

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

1791



1945

One Hundred Fifty-Fourth Year

CATALOGUE NUMBER 1944-1945  
VOLUME XLII                      NUMBER 1  
WITH ANNOUNCEMENTS FOR 1945-1946

*Bulletin of*

UNIVERSITY OF VERMONT AND STATE AGRICULTURAL  
COLLEGE

SUPPLEMENT TO CATALOGUE NUMBER OF JANUARY, 1945

Since the publication of the current issue of the catalogue, the University has changed from a semester to a quarter system. The calendar year is divided into four equal quarters, a summer quarter, and three quarters which make up the academic year. Three quarters, therefore, equal two semesters.

Credits will be recorded in quarter hours, fifteen hours constituting a normal enrollment. In an academic year, a student will usually earn 45 quarter hours of credit, and in four years 180 quarter hours. For purposes of conversion three quarter hours equal two semester hours, and throughout the catalogue statements in terms of semester hours concerning requirements should be interpreted on this basis.

This supplementary pamphlet indicates the corrections to be made in the calendar and in the fees, and in general in the requirements in semester hours for graduation. No attempt has been made to restate the outlines of courses in the several curricula, since these have not yet been completely revised. The curricular requirements will remain substantially unchanged, although the individual courses will be revised to cover one, two, or three quarters.

Under each heading below, the page reference given in parentheses indicates the page in the catalogue of January, 1945, to which the correction applies.

ACCELERATED PROGRAM (Page 5)

Hereafter the University will provide an accelerated program for the following only: veterans, seventeen-year-old men, students preparing for admission to Medical College, and those enrolled in the Engineering or Elementary Education curricula.

Entering students in one of the above categories who wish to follow an accelerated program must enter at the beginning of the Summer Quarter. No assurance of an opportunity for acceleration can be given students entering at other times. This does not apply, however, to veterans.

# UNIVERSITY CALENDAR (Page 7)

## SUMMER QUARTER, 1945

Saturday, June 30 .....	Enrollment
Monday, July 2 .....	Classes Begin
Wednesday, July 4 .....	Holiday
Monday, September 3 .....	Labor Day (not a holiday)
Tuesday, September 11 to Saturday, September 15 .....	Examinations

## FALL QUARTER, 1945

Tuesday, October 2 .....	Freshman Preliminary Day
Wednesday, October 3 .....	Freshman Enrollment
Thursday, October 4 .....	Upperclass Enrollment
Friday, October 5 .....	Classes begin
Thursday, November 22 <sup>12 22</sup> .....	Thanksgiving Day, holiday
Friday, December 14 to Wednesday, December 19 <sup>16 21</sup> .....	Examinations

## 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

## WOMEN'S DORMITORIES AND DINING HALLS (Page 39)

Double rooms are \$45 per quarter per occupant, single rooms \$60 per quarter for the summer, fall, and winter quarters, and \$55 for the spring quarter. The price for board is \$95 per quarter.

## THE INFIRMARY (Page 39)

A new infirmary will be opened in the Fall Quarter, and full infirmary service, as well as general health service, will be available for students, under the direction of the University physicians.

## EXPENSES IN ACADEMIC COLLEGES PER QUARTER (Page 40)

Registration 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 10.00
Room Rent in Dormitories .....	45.00 to 60.00
Board in Dining Halls .....	95.00

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Average Total ..... About \$300.00

## TUITION FEES (Page 40)

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 \$50.00 per quarter for residents of Vermont.

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 balance of this section remains unchanged.)

**THE COLLEGE OF MEDICINE.** In this College successive academic years of nine months follow each other without interval. Each academic year consists of two semesters and the tuition charges are unchanged.

**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.

## STUDENT ACTIVITY AND HEALTH FEES (Page 41)

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 of \$11.00 for health and infirmary service, physical education, and student activities.

(The balance of this section is unchanged.)

## LABORATORY AND PRACTICE TEACHING FEES (Pages 41-42)

Changes in details of these fees will be made to conform to the quarter system, but the total costs for comparable courses will not be essentially different.

