn.  
 Kenneth Arnold Parmelee, '47; *Med*; Stratford, Conn.  
 Barbara Elizabeth Parott, '48; *HE*; Burlington  
 Barbara Jean Parrow, '49; *SEd*; Jericho  
 Helen Lauretta Partridge, '46; *LA*; West Hartford, Conn.  
 Shirley Mae Partridge, '48; *LA*; Winchester, N. H.  
 Vernah Louise Partridge, *Sp,NEd*; Barre  
 David Willis Patch, '49; *LA*; Windsor  
 John Cochrane Patten, '47; *Med*; Claremont, N. H.  
 Marion Elizabeth Patterson, '47; *CT*; Willsboro, N. Y.  
 Elinor Betty Paul, '48; *LA*; Albany, N. Y.  
 Malcolm Jack Paulsen, '48; *Med*; Danville  
 Edith Frances Payzont (Mrs.), *Uncl,Sp*; Winooski  
 Mary Gertrude Pease, '47; *LA*; Bethel  
 Paul William Pease, '49; *CE*; Burlington  
 Geoffrey Ware Pelletier, Jr., '49; *Cb*; Rockville Center, N. Y.  
 Hannah Hildreth Pendergast, '49; *Med*; University Park, Md.  
 Malcolm Irwin Penn, '49; *LA*; Norwichtown, Conn.  
 Marie Therese Perron, '47; *LA*; Holyoke, Mass.  
 Kenneth Harold Perry, '49; *ME*; Waterbury  
 Marden Leon Perry, '49; *SEd*; Jamaica.  
 John Hollister Perry-Hooker, '47; *Med*; Wells River  
 Carol Lou Peterson, '48; *LA*; West Englewood, N. J.  
 Barbara Coffin Picard, '49; *LA*; Beacon, N. Y.  
 Eileen Margaret Pickett, '47; *CT*; Glens Falls, N. Y.  
 Kenneth William Pierce, '49; *ME*; Montpelier  
 Mary Louise Pierce, '46; *LA*; Montpelier  
 Elizabeth Jean Pierson, '48; *EEd*; Bradford  
 Morris Donald Pike, '49; *LA*; Stowe  
 Frank Ivan Pitkin, '49; *Med*; Montpelier  
 Eschol Gladys Pixley, '48; *LA*; South Strafford  
 Mary Christina Plante, '49; *CT*; Hinesburg  
 Jay Roger Plimpton, '46; *Med*; Harrison, N. Y.  
 Thomas Rider Plowright, '47; *Med*; Burlington  
 Charlotte Edith Plumb, '49; *HE*; Springfield  
 Charles Arthur Plumley, '46; *ME*; Ludlow  
 Elaine Hattie Plumly, '48; *HE*; Pittsfield, Me.  
 Suzanne Ruth Poljacak, '48; *NEd*; Florence  
 Frank Joseph Poplawski, '49; *EE*; Winooski  
 Deena Selma Pord, '47; *LA*; Malden, Mass.  
 Ruth Macauley Post, '47; *LA*; Burlington  
 Barbara Nettie Powers, '46; *LA*; Brattleboro

- Virginia Field Powers, '49; *ELED*; Vergennes
- Marie Josephine Powers, '49; *LA*; North Bennington
- Matilda Jane Pratt, '49; *ELED*; Gaysville
- Joyce Elaine Prescott '49; *ELED*; Randolph Center
- Norma Kathleen Prescott, '46; *ELED*; St. Johnsbury Center
- Patricia Mary Prescott, '48; *ELED*; Randolph Center
- Phyllis Ann Prescott, '48; *ELED*; Randolph Center
- Shirley Geraldine Price, '47; *Med*; Springfield
- Donald William Prim, *Uncl,Sp*; Burlington
- Margaret Patricia Pringle, '47; *LA*; Utica, N. Y.
- Glenna Marie Proctor, *Uncl,Sp*; Burlington ton
- Ronda Helen Prouty, '47; *HE*; West Hartford, Conn.
- Ethel Evelyn Provost, '48; *NED*; Northfield
- Samuel Robert Pulleyn, '46; *Bus*; New York City
- Margaret Louise Putnam, '48; *LA*; Bethel
- Stanley Melvin Rapoport, '46; *Med*; New York, N. Y.
- Lita Rappaport, '48; *LA*; Mt. Vernon, N. Y.
- Alberta Martha Read, '46; *HE*; East Fairfield
- John Francis Reagan, Jr., '48; *LA*; Medford, Mass.
- Albert Stephen Redway, '49; *SED*; New Haven, Conn.
- Irene Catherine Reed, '46; *LA*; Burlington
- Florence Esther Reid, '46; *SED*; Burlington ton
- Gretchen Relyea, '48; *LA*; Berlin, Conn.
- Sylvia Reynolds, '49; *NED*; Longmeadow, Mass.
- Earle Winslow Rice, '49; *Med*; Worcester, Mass.
- Gwendolyn Muriel Richardson, '48; *HE*; Montreal, Quebec
- Barbara Ann Richmann, '49; *LA*; New Haven, Conn.
- Claire Alene Riggs, '48; *NED*; Richmond
- Robert George Ripper, '47; *LA*; Burlington ton
- Edith Paula Robbins, '47; *Ag*; New York City
- Jane Wolcott Robbins, '48; *LA*; Schenectady, N. Y.
- Marsha Gayle Roberts (Mrs.), *Uncl,Sp*; Burlington
- John Willoughby Robinson, *PG*; Bellows Falls
- Kenneth Tobias Robinson, '49; *EE*; Burlington
- Mary Louise Robinson, '46; *LA*; Burlington ton
- Donald Edward Rock, '49; *Med*; Ludlow
- Barbara Aileen Rodger, '49; *Cb*; West Danville
- Elizabeth Teresa Rome, '46; *MEd*; Dobbs Ferry, N. Y.
- Newman Rome, '49; *LA*; Rutland
- Henry Thomas Rondeau, '47; *LA*; Burlington
- Kay A. Rood, '49; *LA*; Franklin, Mass.
- Marion Eva Rosenhain, '47; *LA*; Forest Hills, N. Y.
- Robert Myer Rosenberg, Jr., '46; *Bus*; Burlington
- Kathleen Grace Rosoff, '48; *LA*; Morristown, N. J.
- Anita Ross, '47; *LA*; Burlington
- Dorothy Margaret Ross, '49; *LA*; Barre
- Gail Elaine Rowell, '49; *ELED*; Tunbridge
- Margaret Anne Rowell, '48; *LA*; Newport
- Louis Michael Rozek, '46; *Med*; Berlin, N. H.
- Virginia St. Germain Rozek (Mrs.), '46; *LA*; Berlin, N. H.
- Elizabeth Ann Rublee, '47; *HE*; Newport
- Novello Egidio Ruggiero, '49; *LA*; Waterbury, Conn.
- Marjorie Lillian Rumph, '46; *LA*; Far Rockaway, L. I., N. Y.
- Edwin Orvis Russell, '48; *Ag*; Bristol
- Marylee Eliza Russell, '46; *LA*; North Ferrisburg.
- Helen Bedor Rutledge, '49; *Sec*; Fairlee
- Jane Ann Rutter, '48; *LA*; Burlington
- Jean Margaret Ryan, '47; *MT*; Brattleboro
- Margaret Mary Ryan, '48; *LA*; Enosburg Falls
- George Lewis Saiger, '47; *Med*; Burlington
- Gracelyn Mary St. Claire, *NED*; Whitehall, N. Y.
- Sister St. Joseph, *Sp,NED*; Burlington

- Elizabeth Ruth St. Mary, '49; *Sec*; Springfield
- Natalie Jane Salls, '48; *NEd*; East Hartford, Conn.
- Caroline Humphries Sanford, '49; *HE*; Walpole, Mass.
- Marilyn Claire Sanguinetti, '49; *HE*; Barre
- Edward Jean Saridaki, '49; *Bus*; Rio de Janeiro, Brazil
- Lincoln Harry Sawyer, '49; *Bus*; Whitingham
- Leo James Schildhaus, '49; *Med*; Burlington
- Maud Elsa Schoelles, '46; *Bus*; Glen Cove, N. Y.
- Olga Amelia Schoelles, '46; *Bus*; Glen Cove, N. Y.
- Paul Leonard Schoenberg, '48; *Med*; New York City
- Ruth Elizabeth Schoppe, '46; *LA*; Canaan
- John Albert Schwenker, '48; *Bus*; Cradell, N. J.
- Betty-Anne Scott, '47; *EEd*; Bennington
- Dorothy Fisher Scott, '48; *LA*; Birmingham, Mich.
- Angeline Scutakes, '48; *Sec*; Burlington
- Beatrice Evelyn Sears, *Sp,Ned*; Burlington
- Victor Joseph Serino, '47; *MT*; Bridgeport, Conn.
- Bernice Edith Severance, '49; *MT*; Burlington
- Roger Warren Sevy, '49; *Med*; Salt Lake City, Utah
- James Charley Shadyac, '49; *LA*; Barre
- Richard Marvin Shangraw, '49; *LA*; St. Albans
- Jean Shaw, '49; *Ch*; Rye, N. Y.
- Martha Churchill Shaw, '48; *MT*; Verona, N. J.
- Patricia Elizabeth Sheffert, '48; *EEd*; Englewood, N. J.
- Hilary Lee Shelvin, '46; *SEd*; Brighton, Mass.
- Suzanne Shepard, '48; *HE*; Gardner, Mass.
- Sydell Rose Sherman, '48; *LA*; Brooklyn, N. Y.
- Viva Gene Sherover, '47; *EEd*; New York City
- Edward Silliman Sherwood, '49; *Med*; Mt. Vernon, N. Y.
- Zola Rae Shipman, '49; *LA*; Potsdam, N. Y.
- Louise Isabel Shopis, '48; *LA*; Bridgeport, Conn.
- Charles Ambrose Shortle, Jr., '47; *Bus*; Burlington
- Gladys Irma Shurberg, '49; *LA*; New Britain, Conn.
- Louise Wallace Shutler, '46; *LA*; Northfield
- Amanda Zardecki Shuttleworth (Mrs.), '46; *Bus*; Belvidere, N. J.
- William Vincent Shyne, Jr., '49; *Med*; Norwood, Mass.
- Deborah Morgan Sibley, '46; *EEd*; Bennington
- John Stephen Sickles, '49; *Med*; Pearl River, N. Y.
- Rita Mae Silverberg, '49; *LA*; Jamaica, N. Y.
- Emilie Juliette Silverman, '49; *LA*; Newark, N. J.
- Eunice Marie Simmons, '49; *Med*; Montpelier
- Anita Louise Smith, '47; *MEd*; Hyde Park
- Barbara Smith, '48; *LA*; Westfield, N. J.
- Emma Jane Smith, '49; *LA*; Hacketts-town, N. J.
- Frederick Edward Smith, '48; *Med*; Springfield
- Jane Louise Smith, '47; *HE*; Forest Hills, N. Y.
- Lydia Clarke Smith, '46; *LA*; Stamford, Conn.
- Mary Ann Smith, '48; *LA*; Hackettstown, N. J.
- Stuart James Smith, '49; *LA*; Burlington
- Vernon Wilber Smith, '49; *LA*; Underhill
- Delia Kingsbury Snell, '46; *ME*; Cambridge
- Elizabeth Ann Snell, '49; *HE*; Cambridge
- Barbara Florence Snetsinger, '47; *EEd*; Montpelier
- Irene Frances Socinski, '48; *HE*; West Rutland
- Selma Sally Sondik, '47; *LA*; West Hartford, Conn.
- Jeanette Elizabeth Sorn, '48; *LA*; Bala-Cynwyd, Pa.
- Jeanette Soulis, '48; *MEd*; Highland Park, Mich.
- Jean Margaret Spalding, '48; *LA*; Wethersfield, Conn.

- Carleton Whittemore Sprague, '49; *ME*; Bristol
- Ruth Marie Sprague, '49; *Ag*; Plainfield
- Marilyn Rivers Sprigg, '49; *LA*; Montvale, N. J.
- Harriet Bertha Squires, '48; *NEd*; East Arlington
- John Peter Stacy, '49; *Bus*; Charlotte.
- Mary Helen Stamatiades, '49; *LA*; Brush-ton, N. Y.
- Alison Celia Stead, '48; *LA*; Burlington
- Jean Sally Stebbins, '49; *LA*; Saranac Lake, N. Y.
- Howard Simon Stein, '46; *LA*; Brooklyn, N. Y.
- Norma Alice Stephenson, '49; *HE*; Lowell
- Francis Roger Sterling, '48; *Med*; Providence, R. I.
- Joanne Stevens, '47; *LA*; Worcester, Mass.
- Lois Edith Stevens, '47; *LA*; New Haven
- Vaughan Orvis Stevens, *Sp,Uncl*; Springfield
- Charles Edward Stewart, '49; *Ag*; Shelburne
- Lucy Ellen Stewart, '48; *EIEd*; Shelburne
- Gwendolyn Mary Stiles, '48; *Sec*; Burlington
- Mildred Kate Stine, '49; *LA*; White Plains, N. Y.
- Geraldine Kolin Stokes, '46; *Med*; Waitsfield
- Harlan Edgerton Storrs, Jr., '48; *CE*; Williamstown
- Robert Alden Struthers, '47; *Med*; Portland, Ore.
- Harriet Theresa Sullivan, '49; *Med*; Brooklyn, N. Y.
- Rose Katherine Sullivan, '47; *EIEd*; Bel-lows Falls
- Robert Stockwell Sumner, '49; *Bus*; Wilder
- Ruth Doris Supiro, '48; *LA*; Reading, Pa.
- Alfred Gould Susslin, '49; *LA*; St. Albans
- Arabelle Sutter, '49; *LA*; New Milford, N. J.
- Jacquelin Frances Swasey, '46; *LA*; Cor-nish, Me.
- Mary Lou Sweet, '49; *SEd*; Champlain, N. Y.
- Enhew Sycz, '49; *Med*; Ravenna, Ohio
- James Glendon Sykes, '49; *Ag*; Brownsville
- Saturnina Helena Szabolinski, '48; *Sec*; Springfield
- Phoebe Abigail Taisey, *Sp,NEd*; Burlington
- Robert Dow Taisey, '49; *LA*; North Troy
- Patricia Elaine Tator, '48; *MEd*; Worces-ter, Mass.
- Joanna Nichols Taylor, '49; *Ag*; Syosset, N. Y.
- Mary Jane Lewis Taylor (Mrs.), '48; *LA*; Buffalo, N. Y.
- Wilfred Louis Thabault, '48; *Med*; Winoo-ski
- George Alan Thomas, '49; *LA*; Burlington
- LeGrand Henry Thomas, '47; *Med*; Bur-lington
- Gail Thompson, '46; *Sec*; Worcester, Mass.
- Leona Kathryn Thompson, '49; *EIEd*; Bristol
- Patricia Anne Thompson, '49; *LA*; More-town
- Ruth Elizabeth Thompson, '49; *HE*; Rut-land
- Theda Eliza Thompson, '47; *EIEd*; Bristol
- Charles Main Thomson, Jr., '47; *EE*; Haverhill, Mass.
- Lucianna Thornton, '49; *LA*; Burlington
- Mary Jane Thornton, '46; *LA*; Burlington
- Margaret Alice Thurstone, '49; *LA*; Buf-falo, N. Y.
- James William Tierney, '48; *Med*; Bur-lington
- Nancy Coppee Tobey, '49; *LA*; Brandon
- Virginia Marriott Tolson, '49; *HE,Sp*; New York, N. Y.
- Eugene Randolph Tompkins, Jr., '49; *Med*; Hartford, Conn.
- Lila Toomin, '49; *LA*; Newark, N. J.
- Elizabeth Jane Towle, '47; *LA*; Newport
- Ethelda Beth Towle, '49; *SEd*; Hyde Park
- Ida Mae Towne, '48; *SEd*; Morrisville
- Phyllis Elizabeth Towne, '47; *EIEd*; New-port
- Mildred Trachtenberg, '47; *LA*; Brooklyn, N. Y.
- Irwin Merrill Tracey, '48; *Bus*; Burlington
- Frederick Henry Treder, '47; *Med*; Scotia, N. Y.
- Barbara Mildred Tucker, '48; *LA*; Mel-rose, Mass.
- Lillian Elizabeth Tucker, '49; *LA*; Rich-mond, Va.
- David Chase Tuholski, '46; *LA*; Brockton, Mass.

- Henry Thomas Tulip, '47; *Med*; Burlington
- Ann Harley Tuttle, '48; *HE*; New Rochelle, N. Y.
- Alice Dolores Tyndall, '47; *Med*; Weehawken, N. J.
- Clare Thelma Upson, '48; *NEd*; Jackson Heights, N. Y.
- Irene Alice Urie, '48; *NEd*; Craftsbury Common
- Francis Thomas Usher, '49; *SEd*; Bellows Falls
- Charles Nelson Valade, Jr., '49; *EE*; Burlington
- Silvio Thomas Valente, '49; *LA*; Rutland
- Evelyn Dorothy Valentine, '48; *LA*; Ozone Park, N. Y.
- Margaret Van Arsdale, '48; *LA*; Ozone Park, N. Y.
- Florella Jean Van Hyning, '49; *LA*; Falls Church, Va.
- Camille Gloria Van Nostrand, '48; *LA*; Forest Hills, N. Y.
- Virginia Frances Varney, '47; *LA*; Jericho
- Millicent Elmira Vaughn, '49; *HE*; Arlington
- Carolyn Verber, '48; *LA*; Forest Hills, N. Y.
- Edris Rose Verrall, '48; *LA*; Saco, Me.
- Bernard Edmund Villemaire, '49; *LA*; Burlington
- Concetta Nancy Virgona, '48; *LA*; Beacon, N. Y.
- Joyce Anne Viveni, '49; *LA*; East Orange, N. J.
- Joan Burnie Vollmers, '49; *LA*; Rutherford, N. J.
- Lorene Bessie Vondle, '46; *ElEd*; Stowe
- Rupert Von Trapp, '47; *Med*; Stowe
- Robert Reed Wadlund, '47; *Med*; Wethersfield, Conn.
- Maureen Barbara Wait, '48; *Bus*; Rockville Center, L. I., N. Y.
- Howard Everett Walbridge, '47; *SEd*; Quincy, Mass.
- Richard Carlos Walker, '49; *Cb*; Benson
- Charles Warren Wallace, '49; *EE*; Milinocket, Me.
- Dorothy Ann Wallin, '49; *ElEd*; Hinsdale, Mass.
- Susan Pulleyn Walthew, '48; *LA*; East Hampton, L. I., N. Y.
- Barbara Jean Warren, '48; *LA*; Geneseo, N. Y.
- Jane Lucille Wasik, *Sp,NEd*; West Rutland
- Margaret Linda Waterman, '48; *SEd*; St. Albans
- William Thomas Watt, PG; Burlington
- Margaret Hanna Watts, '46; *LA*; Jamaica
- Anna Capen Webster (Mrs.), '46; *LA*; Randolph
- Myra Joyce Weinberg, '48; *LA*; Springfield, Mass.
- Pearl Lee Weissbard, '46; *LA*; Maplewood, N. J.
- Gerald Lewis Welch, '49; *Bus*; Waterbury
- Philip Henry Welch, '47; *Med*; Milton
- Anne Duncan Weld, '48; *Med*; Northampton, Mass.
- Catherine Lillian Wells, '48; *HE*; Jamaica, N. Y.
- John Willard Wesley, '49; *SEd*; St. Johnsbury
- William Loren West, '47; *Med*; Shelton, Conn.
- Katherine Joan Westwood, '48; *LA*; Elmira, N. Y.
- David Alan Wetherby, III, '48; *EE*; Wallingford
- Lucille Edith Wetherby, '49; *HE*; Wallingford
- Dorothy Katherine Whaley, '47; *ElEd*; St. Johnsbury
- Rebecca Jean Wheatley, '49; *ElEd*; Randolph Center
- Paula Celeste Whelan, '47; *LA*; Orange, N. J.
- Catherine Asenath White, '47; *LA*; Brattleboro
- Jack Carlton White, '49; *LA*; West Chester, Pa.
- Robert Louis White, '49; *Bus*; Barre
- Ruth Margaret White, '46; *HE*; Wallingford
- Margaret Louise Whitman, '49; *ElEd*; Bennington
- Rodman Homer Whitman, '49; *ME*; Richford
- Betty Mae Whitney, '48; *HE*; Stamford
- Royce Ernest Whittier, '48; *Med*; Concord, N. H.
- Grace Marilyn Wieder, '49; *LA*; Long Beach, N. Y.

- Emanuel Wiedman, '47; *LA*; Burlington  
 Melvin Leo Wiedman, '49; *LA*; Burlington  
 William Schaffrath Wiedorn, Jr., '49; *LA*;  
 New Orleans, La.  
 Charles Kenneth Wigin, '49; *LA*; Shore-  
 ham  
 Maud Ann Wiggins, '47; *HE*; Rutland  
 Joyce Edith Wilber, '49; *LA*; Rochester  
 Cynthia May Williams, '49; *HE*; River-  
 dale, N. Y.  
 Thomas Wyckoff Williams, '48; *Med*; Sut-  
 ton, N. H.  
 John Williamson, '49; *LA*; Bayonne, N. J.  
 Sandra Winslow, '49; *Ag*; South Strafford  
 Frances Maybelle Witham, '46; *LA*; Bur-  
 lington  
 John Morgan Wood, '47; *Med*; Hartford,  
 Conn.  
 Kathryn Jean Wood, '49; *Sec*; Burlington  
 Martha Wood, '49; *LA*; Brooklyn Heights,  
 N. Y.  
 Pauline Esther Woodward, '49; *Eled*;  
 Fairfax  
 Robert Leon Wool, '48; *LA*; Burlington  
 Sylvia Ann Wool, '49; *LA*; Burlington  
 Claire Louise Worthiem, '49; *HE*; South  
 Burlington  
 Reginald Worthen, '49; *Bus*; St. Johnsbury  
 Lois Jean Worthley, '47; *Eled*; East  
 Corinth  
 Joyce Arlene Wright, '49; *HE*; Saxtons  
 River  
 Marjorie Anne Wright, '49; *Eled*; Ben-  
 nington  
 Martha Ann Wright, '47; *LA*; Waterbury  
 Phyllis Marion Wright, '47; *HE*; Saxtons  
 River  
 Wendell Philip Wright, '49; *ME*; St.  
 Johnsbury  
 Cynthia Wriston, '48; *Ag*; Highgate  
 Springs  
 Pauline Elizabeth Yasinski (Mrs.), '46;  
*Ned*; Fair Haven  
 Pauline Mary Youcis, '49; *LA*; Plainville,  
 Conn.  
 Betty May Young, '47; *Med*; Baltimore,  
 Md.  
 Mary Elizabeth Young, '48; *LA*; Rutland  
 Edna May Zohman, '48; *LA*; Brooklyn,  
 N. Y.  
 Shirley Lois Zoll, '47; *LA*; Elmhurst,  
 N. Y.  
 Catherine Sanders Zwick, '46; *LA*; New  
 Britain, Conn.

## SUPPLEMENTARY LIST

*Students entering in January, 1946*

- Basil Gordon Abbott, '49; *ME*; Burlington  
 George Wyman Allen, '49; *Ag*; Essex  
 Junction  
 Henry Vernon Atherton, '48; *Ag*; Barton  
 Francis David Auger, '49; *Bus*; Windsor  
 George Francis Babits, '47; *LA*; Greenfield,  
 Mass.  
 Lincoln Cooper Bailey, '49; *LA*; Brockton,  
 Mass.  
 Frank Ralph Baker, '49; *ME*; Wappingers  
 Falls, N. Y.  
 Laurence Havens Ballou, '47; *LA*; Chester  
 Charles Edgar Banghart, '47; *ME*; Doug-  
 laston, L.I., N. Y.  
 Donald Joseph Baril, '49; *ME*; Winooski  
 John Willard Baxendale, '46; *Ag*; Bur-  
 lington  
 Gerard Raymond Belair, '49; *CE*; North  
 Troy  
 Alexander William Bennett, '49; *Ag*;  
 North Pomfret  
 Rene Joseph Berard, '49; *ME*; Williston  
 Robert Edward Berry, '49; *LA*; St. Albans  
 William Charles Bister, '47; *LA*; Jericho  
 Robert Farwell Bliss, Jr., '49; *Bus*; Mont-  
 pelier  
 Howard Philip Bloomenthal, '48; *LA*;  
 Burlington  
 Harry James Bolwell, '49; *ME*; Kearny,  
 N. J.  
 Robert Hiram Brigham, '49; *Ag*; Jericho  
 Robert B. Brock; '47; *SEd*; Groton  
 Donald Nelson Brothers, '49; *LA*; Waits-  
 field  
 Madelyn Naomi Brough, '49; *MEd*; St.  
 Johnsbury  
 Culver Sidney Brown, Jr., '49; *ME*; Gran-  
 ville, N. Y.