## APPLIED MUSIC FEES

### PIANO, ORGAN, VIOLIN, AND SINGING (Page 43)

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 lesson in diction for singers, one hour a week.....	10.00	per quarter

## GRADUATION REQUIREMENT (Page 67)

In the Liberal Arts Curriculum of the College of Arts and Sciences, 180 quarter hours of credit will be required for graduation instead of 120 semester hours.

## SPECIAL TUITION FEES (Page 73)

The extra fee for students in the Secretarial or Commercial Teaching Curriculum is \$11.00 per quarter.

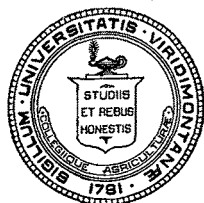
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❧ BULLETIN OF THE ❧  
UNIVERSITY OF VERMONT  
AND STATE AGRICULTURAL COLLEGE  
BURLINGTON - - - - - VERMONT  
VOLUME XLII—JANUARY, 1945—NUMBER 1

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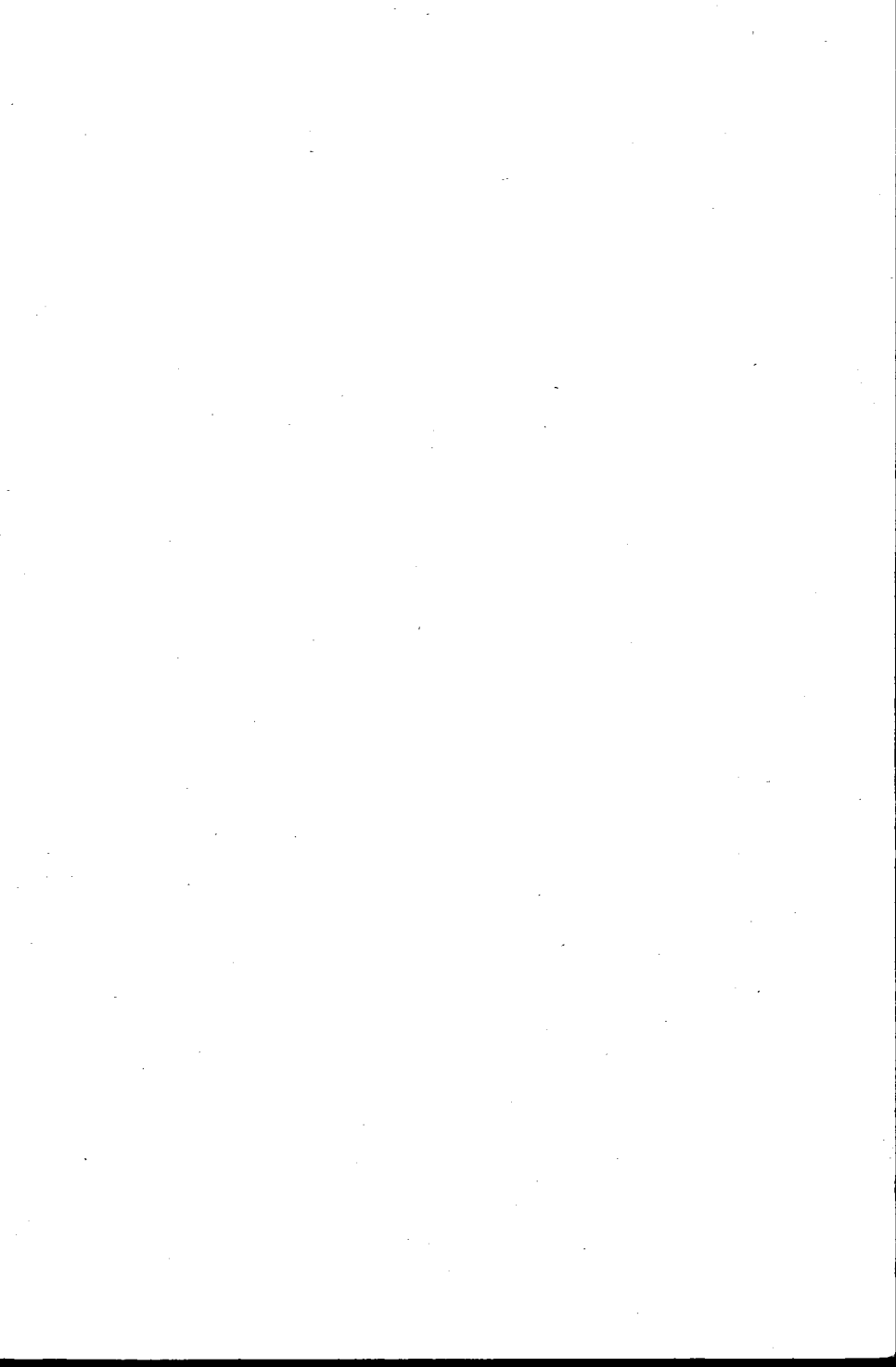