- Stewart Clayton Brown, '49; *Bus*; Brockton, Mass.
- Edward Ernest Brownell, '49; *EE*; Lincoln
- Stanton Howard Bryden, '48; *Bus*; Vineyard Haven, Mass.
- Lester Pierce Bryne, Jr., '49; *LA*; White River Junction
- Bernard George Bullis, '49; *Bus*; Burlington
- Lawrence Elliott Burningham, '49; *LA*; Berlin, N. H.
- Neil Irvin Burrington, '49; *CE*; St. Johnsbury
- Leo John Cain, '49; *LA*; Burlington
- Thomas Henry Candon, *PG*; Pittsford
- Mitchell Bresnehan Carey, '48; *LA*; Ludlow
- Warren H. Caryl, '49; *LA*; Brandon
- George Arthur Cayo, '49; *LA*; Burlington
- Raymond Ralph Centybear, '49; *Bus*; Burlington
- Russell James Chase, '49; *Bus*; Lyndonville
- Loren Adams Cheeseman, '49; *Bus*; Burlington
- Thomas Paul Clairmont, '47; *Bus*; Burlington
- Dale Wakeman Clark, '49; *LA*; Burlington
- Arthur Beverley Collier, '49; *Bus*; Great Neck, N. Y.
- George Hubert Collins, '49; *EE*; Burlington
- Walter Bernard Collins, '49; *CE*; West Berkshire
- Warren Baker Collins, '49; *Ag*; Colchester
- Raymond Mark Combs, '49; *LA*; Wallingford, Conn.
- Ralph Wendell Conant, '49; *LA*; Portland, Me.
- Kenneth Philip Congdon, '49; *EE*; Bel-lows Falls
- Wayne Walter Cook, '49; *Ag*; Burlington
- Douglas Robert Corron, '49; *EE*; Enosburg Falls
- James Joseph Crowley, '49; *LA*; New Haven, Conn.
- James William Cummings, '49; *LA*; Buf-falo, N. Y.
- George Peter Cunavelis, '48; *LA*; St. Johnsbury
- George Daly, *Sp, LA*; Burlington
- Donald Roland DeVarney, '49; *CE*; Winooski
- Gerald Francis Dixon, '49; *CE*; St. Albans
- Paul Dondes, '49; *Bus*; Burlington
- William Curtis Dorr, '49; *ME*; Essex Junction
- Helen Alene Durant, '47; *ELED*; East Mid-dlebury
- Douglas William Durkee, '49; *SED*; Post Mills
- Harry John Dzewaltowski, '49; *Bus*; Springfield
- Francelia Mae Connor Earle (Mrs.), '46; *HE*; Burlington
- Harold Francis Edwards, '49; *Bus*; Bur-lington
- Frank Oscar Eklund, '48; *LA*; Rutland
- Elsie Erickson, '49; *ELED*; Montpelier
- Douglas Sanford Ervin, '49; *LA*; Essex Junction
- Bernard Bell Estey, '48; *LA*; Springfield
- Richard McNair Evans, '48; *LA*; Bur-lington
- Clifton D. Farrand, '48; *SED*; Hardwick
- Robert Peter Ferriter, '49; *Bus*; West Springfield, Mass.
- Warren James Field, '49; *EE*; North Fer-risburg
- William Dana Flanders, Jr., '49; *CE*; Ver-gennes
- Richard Harold Flynn, '48; *LA*; North Adams, Mass.
- Roy Warren Fox, '49; *ME*; Morris Plains, N. J.
- Robert Ward Freeman, '49; *Bus*; Ruther-ford, N. J.
- Robert Douglas French, '49; *Bus*; West Springfield, Mass.
- Seward Frederick French, Jr., '49; *SED*; Winchester, Mass.
- Charles Arthur Frenette, *Sp, Bus*; Barre
- John Donlin Furkey, '47; *Sp, Bus*; Bur-lington
- Louis Sidney Fusco, Jr., '49; *SED*; Rutland
- Alan Reid Garfield, '49; *LA*; Springfield, Mass.
- Bruce Arthur Gaylord, '49; *Ag*; East Randolph
- Charles Robert George, '49; *CE*; Burling-ton
- Louis Philip Girard, '49; *Ag*; Fairfield
- John Henry Gleason, '49; *CE*; Burlington
- Julius Louis Goldberg, '47; *Bus*; Burling-ton
- Irving Goldstein, '48; *LA*; Ellenville, N. Y.
- John Weeks Goodell, '49; *LA*; Wells River
- David T. Goodell, *PG*; Wells River

- Elmer Raymond Goodspeed, '49; *CE*; Rutland  
 Dorwin Fuller Grant, Jr., '49; *Bus*; Burlington  
 Eric Rupert Graves, Jr., '49; *LA*; Waterbury  
 Lynn Dickinson Greene, '49; *LA*; Burlington  
 John Bernard Guinness, '49; *LA*; Rutland  
 Robert P. Guthridge, *Sp*; Charlotte  
 Amos Taylor Hafner, '49; *Bus*; St. Johnsbury  
 Warren Kidder Hale, '49; *ME*; East Rye-gate  
 Robert A. Hall '49; *ME*; Burlington  
 John Bacon Harrington, '49; *LA*; Burlington  
 Leonard Henry Hartley, '49; *LA*; Brattleboro  
 Sylvester Thomas Harvey, '48; *Ag*; Burlington  
 Vern Trafford Haskell, *Sp*; Groton  
 Reginald Atwood Hatch, '49; *LA*; Chester  
 Clifton Donald Havens, '49; *ME*; Burlington  
 Robert Benjamin Hawley, '49; *Bus*; Keene, N. H.  
 Reginald Lindley Hazen, '49; *LA*; North Hero  
 James Raymond Healey, '49; *Bus*; Stamford, Conn.  
 William Francis Hennessey, '48; *LA*; Bridgeport, Conn.  
 Paul Wendell Henry, '49; *SEd*; Fayston  
 Palmira Herboso, '49; *EEd*; Barre  
 Daniel Patrick Higgins, '49; *CE*; Bellows Falls  
 Winslow R. Hodgdon, *Sp*; Burlington  
 Randall Walrath Hoffman, *Sp*; Middlebury  
 Robert Bragg Holme, '49; *LA*; Yonkers, N. Y.  
 Richard Eaton Hotchkiss, '49; *Cb*; Burlington  
 Verle Randall Houghaboom, '46; *Ag*; Orleans  
 Edgar Sayles Householder, '47; *LA*; Burlington  
 Neal Joseph Houston, '49; *LA*; Barre  
 Harold Raymond Howes, Jr., '49; *ME*; Waterbury Center  
 Maurice Hatheway Howes, '49; *CE*; Colebrook, N. H.  
 Gladys Helen Hoyt, '49; *HE*; Milton  
 Grace Carol Huard, '49; *EEd*; Winooski  
 Donald Roy Hunt, Jr., '49; *ME*; West Springfield, Mass.  
 Paul Henry Hunt, '49; *CE*; Burlington  
 Lyman Perry Hunt, '49; *EE*; Burlington  
 Robert Neal Hunziker, '48; *LA*; Stratford, Conn.  
 Stearns Raymond Jenkins, '49; *ME*; Hardwick  
 Charles Wood Jones, '49; *ME*; Burlington  
 Mark Ivan Jurras, Jr., '49; *LA*; Montpelier  
 Harold Walling Kennedy, II, '48; *LA*; Waterbury  
 Russell Perry Ketcham, '49; *LA*; Stowe  
 Allan Grenville Kidd, *PG*; Northfield  
 Perry Judson Kinsley, Jr., '49; *SEd*; Jericho  
 Leonard Yale Kunken, '46; *Bus*; Lynbrook, N. Y.  
 John Vincent Labate, '48; *LA*; Poultney  
 Paul Guy LaHaye, '49; *ME*; Montreal, P. Q., Canada  
 Leopold Laliberte, '49; *EE*; St. Johnsbury  
 William Taylor Lane, '46; *MEd*; Burlington  
 Kenneth Joseph Liggett, '49; *Ag*; Lyndonville  
 George Harry Lines, '49; *ME*; Burlington  
 Ronald Argyle Liston, '49; *ME*; Burlington  
 Hammond Lloyd Livingston, '49; *LA*; St. Albans  
 Earle F. Long, '49; *ME*; St. Johnsbury  
 Robert Preston Lunna, '49; *LA*; Newport Center  
 Burton MacDougall, '49; *ME*; Brooklyn, N. Y.  
 Robert Arthur Magoon, '49; *LA*; Morrisville  
 Richard Hartt Marsh, '48; *SEd*; Rockland, Me.  
 Wallace A. Martin, *PG*; Montpelier  
 Gerald James McCormick, '49; *Cb*; St. Johnsbury  
 Duncan Milo McLaren, '49; *Ag*; East Rye-gate  
 Raeburn Howard Medlar, '49; *CE*; Burlington  
 Raymond John Michaud, '49; *EE*; Burlington  
 Harry Miele, '49; *LA*; Randolph  
 Ian Patrick Fyfe Miller, '49; *LA*; Hanover, N. H.  
 Samuel Edgar Miller, '49; *LA*; St. Albans



- Andrew Clement Mongeon, '48; *ME*; Winooski  
 Harold Laurence Moore, '49; *CE*; Derby Line  
 Sylvia Bradford Morris, '49; *LA*; Burlington  
 Frank William Mowry, '49; *CE*; Oneida, N. Y.  
 Robert Henry Jucha, '47; *LA*; Burlington  
 Robert Reed Mundy, Jr., '49; *LA*; Ferrisburg  
 William Frederick Murphy, '49; *EE*; Burlington  
 Barbara Hill Murray, *Sp*; St. Albans  
 Forrest Alan Nelson, '48; *ME*; Hamden, Conn.  
 Clarence Earl Newton, Jr., '49; *ME*; Burlington  
 J. David Neill, *PG*; Randolph  
 James Edward Nowlin, *Sp*; Burlington  
 Joseph Papandrea, '49; *LA*; Barre  
 William Clifford Paradis, '49; *Bus*; St. Johnsbury  
 Willis Harlan Parks, '49; *Bus*; Gloucester, Mass.  
 Everett P. Payne, '49; *LA*; Winooski  
 Phyllis Jane Perelman, '49; *HE*; Roxbury, Mass.  
 Herbert Alexander Peterson, '48; *LA*; St. Albans  
 Louis Pichierri, *PG*; Burlington  
 Dorothy Roberts Pillischer, *PG*; New York City  
 George P. Pillischer, *PG*; New York City  
 William John Plankey, '49; *ME*; Springfield, Mass.  
 Alice Muriel Plumridge, '49; *MT*; Mount Hermon, Mass.  
 John Hurd Poor, '49; *EE*; Readsboro  
 Edward David Pushee, Jr., '49; *EE*; Fair Haven  
 Frederick MacMaster Reed, '49; *LA*; Manchester Depot  
 Roderick C. Rice, '49; *ME*; Burlington  
 Wendell James Ryan, '47; *LA*; Manchester, Conn.  
 William Wallace Scott, '47; *LA*; Barton  
 Franklin Charles Scribner, '49; *ME*; Plainfield  
 Edna Mae Sickinger, '46; *ElEd*; Sparrowbush, N. Y.  
 Howard Bliss Siegrist, '49; *LA*; Glen Rock, N. J.  
 James E. Simcox, '49; *Ch*; Perry, N. Y.  
 Charles Bingham Smith, Jr., '47; *SEd*; Craftsbury Common  
 George Albert Smith, Jr., '49; *CE*; Derby Line  
 Robert Barnard Stafford, '49; *LA*; Burlington  
 Theodore W. Stafford, Jr., '49; *Bus*; Burlington  
 Michael F. Stefanelli, '49; *Bus*; Bloomfield, N. J.  
 Robert Louis Stevenson, '48; *Bus*; Lynn, Mass.  
 Gerald Edwin Stimson, '49; *ME*; Providence, R. I.  
 Eleanor Lee Stinson, *Sp, HE*; Burlington  
 Robert Kimball Stone, *Sp*; Burlington  
 Robert P. Story, *PG*; Putney  
 Reginald Daniel Swyer, '49; *SEd*; Rutland  
 Crafton Carlyle Sylvies, '49; *LA*; Honolulu, Hawaii  
 Edward Joseph Tadejewski, '48; *Ag*; Trenton, N. J.  
 Kenneth Carl Thiess, '49; *ME*; Burlington  
 Eugene Willis Tigan, '49; *Ag*; Rochelle, Ill.  
 William Henry Towle, '49; *LA*; Newport  
 Raymond Herman Tremblay, '46; *Ag*; North Springfield  
 Guy T. Trono, *PG*; Essex Junction  
 William Frederick Vassar, *PG*; Bristol  
 Stanley Viencek, *Sp*; Morrisville  
 Douglas Lawrence Walker, '49; *CE*; Barre  
 John Francis Wallace, '49; *EE*; Alburg  
 Henry Wasserman, '47; *LA*; Burlington  
 Seymour P. Weissman, '48; *LA*; Brooklyn, N. Y.  
 Ernest Carleton White, '49; *Bus*; Castleton  
 Nelson Williams, '48; *SEd*; Poultney  
 William Wyman Worthen, '49; *Ag*; Springfield, Mass.  
 Donald Robert Yandow, '49; *Bus*; Burlington  
 Kenneth Bernard Yandow, '49; *Bus*; Burlington  
 William Arnold Yasinski, *PG*; Fair Haven  
 John Anthony Zagroba, '49; *LA*; West Rutland  
 Howard L. Zauder, '47; *LA*; Brooklyn, N. Y.  
 Alexander Zucker, '48; *LA*; New York City

## SUMMER SESSION STUDENTS, 1945

- Janę Abbott, R.N., Saxtons River  
 Lillian C. Abbott (Mrs.), St. Johnsbury  
 June B. Abell, Burlington  
 Mildred S. Abelson (Mrs.), B.S., Brooklyn, N. Y.  
 Marion F. Adams (Mrs.), Vergennes  
 Stella M. Adams, B.S., Hebron, N. H.  
 Ruth S. Ainsworth (Mrs.), Burlington  
 Marjorie I. Alexander, Irasburg  
 Lorene W. Allen, Orwell  
 Isabel Amor, Montpelier  
 Barbara S. Anderson, Montclair, N. J.  
 Harold A. Anderson, A.B., West Rutland  
 Hazel A. Ashman (Mrs.), St. Albans  
 Barbara M. Atkins, North Hero  
 Julia B. Austin, A.B., Barre  
 Jean C. Avery, Burlington  
 Francis F. Bacon, A.R., Ludlow  
 Louise P. Barnes, Montpelier  
 Irene A. Barrett, P.H.B., Burlington  
 Jean W. Barry (Mrs.), New York, N. Y.  
 Mary L. Barry, A.B., A.M., South Burlington  
 Priscilla H. Bates, West Charleston  
 Ann E. Bayley, Washington, D. C.  
 Beulah Beal, B.S., Jacksonville, Fla.  
 Armand J. Beltrami, Barre  
 Adena A. Belville, B.ED., Montpelier  
 Erna L. Benedict (Mrs.), Burlington  
 George J. Bergman, LL.B., Burlington  
 Irene J. Berliner, New York, N. Y.  
 Mary L. Berryman, B.A., Norfolk, Va.  
 Helene G. Billings, Richford  
 Willard H. Blaisdell, B.S., Enosburg Falls  
 Frances J. Blatt, R.N., North Poultney  
 Cherry O. Bleakney, Springfield  
 Grace F. Blodgett, B.S. (Mrs.), Burlington  
 Eleanor M. Bloomfield, B.S., M.A., Newark, N. J.  
 Edward Kendrick Boak, A.B., A.M., Wilmington  
 Helen R. Bolger, B.S.ED., Montclair, N. J.  
 Pauline V. Bowman, A.B., M.A., Dayton, O.  
 Myra M. Brand, Burlington  
 Gloria A. Breger, Kew Gardens, L. I., N. Y.  
 Mabel P. Brent (Mrs.), B.A., Norfolk, Va.  
 Otilia M. Brolin, Proctor  
 Maury A. Bromsen, B.S., M.A., New York, N. Y.  
 Ernestine L. Brooks, St. Albans  
 Pearl Bross, Jersey City, N. J.  
 Joseph E. Brosseau, B.ED., Springfield  
 Lorraine E. Brown, Brooklyn, N. Y.  
 Mary Browne (Mrs.), E.D.M., Jersey City, N. J.  
 Eleanor P. Brownell, Burlington  
 Dorris W. Bundy, Bethel  
 Florence M. Burke, Burlington  
 Gertrude Burke, B.A., Bridgeport, Conn.  
 Katherine Burt, Brandon  
 Gertrude A. Cain, M.A., East Orange, N. J.  
 Fred E. Cargill, Alburg  
 Milton Carmen, B.S., Chestnut Hill, Mass.  
 Aurora S. Carpenter (Mrs.), Middletown Springs  
 James R. Carpenter, Burlington  
 Alden J. Carr, A.B., A.M., Concord  
 Priscilla G. Carter (Mrs.), Montpelier  
 Catherine C. Cartier, Burlington  
 Gertrude M. Chamberlin, Burlington  
 Richard R. Chamberlin, Wells River  
 Florence J. Chapman, B.A., M.A., Millburn, N. J.  
 Diana J. Charles, Locust Valley, N. Y.  
 Yu-Nien Chen, B.A., Chungking, China  
 Marilyn E. Cheney, Putnam  
 Ruth A. Child, A.B., Putnam, Conn.  
 Mildred E. Christenson, B.S.ED., M.A., Worcester, Mass.  
 John W. Chrusciel, A.B., West Rutland  
 Elizabeth A. Clark, A.B., Fitchburg, Mass.  
 Rollande L. Cloutatre, St. Johnsbury  
 Velma A. Cochran, P.H.B., Stowe  
 Ernest M. Coddington, B.S.ED., Milton  
 Ava M. Colgan, B.S., Bennington  
 Dorothy M. Collins, B.S.ED., Hyde Park  
 Elizabeth M. Collins, P.H.B., M.A., Burlington  
 Edwin I. Colodny, Burlington  
 Dario J. Comi, P.H.B., St. Albans  
 Frances Compton, A.B., Waltham, Mass.  
 Phyllis M. Conner, A.B., Ardmore, Pa.  
 Inez C. Cook, A.B., Middlebury  
 Leah M. Cook (Mrs.), Bennington  
 Margaret M. Cook (Mrs.), Poultney  
 Harrison A. Cooke, Jr., A.B., M.S., Simsbury, Conn.  
 Patrice Corcoran, Chicopee, Mass.  
 Ivah A. Corley, Newport  
 Mavis C. Corman, Burlington

- Mary H. Corriveau (Mrs.), Passumpic  
 Elizabeth C. Covey (Mrs.), Wilmington  
 Maurice C. Crandall, Springfield  
 Marion M. Crosby (Mrs.), B.A., Burlington  
 Angela M. Crowley, B.S., North Adams, Mass.  
 Christine E. Crump (Mrs.), Rutherford, N. J.  
 Lola M. Culver (Mrs.), B.S., Jacksonville, Fla.  
 Helen M. Cunningham, B.S.ED., Richmond  
 Morton L. Cushing, A.B., St. Albans  
 Wilma A. Cushman, A.B., Lincoln  
 Anna E. Daly, B.S., East Poultney  
 Eleanor P. Danforth, Bath, Me.  
 Barbara J. Danish, New York, N. Y.  
 Mary L. Darrah (Mrs.), Burlington  
 Albert P. Dauphin, B.ED., Vergennes  
 George H. Davis, B.S., Ridgefield, Conn.  
 Herma M. Davis, Williston  
 Melora E. Davis, Brookfield  
 Arza L. Dean, Bethel  
 Beulah J. Dean (Mrs.), Bethel  
 Irene M. DeCoursey, Lincoln  
 Clinton W. Demeritt, B.S., Woodstock  
 Ruth A. Derbyshire (Mrs.), A.B., Richford  
 Kenneth W. Dike, B.S., M.S., Cabot  
 Rachael Dix, B.S., Barre  
 Caroline V. Doane (Mrs.), M.A., Burlington  
 Sister Mary Francis Donnelly, A.B., Rutland  
 Elizabeth Doolin, B.S.ED., Philadelphia, Pa.  
 Margaret V. Doty, A.B., Lansdowne, Pa.  
 Ruth A. Douglass, Burlington  
 Jeane M. Driscoll, B.S., Birdeggport, Conn.  
 Blanche S. Dubuque (Mrs.), Grand Isle  
 Carrie C. Dulakis, B.A., M.A., Brooklyn, N. Y.  
 Mary J. Durfee, Burlington  
 Eleanor M. Dyke, R.N., Newport  
 Jean O. Easton, Shoreham  
 Harry F. Eaton, Jr., A.B., M.ED., Wakefield, Mass.  
 Henrietta H. Ellsworth (Mrs.), Cambridge  
 Rena M. Elmore (Mrs.), Brandon  
 Elaine D. Elsasser, North Bergen, N. J.  
 Anne R. Epstein, A.B., New York, N. Y.  
 Daniel D. Erhardt, Long Island, N. Y.  
 Jeanne M. Euler, B.S., Burlington  
 Irene F. Fahey, Bridgeport, Conn.  
 Chia-Ching Fan, B.A., Chungking, China  
 Kathleen M. Farnsworth, Richford  
 Esther R. Favor (Mrs.), Burlington  
 Beverly R. Feinberg, Plymouth, Mass.  
 Jessie T. Fenn (Mrs.), Middlebury  
 Ione A. Ferrari, R.N., Rutland  
 Gloria L. Firstenberg, New York, N. Y.  
 Ellen L. Fitzgerald, Winooski  
 Katherine M. Fitzgerald, Winooski  
 Rose M. Fitzpatrick (Mrs.), Middlebury  
 Dorothy E. Flanders (Mrs.), B.S., Vergennes  
 William D. Flanders, B.S., Vergennes  
 Helen G. Flynn, Essex Junction  
 Sherman P. Fogg, B.S., Lakewood, N. J.  
 John A. Freitas, Ph.B., White River Junction  
 Josie M. Fresn (Mrs.), South Hero  
 Rose Friedman, B.S., M.A., West Englewood, N. J.  
 Ellen G. Fuller (Mrs.), Bennington  
 Mary H. Furey, St. Albans  
 Hazel F. Furlong, M.S., Gorham, N. H.  
 Susie P. Gandy (Mrs.), B.S., Huntsville, Ala.  
 Jane K. Gardner, Burlington  
 Yolande B. Germain, B.S., Winooski  
 Gladys I. Giddens, B.S., Norfolk, Va.  
 Gladys C. Gokey, Jericho  
 Donald A. Grady, B.S., Essex Junction  
 George S. Graham, B.A., M.A., Staunton, Va.  
 Elizabeth H. Graves, Virginia Beach, Va.  
 Florence G. Greene, Burlington  
 Mildred C. Greene, A.B., Newark, N. J.  
 George E. Greenough, Wallingford  
 Arthana P. Gregg, A.B., Cornwall Bridge, Conn.  
 Tekla C. Gustafson, A.M., Newark, N. J.  
 Elizabeth M. Guyette, R.N., Pittsford Mills  
 Helen H. Haier (Mrs.), Bennington  
 Barbara M. Hall, Fairfax  
 Helen S. Hall, B.ED., Castleton  
 Elizabeth H. Hamilton, Bridport  
 Amy L. Hammond, B.S., Burlington  
 Mary Louise Hard, Manchester Depot  
 Marion M. Harlowe (Mrs.), Woodstock  
 Clara W. Harrington, Cabot  
 Olive C. Hartley, Montreal, Que., Canada  
 Grace S. Hartwell (Mrs.), Burlington  
 Susan W. Haskell (Mrs.), Cabot  
 Martin W. Hatch, Post Mills  
 Marion Hathaway, Warren, Mass.

Mary T. Hayes, Fair Haven  
 Ruth Henderson, B.A., Burlington  
 Eric E. L. Hercules, San Fernando, Trinidad  
 Mary A. Herrick (Mrs.), Moretown  
 Nellie A. Herrman, B.ED., Rutland  
 Alice N. Hill (Mrs.), A.B., Lahaska, Pa.  
 Pauleta C. Hinchey, A.B., Fair Haven  
 Lois S. Hobbs (Mrs.), A.B., Milton  
 Ruth E. Hoder, St. Albans  
 Ethel M. Hogge, Lyndonville  
 Doris P. Hojaboom (Mrs.), St. Albans  
 Edith E. Holden, B.S.ED., Milton  
 Dorothy M. Hollender, Metuchen, N. J.  
 Martha H. Holt, Pawtucket, R. I.  
 Rachel H. Holt (Mrs.), B.S., Northfield  
 Alice H. Howe (Mrs.), B.ED., Passumpsic  
 Eugene G. Hoyt, B.S., Brandon  
 Kathryn E. Hubbard, Burlington  
 Lois M. Hutchings, B.A., M.A., PH.D., Newark, N. J.  
 Cora A. Hutchins, B.S.ED., Burlington  
 Leph A. Hutchinson, Williamstown  
 Jean E. Ichter, R.N., Burlington  
 Lillian M. Iversen (Mrs.), B.ED., Burlington  
 Charlotte H. Jackman (Mrs.), East Calais  
 Gertrude M. Jeffries, Arlington, N. J.  
 Doris A. Jenney, B.A., South Portland, Me.  
 Edith M. Johnson (Mrs.), Canaan  
 Elizabeth B. Johnson, B.A., Merchantville, N. J.  
 Lillian M. Johnson, Arlington  
 Katie M. Jones, R.N., North Poultney  
 Mildred T. Jones (Mrs.), Burlington  
 Helen T. Keefe, Burlington  
 Eliza Keller, A.B., M.A., Pittsburgh, Pa.  
 Stella P. Keller, Pittsburgh, Pa.  
 Agnes F. Kelley (Mrs.), Poultney  
 Mary R. Kennedy, Milton  
 Bernice E. Kingsbury, Milton  
 Lily S. Kirshner, B.C.S., New York, N. Y.  
 Philip A. Klinglolf, A.B., M.A., Worcester, Mass.  
 Kathryn R. Knickerbocker (Mrs.), Burlington  
 Nathan Z. Knight, B.S., Poultney  
 William J. Lamplough, B.S., Burlington  
 Jean H. Lanphere, Wells River  
 Marilyn M. Lauter, Washington, D. C.  
 Frances J. Lawliss, Richford  
 John A. LeBoeuf, B.S., Mooers, N. Y.