THE CATALOGUE	1944-1945
ANNOUNCEMENTS	1945-1946

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# The University and the War

## 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, 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

For the students who, in the present emergency, wish to complete their college education in the shortest time possible, the University offers an accelerated program so arranged that students may finish the four academic years in three calendar years in most curricula. The College of Medicine is operating entirely on such a program, accepting new students at intervals of nine months (October 1944, July 1945, and April 1946). The combination pre-medical and medical course may be completed in about five calendar years.

## The Reserve Officers Training Corps

All male students in the undergraduate colleges must complete before graduation two years of basic training in Military Science.

The advanced courses in Military Science for Juniors and Seniors and the course in Medico-Military Science for medical students are suspended for the duration of the war.

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

# Calendar

1945

## JANUARY

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1946

## JANUARY

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Med. Coll.

July 5-45 } C.H.B.  
Apr 15-46 }  
Jan 47  
Apr 47

## UNIVERSITY CALENDAR

### SPRING TERM, 1945

Monday, February 5	Enrollment.
Tuesday, February 6	Classes begin.
Monday, February 19	Last day for change of studies.
Saturday, February 24	Kake Walk, University holiday.
Tuesday noon, March 27, to	
Wednesday, April 4	Spring recess.
Friday, May 25 through Thurs-	
day, May 31	Final examinations.
Wednesday, May 30	Memorial Day, University holiday.
Monday, June 4	Commencement.

### SUMMER TERM, 1945

Monday, June 18	Enrollment.
Tuesday, June 19	Classes begin.
Monday, July 2	Last day of change of studies.
Wednesday, July 4	University holiday.
Wednesday, September 5 through	
Friday, September 7	Final examinations.