Selma J. Levine, B.S., New York, N. Y.  
 Lois J. Linn, New Britain, Conn.  
 Elinor H. Long, B.A., M.A., Philadelphia, Pa.  
 Phyllis E. Lowe, Milton, Mass.  
 Marjorie E. Lutkins, Hackensack, N. J.  
 Cyra F. Machanic, Burlington  
 Katherine M. Mack, South Hero  
 Audrey J. MacNab (Mrs.), Burlington  
 Edwin T. Maloney, B.A., Jericho  
 Janet M. Mandigo, Shawbridge, Que., Canada  
 Ruth S. Mann (Mrs.), Northfield  
 Enid Mannheim, Burlington  
 Winifred Marsh, Burlington  
 Alyne M. Martin (Mrs.), A.B., Louisville, Ky.  
 Iris H. Martin (Mrs.), Huntington  
 K. Salome Martin, Hinesburg  
 Paul R. Marvin, B.S., Alburg  
 Mary I. Materson, B.S.ED., M.ED., West Roxbury, Mass.  
 Margaret D. Matthews (Mrs.), A.B., Franklin, Ind.  
 Bess C. Mauzy, B.A., Norfolk, Va.  
 Louise W. McArdle (Mrs.), Fairfax  
 Christine L. McCloskey (Mrs.), Orwell  
 Anne Marie McCormack, Jamaica, L. I., N. Y.  
 Louise E. McCrudden (Mrs.), Beverly, N. J.  
 Sally S. McDevitt, Shannock, R. I.  
 Elizabeth M. McDonald, B.A., Stamford, Conn.  
 Beulah C. McFarland, Burlington  
 Sister Mary Barbara McGarrigle, Rutland  
 Eileen G. McGinley (Mrs.), B.A., Essex Junction  
 Eleanor B. McGrath, New Haven, Conn.  
 Marjorie M. McGrath, Burlington  
 Pearl S. McGrath (Mrs.), Burlington  
 Bernice McKee, Morrisville  
 Hilton McLain, Staten Island, N. Y.  
 Barbara A. McNeil, Vergennes  
 Audrey E. Miller, Burlington  
 Dorothy E. Miller, Topsham  
 Rose M. Miller, B.S., South Peacham  
 Ruth E. Miller, Montreal, Que., Canada  
 Alice F. Minall, Burlington  
 Dorothy F. Miner (Mrs.), Hinesburg  
 Bertha O. Mitchell, A.B., M.A., Pittsburgh, Pa.

- Dorothy E. Mitchell, St. Albans  
 Mary E. Mitiguy, Burlington  
 Jennie Montag, A.B., M.S.ED., Brooklyn, N. Y.  
 Esther B. Moore, B.ED., Fair Haven  
 Marion C. Moore, B.S., M.A., Arlington, N. J.  
 Mary M. Moore, A.B., Burlington  
 John M. Morrow, B.S., B.A., M.A., Burlington  
 Catherine L. Morse, West Stewartstown, N. H.  
 Margaret H. Muller, P.H.B., Burlington  
 John N. Murray, A.B.ED., Randolph  
 Archavir Nalbandian, Lowell, Mass. (Chile)  
 Julia A. Naramore (Mrs.), Fair Haven  
 Gladys E. Neiburg, St. Albans  
 Elizabeth R. Nelson (Mrs.), B.A., Vergennes  
 Addie J. Nichols, Underhill  
 Russell E. Nims, B.S., M.ED., Jeffersonville  
 Ruth D. Nims (Mrs.), B.A., Jeffersonville  
 Katherine M. Nowland, P.H.B., Burlington  
 Katherine M. O'Brien, P.H.B., Burlington  
 David S. Offensend, B.S.ED., Burlington  
 Dorothy E. Offensend (Mrs.), B.ED., Burlington  
 Mary V. O'Hara, B.S., M.A., New York, N. Y.  
 Austin L. Olney, B.S., Hyde Park  
 Iona S. Olsen, Wauchula, Fla.  
 Helen L. Orr, Narberth, Pa.  
 Evelyn Orton, P.H.B., Burlington  
 Evalena L. Osborne (Mrs.), Vergennes  
 Anson H. Page, Stowe  
 Biagio Palermo, B.A., Waterbury  
 Pauline M. Palin, Derby Line  
 Chen Li Pang, A.B., Soochow, China  
 Florence Leeds Parker, R.N., East Haven, Conn.  
 Lucy C. Parker, Burlington  
 Marion C. Parker, Montpelier  
 Rosalie B. Parker, Brooklyn, N. Y.  
 Marion J. Parrott (Mrs.), B.S., M.ED., Burlington  
 Mary E. Pease, B.A., Burlington  
 Nita O. Peck, Middlebury  
 Vera A. Perkins, B.S., Rutland  
 Rodney H. Peterson, Winooski  
 Ruth Peyser, A.B., New York, N. Y.  
 Beatrice B. Phillips (Mrs.), B.S., Brattleboro  
 Donald C. Pierce, B.S., Richford  
 Mary Louise Pierce, Montpelier  
 Charlotte R. Pitts, Concord, N. H.  
 Dorothy L. Platka, Burlington  
 Muriel D. Platt (Mrs.), B.A., M.A., Forest Hills, N. Y.  
 Nathaniel Platt, B.A., M.S., Forest Hills, N. Y.  
 Emilio E. Politi, Barre  
 Suzanne R. Poljacik, Florence  
 Ilene M. Porter (Mrs.), Richmond  
 Doris L. Pottick, Kew Gardens, N. Y.  
 Chloe Powell, Burlington  
 Eugenia S. Powers, B.S.ED., Lower Waterford  
 Alice J. Pratt, B.S., North Clarendon  
 Beryl L. Pratt, Vergennes  
 Ethel J. Pratt, Pleasantville, N. Y.  
 M. Alvira Pratt, Essex  
 Norma K. Prescott, St. Johnsbury Center  
 Charlotte Press, New York, N. Y.  
 Ethel E. Provost, Northfield  
 John C. Quill, Winooski  
 Arthur P. Quimby, B.S., Morrisville  
 Barbara Rand, Brooklyn, N. Y.  
 Mertie N. Raymond (Mrs.), Morrisville  
 Florence E. Reid, Burlington  
 Claire A. Riggs, Richmond  
 Eleanor P. Risler (Mrs.), Baltimore, Md.  
 Myrtle B. Rogers, Highgate Center  
 Bessie F. Root (Mrs.), Burlington  
 Marion A. Root, B.S., M.A., Burlington  
 Barbara B. Rose, B.ED., Fairfax  
 Robert M. Rosenberg, Jr., Burlington  
 Elizabeth A. Ross, Brooklyn, N. Y.  
 Ruth M. Rowe (Mrs.), B.A., Waterbury  
 Virginia G. Rozek (Mrs.), Berlin, N. H.  
 Leona R. Ryan, Springfield  
 Rita M. Ryan, B.A., Stamford, Conn.  
 Helen M. Sailer, B.S.M., Blue Island, Ill.  
 Natalie J. Salls, East Hartford, Conn.  
 Charles D. Sawyer, P.H.B., Fairfax  
 Miriam E. Scharf, Elberon, N. J.  
 Elizabeth Schimmelpennig (Mrs.), Burlington  
 Hilda Schlesinger, New York, N. Y.  
 Betty-Anne Scott, Bennington  
 Beatrice E. Sears, R.N., Middlebury  
 Dorothy Seidman, New York, N. Y.  
 John L. Selden, B.S., Bristol  
 Rosamond C. Sellet (Mrs.), A.B., Brooklyn, N. Y.  
 Mary B. Sennett, Poultney

- Lottie A. Sessions, Vergennes  
 Patricia E. Sheffert, Englewood, N. J.  
 Harriet C. Silver, A.B., A.M., Burlington  
 Julia E. Silverman, B.S., M.A., New York, N. Y.  
 Raymond C. Simms, Burlington  
 Sylvia A. Skelly, Burlington  
 L. Lavone Skinner, Burlington  
 Cornelia H. Smith, Burlington  
 Marguerite A. Smith. (Mrs.), B.A., M.A., Burlington.  
 Rosella B. Smith, Concord, N. H.  
 Ruth Smith, A.B., Keyser, W. Va.  
 Gloria E. Smoller, New York, N. Y.  
 Barbara F. Snetsinger, Montpelier  
 Jeanette Soulis, Birmingham, Mich.  
 Harriet B. Squires, East Arlington  
 Thelma C. Stearns, Orleans  
 Sera H. Steinhauer, Jersey City, N. J.  
 Margery P. Stebbins (Mrs.), East Middlebury  
 Magdalene M. Stephens, Scotia, N. Y.  
 Rita M. Stichman (Mrs.), New York, N. Y.  
 Edith L. Stitt (Mrs.), B.S., Glenbrook, Conn.  
 Lewis J. Streeter, B.S., M.ED., Montpelier  
 Sister St. Hilary Stringer, A.B., Rutland  
 Florence L. Stubbins, B.ED., Chicago, Ill.  
 Rose K. Sullivan, Bellows Falls  
 Elizabeth Taber, Ridgewood, N. J.  
 Chester M. Taft, B.S., Brandon  
 Roxie J. Talbert, Saxtons River  
 Barbara Tanklefsky, New York, N. Y.  
 Lydia B. Taylor (Mrs.), Bridport  
 Grace Terry (Mrs.), A.B., M.A., Bennington  
 Harriet Terry, A.B., Normal, Ala.  
 Mary J. Thornton, Burlington  
 Sadie M. Tobin, R.N., Burlington  
 Ida M. Towne, Morrisville  
 Mildred Trachtenberg, Brooklyn, N. Y.  
 Barbara M. Tucker, Melrose, Mass.  
 Elinore J. Tunick (Mrs.), B.A., Neponset, L. I., N. Y.  
 Barbara Ungerleider, Paterson, N. J.  
 Clare T. Upson, Jackson Heights, N. Y.  
 Ignacio D. Uriarte, Lowell, Mass. (Chile)  
 Irene A. Urie, Craftsbury Common  
 Ruth T. Visscher (Mrs.), A.B., Carmel, N. Y.  
 Jean Volger, B.ED., Burlington  
 Florence I. Wade, B.ED., East Dorset  
 Daisy S. Waite (Mrs.), Essex Junction  
 Laurence H. Walker, B.S.ED., Weston  
 M. Alice Walter, Winooski  
 Florence G. Wark (Mrs.), East St. Johnsbury  
 Alice L. Warner, B.S.ED., Sunderland, Mass.  
 Cola D. Watson, B.S., Burlington  
 Helen Marian Way, PH.B., Burlington  
 Frank E. Wedge, Lakeside, Conn.  
 Elizabeth Wehncke, A.B., Craftsbury Common  
 Vera F. Weightman (Mrs.), Burlington  
 Sue Weinberg, New York, N. Y.  
 Grace P. Weiss (Mrs.), A.B., M.A., Columbus, O.  
 Helen M. Weiss, B.A., Brooklyn, N. Y.  
 Rita Weiss, Brooklyn, N. Y.  
 Theresa O. Weiss, B.S., M.ED., Richmond Hill, L. I., N. Y.  
 Sister Mary Imelda Welch, B.S., Rutland  
 Merlin J. Wells, B.S., Highgate Center  
 Paula C. Whelan, Orange, N. J.  
 Fay G. Whitcomb, B.S., Townshend  
 Helen C. Whitehill, R.N., Passumpsic  
 Ada B. Widdowson, A.B., M.ED., Pittsburgh, Pa.  
 Edward Wilder, B.S., M.A., Waterbury, Conn.  
 Ruth Willard, B.ED., Burlington  
 Cora Anita Willett, Rutland  
 Eleanor A. Williams, B.A., Margaretville, N. Y.  
 Elizabeth L. Williams, B.A., Underhill  
 Helen C. Williams (Mrs.), Jericho  
 Marilyn M. Wilson, Orient, Ia.  
 Marion K. Wilson, Concord, Mass.  
 Rose W. Wisell (Mrs.), Waterbury  
 Cynthia A. Witherell, R.N., Bridport  
 Doris M. Withington, Corinth  
 Liliane Wlodaver, New York, N. Y.  
 Helen J. Wolf, Brooklyn, N. Y.  
 Hazen F. Wood, B.ED., Burlington  
 Jean B. Woods (Mrs.), PH.B., South Burlington  
 Marjorie L. Worcester, South Barre  
 Lois J. Worthley, East Corinth  
 Christine Wyman, Portland, Me.  
 Pauline E. Yasinski (Mrs.), R.N., Fair Haven  
 Richmond A. Young, B.S., Middlebury  
 Naomi W. Zieber (Mrs.), B.A., M.A., Philadelphia, Pa.

## STUDENTS IN RESIDENCE, 1945-46

## THE DEPARTMENT OF EDUCATION

BY CURRICULA:	MEN	WOMEN	TOTAL
Elementary Education .....	.....	93	93
Junior High School Education .....	.....	4	4
Totals .....	.....	97	97

BY CLASSES:			
Seniors, 1946 .....	.....	14	14
Juniors, 1947 .....	.....	20	20
Sophomores, 1948 .....	.....	29	29
Freshmen, 1949 .....	.....	34	34
Totals .....	.....	97	97

## THE COLLEGE OF AGRICULTURE

BY CURRICULA:			
Agriculture .....	17	7	24
Home Economics .....	.....	95	95
Unclassified .....	3	3	6
Totals .....	20	105	125

BY CLASSES:			
Seniors, 1946 .....	3	19	22
Juniors, 1947 .....	.....	16	16
Sophomores, 1948 .....	5	34	39
Freshmen, 1949 .....	9	33	42
Unclassified .....	3	3	6
Totals .....	20	105	125

## THE COLLEGE OF ENGINEERING

BY CURRICULA:			
Civil Engineering .....	11	1	12
Electrical Engineering .....	15	.....	15
Mechanical Engineering .....	21	4	25
Unclassified .....	2	.....	2
Totals .....	49	5	54

BY CLASSES:			
Seniors, 1946 .....	3	1	4
Juniors, 1947 .....	3	.....	3

# Register

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	MEN	WOMEN	TOTAL
Sophomores, 1948 .....	10	1	11
Freshmen, 1949 .....	31	3	34
Unclassified .....	2	.....	2
Totals .....	49	5	54

## THE COLLEGE OF ARTS AND SCIENCES

### BY CURRICULA:

Chemistry .....	9	16	25
Commerce and Economics, Business .....	29	9	38
Commerce and Economics, Commercial Teaching .....	.....	9	9
Commerce and Economics, Secretarial .....	.....	24	24
Liberal Arts .....	98	317	415
Medical Technology .....	2	17	19
Music Education .....	2	17	19
Nursing Education .....	.....	19	19
Nursing Education, Special .....	.....	24	24
Secondary Education .....	10	24	34
Special .....	8	15	23
Totals .....	158	491	649

### BY CLASSES:

Seniors, 1946 .....	11	81	92
Juniors, 1947 .....	26	86	112
Sophomores, 1948 .....	18	142	160
Freshmen, 1949 .....	95	143	238
Special .....	8	39	47
Totals .....	158	491	649

## THE GRADUATE DEPARTMENT

Resident Graduate Students .....	6	1	7
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## THE COLLEGE OF MEDICINE

### BY CLASSES:

Seniors, 1946 .....	35	2	37
Juniors, 1947 .....	33	2	35
Sophomores, 1948 .....	37	3	40
Freshmen, 1949 .....	32	7	39
Totals .....	137	14	151



## THE UNDERGRADUATE COLLEGES

SUMMARY OF CLASSES:	MEN	WOMEN	TOTAL
Seniors, 1946 .....	17	115	132
Juniors, 1947 .....	29	122	151
Sophomores, 1948 .....	33	206	239
Freshmen, 1949 .....	135	213	348
Unclassified .....	13	42	55
Totals .....	227	698	925

## SUMMARY OF RESIDENT ENROLLMENT, 1945-46

## THE UNDERGRADUATE COLLEGES

The Department of Education .....	97	97
The College of Agriculture .....	20	105
The College of Engineering .....	49	5
The College of Arts and Sciences .....	158	491
Total in Undergraduate Curricula .....	227	698

THE GRADUATE DEPARTMENT .....	6	1	7
Total in Academic Colleges .....	233	699	932

THE COLLEGE OF MEDICINE .....	137	14	151
Total in the University .....	370	713	1,083

## GEOGRAPHICAL DISTRIBUTION

Brazil .....	1	New Hampshire .....	22
California .....	3	New Jersey .....	57
Canada .....	3	New York .....	148
Canal Zone .....	1	Ohio .....	2
China .....	1	Oregon .....	1
Connecticut .....	77	Pennsylvania .....	8
District of Columbia .....	9	Rhode Island .....	2
Illinois .....	1	Utah .....	1
Iowa .....	1	VERMONT .....	645
Louisiana .....	1	Virginia .....	2
Maine .....	11	Wisconsin .....	1
Maryland .....	4		
Massachusetts .....	76	Total .....	1,083
Michigan .....	5		

## Degrees in Course, 1945

### GRADUATED FEBRUARY 17, 1945

#### BACHELOR OF EDUCATION

Alice Elizabeth Haugh, Rutland

#### BACHELORS OF ARTS

Caroline Brown Lockwood, Enosburg Falls  
Doris Jeanne Rindler, New York, N. Y.

Charlotte Esther Robinson, Accord, N. Y.  
Florence Hecht Savin, Brooklyn, N. Y.

### ADVANCED DEGREE

#### MASTER OF SCIENCE

##### PHYSICS

\*Anne Squire Hayer, B.S., University of Vermont 1939, Burlington  
*Thesis:* The Scattering of Mechanical Particles

### COMMENCEMENT—MONDAY, JUNE 4, 1945

### ELEMENTARY EDUCATION

#### BACHELORS OF EDUCATION

Beryl Irene Cheney, Rutland  
Mary Elizabeth Harmon, Bennington  
Katherine Ann Hennessey, Bellows Falls  
Mary Ann Kudiesy, Burlington  
Shirley Mae Lampman (*MusEd*), St. Albans  
Janette Mitchell Nelson, East Ryegate

Lois Holyoke Niles, Bennington  
Clara Henrietta Ramsdell, Burlington  
Elizabeth Brown Thoma, Honolulu, Hawaii  
Ruth Pearl Willard, Burlington  
Frances Mack Woodcock, Graniteville  
Persis Elizabeth Yates, Sheldon

### THE COLLEGE OF AGRICULTURE

#### BACHELORS OF SCIENCE IN HOME ECONOMICS

Lael Thelma Cutler, Quincy, Mass.  
Jean Smith Eddy, Forest Hills, N. Y.  
Barbara Muriel Fiske, Burlington  
Pauline Hazelton Fitch, St. Johnsbury

Harriet Mary Gebbie, Greensboro  
Marjorie Anne Hall, Hardwick  
Ruth Anne Holmes, *cum laude*, Burlington  
Christine Ruth Hughes, Brattleboro

\* Deceased, September, 1945

Thelma Adria Jacobs, St. Albans  
 Eleanor Dawley Jenkins, Maplewood, N. J.  
 Barbara Louise Kennon, San Antonio,  
 Tex.  
 Muriel Gloria McKee, St. Johnsbury  
 Frances Helen Mayville, Milton  
 Marian Lucy Melby, Andover, N. J.  
 Raylen Prouty Moore, West Hartford,  
 Conn.

Helen May Murray, Richmond  
 Shirley Ellen Needham, *magna cum laude*,  
 Boston, Mass.  
 Bethia Brown Noble, Benson  
 Marjorie Jane Nutting, *cum laude*, Wood-  
 stock  
 Betty Irene Walker, *cum laude*, Cabot  
 Clara Elizabeth White, Greensboro  
 Sarah Alida White, East Ryegate

## THE COLLEGE OF ENGINEERING

### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Georgia Kafalas, Newburyport, Mass.

## THE COLLEGE OF ARTS AND SCIENCES

### BACHELOR OF SCIENCE IN COMMERCE AND ECONOMICS

Barbara Amy Burnham, *cum laude*, West  
 Hartford, Conn.  
 Alice Flemming, Lonsdale, R. I.  
 Sarah Jo Flournoy, Kenmore, N. Y.  
 Ruth Dorothy Jepson, Walpole, Mass.  
 Shirley Parker Malek, Plainfield, N. J.  
 Elaine Annette Oling, Brooklyn, N. Y.

Jeanne Phillips, Milford, Penn.  
 Janice Elaine Preston, Burlington  
 Armonie Monica Rasines, Barre  
 Elizabeth Manning Ritchie, Glen Rock,  
 N. J.  
 Calleen Scutakes, Burlington  
 John Keen Williams, Londonderry

### BACHELORS OF SCIENCE IN EDUCATION

Marie Antoinette Boutin, Bennington  
 Joyce Elizabeth Byington, Charlotte  
 Margaret Clarke Donahue, Pearl River,  
 N. Y.  
 Marian Irene Dustin, Essex Junction

Elaine Bailey Gage, Waterbury  
 Ruth Kimball Jordan, *magna cum laude*,  
 Burlington  
 Kathleen Leora McFeeters, Franklin  
 \*Anita Setien, Barre

### BACHELORS OF SCIENCE

†David Samuel Kenet, Springfield  
 †John Hollister Perry-Hooker, Wells River

\*Alice Dolores Tyndall, Weehawken, N. J.  
 \*Sumner Root Ziegra, Deep River, Conn.

### BACHELORS OF ARTS

Betty Cornelia Anderson, New York, N. Y.  
 Mary Elizabeth Ashe, Nashua, N. H.  
 Esther Mae Ballard, *cum laude*, Milton  
 Virginia Lois Bingham, St. Albans

Ann Crocker, Foxboro, Mass.  
 Elizabeth Mae Dahlgren, Bristol, Conn.  
 Willson Daily, Malone, N. Y.  
 Ellen Oudry Davis, Burlington

\* As of February, 17, 1945

† As of September 13, 1944

- \*Frances Ferguson Donahue, Pearl River, N. Y.  
 William Martin Dunn, Bridgeport, Conn.  
 Alice Gloria Edwards, Brooklyn, N. Y.  
 Betty Doris Farnsworth, Morristown, N. J.  
 Joan Goldbloom, Brooklyn, N. Y.  
 Hester Elizabeth Heath, Barre  
 Shirley Tucker Hibbard, New Britain, Conn.  
 Arthur Clement Holden, Burlington  
 Jeanne Trowbridge Hotchkiss, New Preston, Conn.  
 Avis Kenyon, Richmond  
 Freda Koble, *cum laude*, Witherbee, N. Y.  
 Bernice Lieberman, Medford, Mass.  
 Mary Ursula Lindsay, *summa cum laude*, Burlington  
 Peggy Marie Lucas, Washington, D. C.  
 Lorraine Winifred Luce, Waterbury  
 Judith Baird Marquis, Flushing, N. Y.  
 \*Katherine Shedd Perry, East Greenwich, R. I.  
 Vera Tiffany Prince, Montclair, N. J.  
 Marie Roller, Bridgeport, Conn.  
 Virginia Elizabeth Rose, Bellows Falls  
 Alice Annette Rowe, Manchester Center  
 \*Marjorie Ruth Rubin, Brockton, Mass.  
 Eunice Marie Simmons, Montpelier  
 Jane Louise Smith, Flushing, N. Y.  
 Michael Aristotle Spylios, Fitchburg, Mass.  
 Vesta May Stevens, *cum laude*, Mystic, Conn.  
 Janet Eva Stimpson, Cape Cottage, Me.  
 Irene Marguerite Varga, Port Washington, N. Y.  
 Jean MacIver Watson, South Barre

## ADVANCED DEGREES

### MASTER OF EDUCATION

Howard Robert Heath Johnson, B.S., University of Vermont, 1940

### MASTER OF ARTS

#### HISTORY

Gertrude Ellen Cone, A.B., University of Rochester, 1931

*Thesis:* Studies in the Development of Transportation in the Champlain Valley to 1876

### PSYCHOLOGY

Marguerite Anderson Smith, B.A., American International College, 1943

*Thesis:* The Effect of Color on Size Constancy

### MASTER OF SCIENCE

#### PHYSICS

Lawrence Whitney Burgess, B.S., University of Vermont, 1942

*Thesis:* X-Ray K-Fluorescence Yield of Silver

## DEGREES HONORIS CAUSA

### MASTER OF SCIENCE

Edward Hiram Jones

\* As of February 17, 1945

### DOCTOR OF SCIENCE

Homer Levi Dodge

## DOCTOR OF LAWS

James Henry Naylor  
Mortimer Robinson Proctor

## DOCTOR OF CIVIL LAWS

Sherman Roberts Moulton

## SPECIAL HONORS

## PSYCHOLOGY

Vesta May Stevens

*Thesis: A Study of Certain Fusion Phenomena with Closely Juxtaposed Visual Stimuli.*

## PRIZES

## THE ELWIN L. INGALLS 4-H PRIZE

*In Honor of Elwin L. Ingalls, for Outstanding Merit in 4-H Club Work, Character, and Scholarship*

Alan Russell Corwin '46

## THE GERMAN LITERARY PRIZE

*Awarded by the Goethe Lodge of Burlington for General Excellence in German*

Mary Ursula Lindsay '45

## THE KIRBY FLOWER SMITH PRIZE

*Awarded to the student with the highest record in Latin 2*

Anita Ross '47

## THE ROBERT ASHTON LAWRENCE

## DEBATING PRIZES

*Awarded for Proficiency in Debate*

*First: Stanley Lloyd Golden '48*

*Second: David Powell Hackett '47*

*Third: Peter Saltonstall Mallett '48*

## THE EDWARD PAGE BUTLER DEBATING PRIZES

*Awarded for Proficiency in Debate*

*First: Eileen Margaret Pickett '47*

*Second: Pearl Lee Weissbard '46*

*Third: Shirley Dorothy Harris '47*

## THE HANNA G. SOLOMON PRIZE

*Awarded by the Burlington Section of the National Council of Jewish Women to the Senior Woman who has exhibited in the highest degree the qualities of Scholarship, Leadership, and Service*

Frances Ferguson Donahue '45

## THE B'NAI B'RITH PRIZE

*Awarded by the Joseph Frank Lodge to that student who has done most to encourage Interfaith Cooperation and Activities*

Arthur Clement Holden '45

## COMMENCEMENT—WEDNESDAY, JUNE 20, 1945

## THE COLLEGE OF ARTS AND SCIENCES

## BACHELORS OF SCIENCE

Winston Earle Cochran, Morrisville  
Karl Wayne Erwin, Burlington  
William Thomas Fagan, Jr., Rutland

Edwin David Meyers, Manchester  
Malcolm Jack Paulsen, Danville  
George Lewis Saiger, Burlington

# THE COLLEGE OF MEDICINE

## DOCTORS OF MEDICINE

Leigh Gates Abbott, B.S., *cum laude*, West-  
ton, Mass.