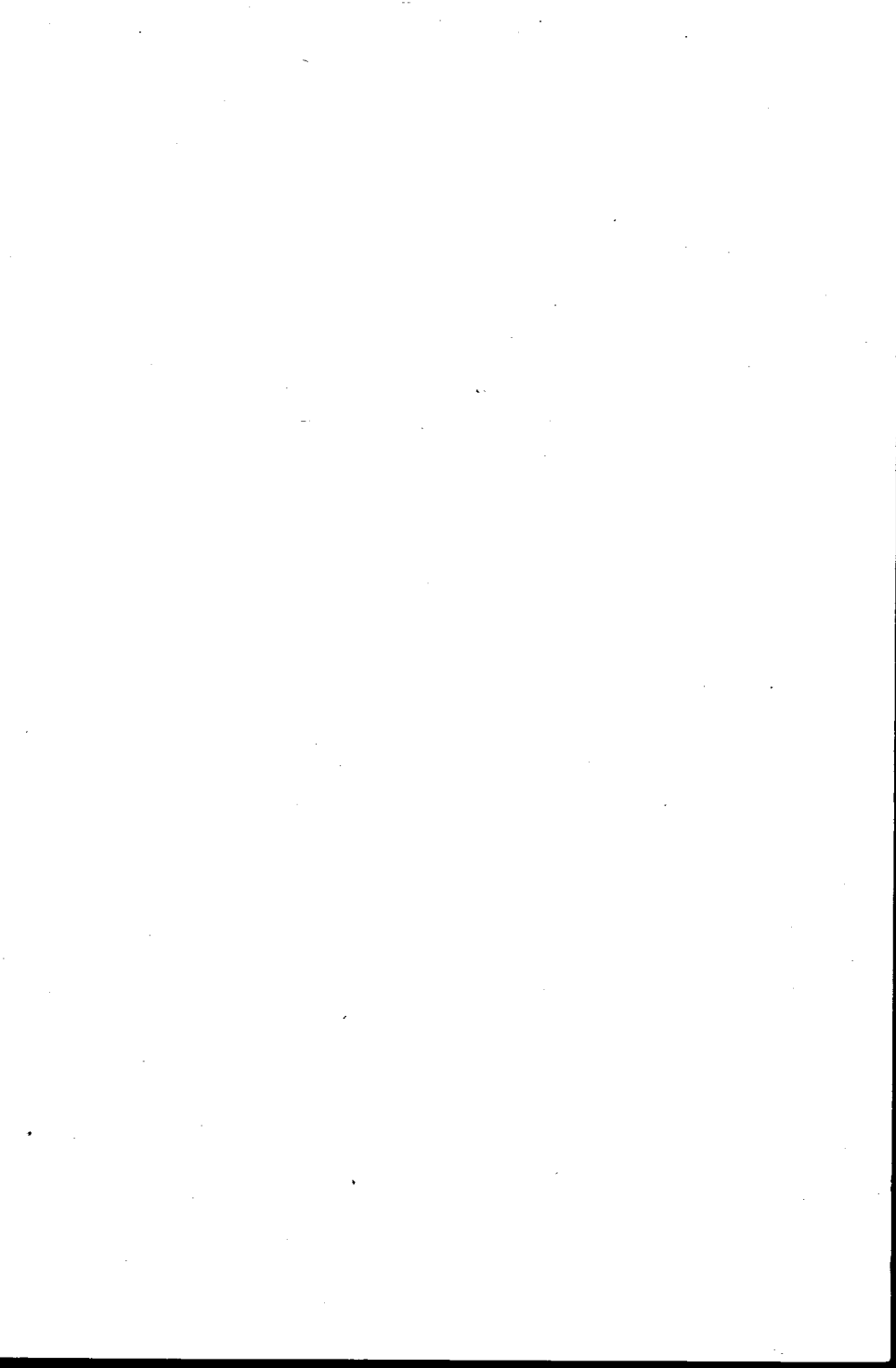
### SUMMER SESSION, 1945; July 9 through August 17.

### FALL TERM, 1945-46

Monday, September 24	Freshman Preliminary Day.
Tuesday, September 25	Freshman Enrollment.
Wednesday, September 26	Enrollment.
Thursday, September 27	Classes begin.
Wednesday, October 10	Last day for change of classes.
Thursday, November 22 through	
Sunday, November 25	Thanksgiving recess.
Thursday, December 20 through	
Wednesday, January 2	Christmas recess.
Monday, January 28 through	
Friday, February 1	Final examinations.

### SPRING TERM, 1946

Saturday, February 2	Enrollment.
Monday, February 4	Classes begin.
Monday, February 18	Last day for change of studies.
Saturday, February 23	Kake Walk, University holiday.
Sunday, March 31, through Sun-	
day, April 7	Spring recess.
Friday, May 24 through Wednes-	
day, May 29	Final examinations.
Monday, June 3	Commencement.



# Administration

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1942-46

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1942-48

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University Club, New York City

1944-50

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- 
- |   |                     |
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13

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FLORANCE BEESON KING, Ph.D. Professor of Home Economics	371 Pearl St.
WELLINGTON ESTEY AIKEN, A.M. Professor of English	52 N. Prospect St.
†CHARLES ERNEST BRAUN, Ph.D. Pomeroy Professor of Chemistry	173 DeForest Rd.
ALBERT GEORGE MACKAY, M.D. Professor of Surgery	120 Ledge Rd.
CHARLES EUGENE FOGG, M.D. Lieut. Col., U. S. Army Professor of Medico-Military Science	Waterman Building

\* Resigned, December 16, 1944.