Clifford Elliott Backup, A.B., Jericho

Gerhard Theodor Beck, B.S., Rutland

George Arthur Bonner, B.S., Westport,  
N. Y.

Nicholas Gerald Bottiglieri, B.S., Whitehall,  
N. Y.

Robert Nolan Cain, B.S., *cum laude*, Bur-  
lington

Martin John Cannon, B.S., Rutland

Julius George Cohen, B.S., Burlington

John Dominic Dimichele, B.S., Poultney

Ernest Albert Dunbar, Jr., B.S., Barre,  
Mass.

James Warren Dykens, B.S., Worcester,  
Mass.

Winston Milo Eddy, B.S., Burlington

Terence Frederick Gage, B.S., Vergennes

Charles William Jones, A.B., Haverhill,  
Mass.

Victor Leonidies Karren, B.S., Yonkers,  
N. Y.

Harry James Kelly, A.B., Northampton,  
Mass.

Herman Alexander LeBow, B.S., Burlington

Samuel Levine, B.S., Burlington

Joseph Nicholas Lioni, B.S., Proctor

Joanna Jeanne Metcalf, B.S., Waterbury  
Robert Emmett O'Brien, B.S., *cum laude*,  
Winooski

Harold Gordon Page, B.S., *cum laude*,  
South Ryegate

Clifford Atherton Pease, Jr., B.S., Burling-  
ton

John Christie Robinson, B.S., Blanford,  
Mass.

David George Rousseau, B.S., Grand Isle

Joseph Nicholas Russo, B.S., Hartford,  
Conn.

Sanford Savin, B.S., *cum laude*, Bridgeport,  
Conn.

William Emil Schumacher, A.B., Laurelton,  
N. Y.

William Bernard Shea, Jr., B.S., Bennington

William Hempstead Sisson, B.S., Burlington

James Albert Sudbay, Jr., B.S., Gloucester,  
Mass.

Robert James Vernlund, B.S., West Hart-  
ford, Conn.

Eva Brynhild Wallen, A.B., Burlington

Dean Herbert Wheeler, B.S., Enosburg  
Falls

Wayne Phillip Whitcomb, A.B., Burlington

Gerald Philip Wiedman, B.S., Burlington

## PRIZES

### CARBEE PRIZE

*For Greatest Proficiency in the Subject of  
Obstetrics*

Harry James Kelly, A.B.

Joanna Jeanne Metcalf, B.S.

### PSYCHIATRY PRIZE

*To the Senior Having the Highest Stand-  
ing in Psychiatry*

Eva Brynhild Wallen, A.B.

### WOODBURY PRIZES IN MEDICINE

*For Greatest Proficiency in Clinical Work  
in Senior Year*

Nicholas Gerald Bottiglieri, B.S.

Robert Emmett O'Brien, B.S.

*To the Sophomore Having the Highest  
Standing for Two Years of Medical Work*

Stanley Melvin Rapoport, M.A.

### NU SIGMA NU MERIT AWARDS

*To the Outstanding Student in the Fresh-  
man Class*

Winston Earle Cochran, B.S.

*To the Outstanding Student in the Junior  
Class*

Edna Dole Backup, B.S.

GRADUATED AS OF SEPTEMBER 7, 1945

## ELEMENTARY EDUCATION

### BACHELORS OF EDUCATION

Marilyn Elizabeth Cheney, Rutland  
Mary Hines Corriveau, Passumpsic  
Florence Gertrude Greene, Burlington

Mary Therese Hayes, Fair Haven  
Kathryn Elizabeth Hubbard, Burlington  
Marjorie E. Lutkins, Hackensack, N. J.

## THE COLLEGE OF ENGINEERING

### BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Richard Harold Parker, Rochester

## THE COLLEGE OF ARTS AND SCIENCES

### BACHELOR OF ARTS

Marjorie Ina Alexander, Irasburg

Grace Lucile Perry, Burlington

### BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

Griswold Bruce Holman, Jr., Rutherford, N. J.      Phyllis Elmira Lowe, Milton, Mass.

### BACHELORS OF SCIENCE IN MEDICAL TECHNOLOGY

Gertrude Austin Bray, Brattleboro

Dorothy Loughery Noa, New Haven, Conn.

## ADVANCED DEGREES

### MASTERS OF EDUCATION

Arthur Benjamin Elliott, A.B., University of Michigan, 1929  
John Avelino Freitas, PH.B., Boston College, 1934  
Elizabeth Bodine Johnson, B.A., Montclair State Teachers College, 1937  
John Norman Murray, A.B., Cedarville College, 1934  
David Samuel Offensend, B.S., Boston University, 1940  
Lawrence Henry Walker, B.S. IN ED., American International College, 1934  
Louise Moor Walls, B.S., State Teachers College, Fitchburg, Mass., 1937

### MASTERS OF ARTS

Stella Marion Adams, B.S., University of New Hampshire, 1927  
Sister Mary Eucharia Menster, B.A., College of St. Rose, 1936

## 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.

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—Frederick S. Harris, '22, 10 Colony St., Meriden, Conn.

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

ALUMNI OFFICE—Waterman Bldg., Burlington, Vt.

HONORARY MEMBERS—President John S. Millis, Dr. Clarence H. Beecher, Proctor H. Page.

EX-OFFICIO MEMBER—George V. Kidder, '22, Administrative Secretary of the University.

### CLASS REPRESENTATIVES

1893 Frank R. Wells, 185 Summit St., Burlington, Vt.

1894 Arthur C. Crombie, The A. C. Lumber Co., 220 East 42nd St., New York City.

1895 M. Shaler Allen, 76 South Ave., New Canaan, Conn.

1896 Lawrence Barnes Hayward, 216 So. Willard St., Burlington, Vt.

1897 Albert E. Lewis, Waterman Bldg., Rms. 1001-1003, 44 School St., Boston, Mass.

1898 Louis C. Dodd, 29 Oakland Place, Buffalo, N. Y.

1899 Carl B. Brownell, 70 Robinson Court, Burlington, Vt.

1900 Dr. Julius E. Dewey, 139 State St., Montpelier, Vt.



- 1901 Samuel S. Dennis, Waterman Bldg., Rms. 1001-1003, 44 School St., Boston, Mass.
- 1902 Harry P. Hudson, 423 Furman St., Schenectady, N. Y.
- 1903 Hollis E. Gray, 209 King St., Burlington, Vt.
- 1904 Elmer E. Gove, Shelburne Rd., Burlington, Vt.
- 1905 Walter H. Washburn, Box 134, Windsor, Vt.
- 1906 Robert L. Whipple, 4 Wheeler Ave., Worcester, Mass.
- 1907 Charles H. Covey, 224 Cooper St., Ottawa, Ont., Canada.
- 1908 William L. Blanchard, 89 Walton Park, Melrose Highlands, Mass.
- 1909 William L. Gardner, 17 Overlake Park, Burlington, Vt.
- 1910 Albert Valentine Kieslich, 167 North Ave., Burlington, Vt.
- 1911 Dr. Robert Leland Maynard, 289 College St., Burlington, Vt.
- 1912 Albert L. Gutterson, 49 Cherry Hill, Springfield, Vt.
- 1913 Everett I. Soule, St. Albans, Vt. (25 Stowell St.)
- 1914 Seth P. Johnson, Williston, Vt.
- 1915 Harold A. Mayforth, Oakwood Manor, 1211 Far Hills Ave., Dayton, Ohio.
- 1916 Morris R. Wilcox, 60 Wells St., Burlington, Vt.
- 1917 Henry T. Way, Porter Screen Co., Winooski, Vt.
- 1918 George C. Stanley, 86 Loomis St., Burlington, Vt.
- 1919 Phillips M. Bell, 247 South Prospect St., Burlington, Vt.
- 1920 Jesse E. Squires, Jericho, Vt.
- 1921 Mrs. Ruth Harrington Lane, 39 Cliff St., Burlington, Vt.
- 1922 Lawrence F. Killick, 10 Greene St., Burlington, Vt.
- 1923 Bartholomew Francis Garrity, 191 Loomis St., Burlington, Vt.
- 1924 Richard D. Aplin, 121 Winslow Rd., Waban, Mass.
- 1925 Thomas D. Cook, 101 Robinson Court, Burlington, Vt.
- 1926 Olney W. Hill, 539 St. Paul St., Burlington, Vt.
- 1927 William M. Lockwood, 273 So. Prospect St., Burlington, Vt.
- 1928 Kenneth H. Gurney, 50 Hillcrest Rd., Burlington, Vt.
- 1929 Constans M. Holden, 257 South Union St., Burlington, Vt.
- 1930 Mary E. Waddell, 137 No. Winooski Ave., Burlington, Vt.
- 1931 Frederick J. Reed, 44 Overlake Pk., Burlington, Vt.
- 1932 James W. Marvin, South Burlington, Vt.
- 1933 James E. Bigelow, Bellows Falls, Vt.
- 1934 Donald J. Tobin, 910 Highland Ave., Bellefonte, Wilmington, Del.
- 1935 Richard Woodard (IN SERVICE).
- 1936 Mrs. Mary Whitney Rowe, 121 So. Willard St., Burlington, Vt.
- 1937 Mrs. Sally Carr Matthews, 38 Ledge Rd., Burlington, Vt.
- 1938 Donald B. Carpenter, 15 Yale St., Maplewood, N. J.
- 1939 Mrs. Priscilla Savage Watt, 290 Soundview Ave., Coscob, Conn.
- 1940 Mary C. Nelson, Chatham Hall, Chatham, Va.
- 1941 Mrs. Jane Allen Hadley, 385 So. Willard St., Burlington, Vt.
- 1942 Dr. Joanna J. Metcalf, Newton Gen'l Hospital, Newton, Mass.

- 1943 Janet A. Hackwell, 15 Spring St., Montpelier, Vt.
- 1944 Elizabeth A. White, Pittsford, Vt.
- 1945 Willson Daily, 1422 West Ontario St., Philadelphia, 40, Pa.

## MEMBERS-AT-LARGE

### *Term Expires 1946*

- James H. Moore, '14, 9 East 38th St., New York City.
- Thomas J. Mulcare, '09, 414 Mt. Auburn St., Cambridge, Mass.
- Howard A. Prentice, '28, 9 Bacon St., Winchester, Mass.
- Fred B. Wright, '05, 195 Broadway, New York City.

### *Term Expires 1947*

- Leon W. Dean, '15, 308 South Prospect St., Burlington, Vt.
- Hovey Jordan, '13, 449 South Prospect St., Burlington, Vt.
- Maurice L. Kelley, '17, 8 Baldwin St., Montpelier, Vt.
- Lyman S. Rowell, '25, 38 Cliff St., Burlington, Vt.

### *Term Expires 1948*

- James R. Jennings, '21, 'Street & Smith,' 122 East 42nd St., New York City.
- Rev. Robert F. Joyce, '17 (IN SERVICE).
- Louis Lisman, '31, 374 So. Union St., Burlington, Vt.
- Loren F. Palmer, '29, 308 Maple St., Burlington, Vt.

### *Term Expires 1949*

- Willis R. Buck, '19, 414 Colchester Ave., Burlington, Vt.
- Raymond E. Holway, '25, Provident Mutual Life Ins. Co., 404 Service Bldg., Rutland, Vt.
- Mrs. Eleanor Lockwood Nowlin, '28, 230 So. Winooski Ave., Burlington, Vt.
- Frederick W. Shepardson, '12, 101 Ledge Rd., Burlington, Vt.