† Absent on leave: Military Service.

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THOMAS WRIGHT MOIR CAMERON, Ph.D., D.Sc. Visiting Professor of Tropical Medicine	McDonald College Quebec, P. Q.
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GEORGE HENRY HAND, Ph.D. Converse Professor of Economics	49 Mansfield Ave.
FRANCIS SYLVESTER QUINLAN, Ph.D. Professor of Chemistry, St. Michaels' College and Trinity College (Instructing 1944-45)	173 Loomis St.

## Associate Professors

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GEORGE DYKHUIZEN, Ph.D. Associate Professor of Philosophy	350 S. Prospect St.
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GEORGE VINCENT KIDDER, Ph.D. Associate Professor of Classical Languages and Literatures	206 Summit St.
LELAND LAWRENCE BRIGGS, M.B.A. Associate Professor of Economics	13 Bay View St.
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PAUL AMOS MOODY, Ph.D. Associate Professor of Zoology	197 Howard St.
PERCY AUSTIN FRALEIGH, Ph.D. Associate Professor of Mathematics	160 Shelburne St.

\* Resigned, December 1, 1944.

† Military leave.

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15

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‡JOHN ALLEN HITCHCOCK, M.S. Associate Professor of Agricultural Economics	15 Weston St.

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† Military leave.

‡ Deceased November 8, 1944.

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† Absent on leave.

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*MILTON HARRIS ALDRICH, M.S.E. Assistant Professor of Civil Engineering	
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†REX MADISON COLLIER, Ph. D. Assistant Professor of Psychology	
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‡PAUL DENNISON CLARK, M.D. Assistant Professor of Pediatrics	
LOUIS BENSON, M.D. Assistant Professor of Preventive Medicine	Pittsford
ARTHUR RUSH HOGAN, M.D. Assistant Professor of Clinical Surgery	8 S. Willard St.

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† Absent on leave: Military Service.

‡ Military leave.

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*JESSE OGLEVEE ARNOLD, II, M.D. Assistant Professor of Clinical Neurology	
ARTHUR GLADSTONE, M.D. Assistant Professor of Clinical Surgery	217 So. Union St.
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HERBERT DEAN PEARL, M.A. Assistant Professor of Education	154 Summit St.
HELEN RENWICK LEBARON, M.S. Assistant Professor of Home Economics	416 Pearl St.
HELEN ELIZABETH UNDERWOOD, M.A. Assistant Professor of Home Economics	376 College St.
STUART STARNES CORBIN, M.D. Assistant Professor of Pediatrics	544 S. Willard St.
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CHARLES FREDERICK THORNE, Ph.D., M.D. Assistant Professor of Psychiatry	Brandon
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CONSTANCE LORRAINE BROWN, M.S. Instructor in Chemistry	230 S. Union St.
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- †GEORGE CHANDLER TULLY, M.D.  
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ROBERT BASCOM AIKEN, M.D. Instructor in Industrial Hygiene	88 Robinson Pkwy.
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‡ROBERT ELI LONG, Ph.D. Instructor in Political Science	
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EDWARD LAWRENCE TRACY, B.S. Instructor in Public Health	37 Ledgemere St.
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†JAMES EDWARD PHILIP TOMAN, Ph.D. Instructor in Pharmacology and Physiology	

\* Military leave.

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MARGUERITE KINGSBURY, M.D. Instructor of Medicine	Mary Fletcher Hospital
MRS. MARY WHITNEY ROWE, A.B. Instructor in Music	121 S. Willard St.
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Essex Junction

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† Resigned, December 16, 1944.