### *Term Expires 1950*

- David W. Howe, '14, 385 South Prospect St., Burlington, Vt.
- J. Hervey Macomber, Jr., '24, 94 Church St., Burlington, Vt.
- Philip J. Ross, '95, Manhattan Life Bldg., 120 West 57th St., New York City.
- Mary Jean Simpson, '15, 61 N. Prospect St., Burlington, Vt.

## CLUB REPRESENTATIVES

### *Out-of-State*

- Greater Boston—Henry Semans, '24, 227 Callender St., Dorchester, Mass.
- Southern California—Mrs. Blanche Montgomery Corley, '17, 501 N. Citrus Ave., Los Angeles, Calif.

Chicago—Harold C. Carter, '25, 1300 So. Courtland Ave., Park Ridge, Ill.  
 Hartford Alumnae—Erminie L. Pollard, '24, 7 Shultas Pl., Hartford, Conn.  
 Hartford Alumni—Charles Henry Blackall, '27, 36 Pearl St., Hartford, Conn.

Connecticut State Alumni—Frederick S. Harris, '22, 10 Colony St., Meriden, Conn.

New York Alumni—Harold M. Robinson, '06, U. S. Chamber of Commerce, 1724 Graybar Bldg., New York City.

New York Alumnae—Mrs. Eleanor Koenig Hirte, '31, 1009 Goodland Pl., Dallas, 11, Texas.

New York Medical Alumni—Dr. Allen M. Margold, '25 (IN SERVICE).  
 Western New York Alumni—Edward H. Farnham, '24, 12 Ashland Ave., Buffalo, N. Y.

Washington, D. C.—Capt. Frederick S. Pease, Jr., '21, War Dept. Bureau of Public Relations, Washington, D. C.

Worcester County—Ralph E. Minckler, '15, 117 Morningside Rd., Worcester, 2, Mass.

### *Vermont*

Addison County—Arthur B. Delano, '11, Shoreham, Vt.

Burlington Alumni—Lemuel J. Peet, '28, 14 Brewer Pkwy., Burlington, Vt.

Burlington Alumnae—Mary O. Boynton, '94, 31 So. Prospect St., Burlington, Vt.

U. V. M. Medical—Dr. Peter P. Lawlor, '20, 65 Pine St., Burlington, Vt.

Caledonia County—James B. Campbell, '09, 15 Summer St., St. Johnsbury, Vt.

Bennington County—Walter C. Wood, '16, 317 Washington Ave., Bennington, Vt.

Franklin and Grand Isle Counties—Robert W. Ready, '24, Franklin Co. Savings Bank Bldg., St. Albans, Vt.

Lamoille County—Mrs. Priscilla S. Davison, '23, Morrisville, Vt.

Orleans and Essex Counties—Roger D. Whitcomb, '38, P. O. Bldg., Newport, Vt.

Rutland County—Walter Belding, '11, 79 Davis St., Rutland, Vt.

Springfield—Dr. Paul C. T. Bacon, 108 Summer St., Springfield, Vt.

Washington County (Orange, Williamstown and Washington)—Preston C. Cummings, 20 Huntington Ave., Barre, Vt.

Windham County—Edmund M. Root, '17, 66 Green St., Brattleboro, Vt.

Windsor County—Robert M. Bent, '35, Windsor, Vt. (IN SERVICE).

# Appendix

## Established Loan Funds, Scholarships, and Prizes

### \*LOAN FUNDS

THE AMERICAN AGRICULTURIST RESEARCH FOUNDATION LOAN FUND, amounting to three hundred dollars, is available to Juniors and Seniors in Home Economics on recommendation of the Dean of the College of Agriculture.

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

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

THE JOHN H. AND MARY A. BLODGETT LOAN FUND, amounting to thirty-five thousand dollars, was established in 1938 by bequest of Mary A. Blodgett late of Rockingham, Vermont. It may be loaned to worthy Vermont boys and girls who are enrolled in any curriculum offered by the University. Preference is to be given to graduates of the Kurn Hattin and Warner Memorial Homes of Westminster and Saxtons River and to students who are residents of the town of Rockingham. The interest charge is to be four per cent during college residence and for one year after leaving and five per cent thereafter until the loan is repaid, subject, however, to modification in particular instances at the discretion of the Loan Fund Committee. Except as indicated above the usual regulations regarding administration of loan funds apply.

THE 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.

\* Only those funds are here listed of which the administration is vested solely in the University. Some other funds are available for Vermont students, and information about them may be obtained from University officers.

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

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

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

THE JEDEVINE FUND was established by the late Allen E. Jeudevine as a memorial to his son, Cornelius A. Jeudevine, who died before his plan of entering college was 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-seven thousand dollars.

THE LADIES OF THE FACULTY LOAN FUND, amounting to eight hundred sixty dollars, is available 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 is loaned to any one girl.

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

THE CHARLES D. AND CARRIE D. ORDWAY LOAN FUND was received at the death of the donor, Charles D. Ordway in 1933. It amounts to more than twenty-six thousand dollars.

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

THE PHI BETA KAPPA LOAN FUND is in process of establishment. Six hundred dollars is now available for loan to members of the senior class, preference being shown to applicants who are members of the society.

THE RIXFORD MANUFACTURING COMPANY LOAN FUND of five hundred dollars is available for the benefit of students who are residents of the town of Highgate.

THE HENRY BIGELOW SHAW LOAN FUND, amounting to three thousand dollars, was established in 1938 by Mrs. Willard Pope in memory of her brother, 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 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 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 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 TERRILL-HOLBROOK LOAN FUND is now in process of establishment. About five hundred dollars is now available for loan to women enrolled in the University, preference being shown to those registered in the Home Economics curriculum.

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

**SCHOLARSHIPS**

**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 FRANKLIN BALDWIN SCHOLARSHIP FUND** of more than five hundred dollars, established in 1915, is available to students from Putney. The award is made on the basis of character and scholastic record.

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

**THE REUBEN CLARK BENTON SCHOLARSHIPS**, two in number, 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 BORDEN AGRICULTURAL SCHOLARSHIP** of three hundred dollars is awarded annually to that eligible student in the College of Agriculture who on entering his Senior year has the highest average grade of all eligible students in all preceding college work. Students who have included in their courses of study two or more dairy subjects are eligible for the award.

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

**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 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 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 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 MOSES D. CARBEE SCHOLARSHIP 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 WALTER CARPENTER SCHOLARSHIP. Preference is given to sons of clergymen and physicians.

CHITTENDEN COUNTY FARM BUREAU SCHOLARSHIPS, two of \$100 each, were awarded in the Fall of 1942 to an outstanding farm boy and farm girl, resident of the county, who enrolled as Freshmen in Agriculture and Home Economics respectively, by the Farm Bureau.

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

THE FRANCIS WHEPLEY 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 CHARLES H. HOOD SCHOLARSHIPS are given by the Charles H. Hood Dairy Foundation established by the late Dr. Charles H. Hood of Boston. Each scholarship has a value of two hundred dollars. The number available



each year is announced by the Dean of the College of Agriculture, who awards them to students who are candidates for a degree in agriculture in accordance with definite restrictions suggested by the donor. High scholastic standing is essential.

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

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

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

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

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

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

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

THE LYNDON INSTITUTE SCHOLARSHIP, 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 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 MARGARET PATTERSON MCDANIELS SCHOLARSHIP FUND was established in 1941 by a bequest from the late George N. McDaniels of Los

Angeles, California, in memory of his mother. The scholarships derived from the income of the endowment are for needy and deserving students, preference being shown to applicants who reside in the towns of Craftsbury and Greensboro. The fund amounts to more than ninety-three thousand dollars.

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 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 JOHN ORDRONAUX 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.

RUSSELL MILLER MILLING COMPANY SCHOLARSHIPS. Two annual educational scholarships of \$100 each, known as the "Occident Flour 4-H Club Scholarships" are available to 4-H Club girls who have done high quality work in Home Economics projects for three years or more.

SEARS-ROEBUCK SCHOLARSHIPS, five of \$120 each, are awarded annually to incoming freshmen in Agriculture, on the basis of need, character, scholastic ability, etc.

THE WILLIAM G. SHAW SCHOLARSHIP 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 of Detroit, Mich., who awards the scholarship.

**THE CHARLES D. SIAS SCHOLARSHIP FUND**, established in 1943 by a bequest of \$15,000 from the estate of Charles D. Sias, of Wenham, Mass., is for the benefit of deserving young men.

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

**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.

**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 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 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 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 income is awarded to one or more deserving men; an equal amount, under similar conditions, to women.

**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.

**WILBUR SCHOLARSHIPS.** The University of Vermont Trust Fund, amounting to over one million dollars, was established by the late James B. Wilbur of Manchester, Vt., as an endowment for scholarships for Vermont students who are in need of assistance to undertake college work and who have earned entrance or college records that indicate extraordinary scholastic ability. From the data presented in annual applications, tentative awards for the ensuing college year are made, in accordance with the conditions of the trust by a Committee of the Trustees during the month of

July. The second semester allotments are reviewed at mid-year and confirmed or denied on the evidence of the scholastic record of the previous semester. Preliminary statements concerning scholastic ability must be submitted with the request for an application blank.

**WIRTHMORE SCHOLARSHIP**, \$100 is awarded annually to a 4-H member who has done outstanding work in 4-H dairy or dairy feeding projects.

## PRIZES

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

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

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

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

**THE BIRNBAUM PRIZE** of twenty-five dollars, given by Bernard A. Birnbaum of Cedarhurst, N. Y., is awarded annually by the University Council, acting on the nomination of the student body, to that senior who during his college course has best exemplified the University traditions as to democracy and friendliness.

**THE B'NAI B'RITH PRIZE** of twenty-five dollars is given annually by the Joseph Frank Lodge to that student at the University who in the opinion of the Committee on Religious Life has done most to encourage inter-faith cooperation and activities.

**THE BUTLER DEBATING PRIZES** were endowed by the late Edward Page Butler of the Class of 1879, who left the sum of one thousand two hundred dollars, the income to be used for the promotion of extemporaneous

debate. From the income of this fund three prizes have been established. These prizes may be awarded annually on recommendation of the head of the English Department to the three women students of the University who have shown the greatest ability in debate. The balance of the income, together with the amounts of any prizes that may not be awarded, will be expended in furthering debating.

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

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

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

THE EMERSON PRIZE IN HISTORY is offered annually at Commencement to perpetuate the scholastic memory of the late Samuel Franklin Emerson, who retired as Emeritus Professor of History in 1923 after forty-two years of service to the University. The prize is awarded to an undergraduate for the best original essay on any topic chosen from any field of history. Essays are not limited as to length but must be type-written, double space, on white paper 8½ by 11 inches in size. Each essay is to be signed by a fictitious name, the identification of which must be given in an accompanying sealed envelope bearing on the outside the fictitious name which was used. All essays considered in the competition must reach the Department of History by April 15. The department will submit the best essays for a selection for award, to an out-

side judge, who may withhold the prize if no essay submitted reaches a sufficiently high standard.

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

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

THE MABEL NELSON JACOBS SCHOLARSHIP CUP is annually awarded to the custody of that sorority, the members of which have won the highest scholastic standing for the preceding year. The cup was provided by the late Mrs. H. J. Nelson in memory of her daughter, Mrs. Mabel Nelson Jacobs, of the Class of 1899.

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

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

The names of the winners of this prize are placed on a tablet given by Mr. Kent and located in the Williams Science Hall.

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

THE KINGSLEY PRIZES IN ELOCUTION are provided annually to Freshmen and Sophomore men for the best declamations of passages of oratorical prose. There are three prizes, the first being twenty-five dollars, the second, fifteen dollars and the third, ten dollars. These prizes were given

for many years by the late Darwin P. Kingsley of the Class of 1881, and have recently been continued by Mrs. Kingsley.

THE LAWRENCE DEBATING PRIZES were established by Edwin Winship Lawrence, of the Class of 1901. The first group of prizes is established in memory of the donor's brother, Robert Ashton Lawrence, '99, and is offered annually to students who, in the judgment of the English department of the University, exhibit the greatest proficiency in debate. The one thousand dollar fund provides three annual prizes.

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

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

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

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

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

THE KIRBY FLOWER SMITH LATIN PRIZE is derived from a three thousand dollar fund established as a memorial to Kirby Flower Smith of the Class

of 1884 and given by his wife. An award is made annually to the student having the highest standing in College Latin 2.

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

THE RUSSELL O. SUNDERLAND MEMORIAL TROPHY is awarded annually at Founder's Day to that man of the Senior class who throughout his college course has best exemplified those qualities of character, leadership and persistence in overcoming obstacles, which were outstanding traits in the life of the late Russell O. Sunderland of the class of 1938. This is a permanent trophy upon which the name of the recipient is engraved annually. The Boulder Society gives a suitable personal trophy to each student who receives the Sunderland Award.

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

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

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



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

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