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PAUL AMOS MOODY, Ph.D. Director of Graduate Study	197 Howard St. Waterman Building
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ELBRIDGE CHURCHILL JACOBS, S.B., A.M. Curator of Geological and Mineralogical Collections	146 Williams St. Fleming Museum
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THEODORE HENRY HARWOOD, M.D. Director Student Health Service; Director of Dispensary	56 Ledge Rd. Waterman Building

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ELEANOR RUST BAYLEY, M.A. Assistant Dean of Women and Director of Dormitory	56 Summit St. Waterman Building

\* Absent on leave: Military Service.

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WILLIAM M. TULLY Head Janitor	82 East Ave. Medical Building
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MRS. ANNA P. WILLARD Director Grassmount	411 Main St.
MRS. PAUL M. PILCHER Director Redstone	Redstone Campus
MRS. C. W. RICHMOND Director Roberts House	232 S. Willard St.
MRS. FRED H. TOWNE Director Robinson Hall	Redstone Campus
MRS. E. C. DRESSER Director Sanders Hall	368 College St.

\* Resigned as of February 1, 1945.

## The Staff

27

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MRS. CONSTANCE COLE Director Sigma Phi House	420 College St.
MRS. SAMUEL FOSTER Director Kappa Sigma House	368 Main St.
MRS. CARRIE POWER Director Sigma Nu House	21 Williams St.
MRS. R. G. GOSS Director Warner House	96 Colchester Ave.
MRS. C. C. MOODY Director Claggett House	301 S. Willard St.

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MARY OLIVE BOYNTON, Ph.B. Librarian, Medical Library	31 S. Prospect St.
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ELWIN LEROY INGALLS, A.B. State 4-H Club Leader	144 S. Willard St.
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## The Senate Committees, 1944 - 1945

- ADMISSIONS—J. T. Metcalf, Chairman, R. O. Buchanan, Dr. E. H. Buttles, W. H. Martin, the Deans, and H. K. Riggs.
- CEREMONIES—H. G. Millington, Chairman, E. D. McSweeney, Mrs. Isabel C. Mills, I. Pappoutsakis, H. F. Perkins, J. E. Pooley, and R. O. Buchanan.
- LIBRARY—J. I. Lindsay, Chairman, Florence E. Bailey, J. H. Lochhead, J. A. Bullard, G. Dykhuizen, A. Gershoy, A. G. Mackay, and L. M. Prindle.
- POLICY—P. D. Evans, Chairman, J. A. Bullard, H. A. Durfee, Florance B. King, and L. M. Prindle.
- PUBLICATIONS—L. W. Dean, Chairman, E. L. Amidon, G. V. Kidder, P. R. Miller, and H. K. Riggs.



- PUBLIC RELATIONS**—H. Jordan, Chairman, J. E. Carrigan, D. B. Carroll, R. G. Chapman, L. W. Dean, G. V. Kidder, and Director of Admissions.
- RELIGIOUS LIFE**—G. Dykhuizen, Chairman, Constance Brown, J. B. DeForest, A. Gladstone, R. A. Hall, Catherine F. Nulty.
- STUDENT ACTIVITIES**—E. R. McKee, Chairman, N. N. Allen, F. D. Carpenter, P. A. Fraleigh, P. P. Lawlor, A. E. Nuquist, and Florence M. Woodard.
- STUDENT AID**—The President, Chairman, Florence E. Bailey, G. V. Kidder, the Deans, the Director of Admissions, and the Treasurer.
- STUDENT CONFERENCE**—D. B. Carroll, Chairman, W. E. Aiken, Eleanor S. Cummings, R. F. Doane, Helen R. LeBaron, Mary Jean Simpson.
- STUDENT HEALTH**—T. H. Harwood, Chairman, Florance B. King, and A. T. Post.
- STUDENT PERSONNEL**—A. R. Gifford, Chairman, B. C. Douglass, J. W. Marvin, C. A. Newhall, L. B. Puffer, L. S. Rowell, and the Deans.

## AGRICULTURAL EXPERIMENT STATION STAFF

### Administration

JOHN SCHOFF MILLIS, Ph.D., LL.D. President	204 S. Willard St.
JOSEPH EDWARD CARRIGAN, A.M. Director	188 Loomis St.
HARRY ROSS VARNEY, Ph.D. Assistant Director	502 North St.
PROCTOR HULL PAGE, LL.B. Treasurer	100 DeForest Rd.

### *Agricultural Economics*

*JOHN ALLEN HITCHCOCK, M.S. Agricultural Economist	15 Weston St.
SHELDON WARD WILLIAMS, Ph.D. Associate Agricultural Economist	40 Gilbert St. South Burlington
THURSTON MADISON ADAMS, Ph.D. Assistant Agricultural Economist	240 Loomis St.
ROBERT MCCRILLIS CARTER, JR., Ph.D. Rural Sociologist	334 College St.

\* Deceased, November 8, 1944.

## *Agronomy*

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

Appletree Point  
41 University Ter.

DAVID EDWARD DUNKLEE, M.S.  
LESTER HURLIN SMITH, M.S.  
KENNETH EVERSON VARNEY, M.S.  
RICHARD DAVIS HALLIGAN, M.S.  
Assistant Agronomists

1 Appletree Ct.  
Colchester  
5 School St.  
28 Brookes Ave.

## *Animal and Dairy Husbandry*

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

55 Robinson Pkwy.

OSMAN MYRON CAMBURN, M.S.  
ERNEST OLIVER HERREID, Ph.D.  
JOHN ALVIN NEWLANDER, Ph.D.  
NATHANIEL NEWTON ALLEN, Ph.D.  
Associate Animal and Dairy Husbandmen

26 Robinson Pkwy.  
R. F. D. 2  
45 University Ter.  
Spear St.

JAMES MARSHALL FRAYER, M.S.  
Associate Dairy Bacteriologist

281 S. Winooski Ave.

NEIL KENNETH WILLIAMS, Ph.D.  
Assistant Animal and Dairy Husbandman

1 Handy Ct.

## *Botany*

JAMES WALLACE MARVIN, Ph.D.  
Botanist

Spear St.  
South Burlington

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

126 No. Willard St.  
29 Adams Ct.  
43 N. Willard St.

## *Chemistry*

MURRAY WILBUR FOOTE, B.S.  
Assistant Chemist

Shelburne

## *Home Economics*

MARIANNE MUSE, M.S.  
Home Economist

155 S. Prospect St.

\* Absent on leave: Military Service.

*Horticulture*

CHARLES HUGO BLASBERG, M.S.  
MARSHALL BAXTER CUMMINGS, Ph.D.  
Horticulturists

120 Robinson Pkwy.  
230 Loomis St.

*Plant Pathology*

BENJAMIN FRANKLIN LUTMAN, Ph.D.  
Plant Pathologist

111 N. Prospect St.

## PUBLICATIONS

HARRY PERRY MILEHAM, M.A.  
Editor

Essex Jct.

*Regulatory Service*

LEWELL SETH WALKER, B.S.  
EUGENE FIELD BOYCE, B.S.  
Chemists

395 College St.  
Spear St.  
South Burlington

MRS. ANNA SHEPARD LUTMAN, Ph.B.  
Seed Analyst

111 N. Prospect St.

## ENGINEERING EXPERIMENT STATION STAFF

*Administration*

JOHN SCHOFF MILLIS, Ph.D., LL.D.  
President

204 S. Willard St.

GEORGE FREDERICK ECKHARD, B.S., C.E.  
Director

178 Summit St.

PROCTOR HULL PAGE, LL.B.  
Treasurer

100 DeForest Rd.

MARION E. WILLIS  
Secretary

82 Monroe St.

*Civil Engineering*

LOUIS BLACKMER PUFFER, C.E.

176 Loomis St.

*Electrical Engineering*

EDD RUTHVEN MCKEE, M.S., E.E.

42 Henderson Ter.

## *Mechanical Engineering*

ROBERT GORHAM CHAPMAN, M.M.E.

58 Ledge Rd.

## EXTENSION SERVICE STAFF

### Administration

JOHN SCHOFF MILLIS, Ph.D., LL.D.  
President

204 S. Willard St.

JOSEPH EDWARD CARRIGAN, A.M.  
Director

188 Loomis St.

HARRY ROSS VARNEY, Ph.D.  
Assistant Director

502 North St.

HARRIS WELLS SOULE, B.S.  
State Agricultural Agent Leader

308 Main St.

ROBERT POWERS DAVISON, B.S.  
State 4-H Club Agent Leader

Essex Junction

MARY PAULINE ROWE, B.S.  
Assistant State 4-H Club Agent Leader

121 S. Willard St.

MARJORIE ELLINWOOD LUCE, B.S.  
State Home Demonstration Agent Leader

230 S. Union St.

HARRY PERRY MILEHAM, M.A.  
Editor

Essex Junction

\*LEROY JAMES DOPP, Jr.  
Administrative Clerk

MRS. GEORGIA B. TEABY  
Administrative Clerk

270 Main St.

### Specialists

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Agricultural Economist

5 Handy Ct.

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ROBERT McCRILLIS CARTER, JR., Ph.D.  
Assistant Agricultural Economists

240 Loomis St.

334 College St.

PAUL ROBERT MILLER, M.S.  
Agronomist

Appletree Point

LESTER HURLIN SMITH, M.S.  
Assistant Agronomist

Colchester

EDNA ELLA SOMMERFELD, M.A.  
Clothing Specialist

342 Pearl St.

\* Military leave.

EDWARD HILDRETH LOVELAND, A.M.  
Dairyman

Stowe

NATHANIEL NEWTON ALLEN, Ph.D.

Spear St., S. Burlington

JAMES MARSHALL FRAYER, M.S.

281 S. Winooski Ave.

WILLIAM PATRICK LEAMY, B.S.

27 School St.

Assistant Dairymen

MRS. CHARLOTTE PIERPONT BROOKS, B.S.

20 N. Williams St.

Home Management Specialist

CHARLES HUGO BLASBERG, M.S.

120 Robinson Pkwy.

Horticulturist

LOUISE MAY STOLLBERG, A.M.

216 S. Willard St.

Nutritionist

DONALD CEDRIC HENDERSON, M.S.

55 University Ter.

Poultryman

## County Agricultural Agents

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JAMES ALBERT McKEE, B.S.

Bennington

Bennington County

THOMAS HILLIARD BLOW, B.S.A.

St. Johnsbury

Caledonia County

KENNETH EARL BOYDEN, B.S.

R.F.D. 1

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Burlington

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Guildhall

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Franklin County

LUCIEN DEMERS PAQUETTE, B.S.

North Hero

Grand Isle County

FRANK DYER JONES, B.S.

Morrisville

Lamoille County

RAYMOND RICHARD ROGERS, B.S.

Chelsea

Orange County

ROGER DAVIS WHITCOMB, B.S.

Newport

Orleans County

ROY ALLEN BURROUGHS, B.S.

Rutland

Rutland County

CARROLL FREDERICK STRONG (Acting)

Montpelier

Washington County

EDMUND MORTON ROOT, B.S.

Brattleboro

Windham County

\*EDWARD JAY CROOK, B.S.

†GEORGE MILES NELSON, B.S.  
Windsor County

Woodstock

## Home Demonstration Agents

MRS. LEONA WARREN THOMPSON, B.S.  
Addison County

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MRS. MARION STONE HARRIS, B.S.  
Bennington County

Bennington

ELIZABETH RECORDS HENDRICK, B.S.  
Caledonia County

St. Johnsbury

JENNIE MAY SWETT, B.S.  
Chittenden County

985 North Ave.  
Burlington

RHODA ALETHA HYDE, A.M.  
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MRS. ELIZABETH EMMONS ROBINS, B.S.  
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Morrisville

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BERTHA MARY LEE, Ph.B.  
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Rutland

FLORA ELIZABETH PERLEY, B.S.  
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Brattleboro

MRS. JENNIE ARMSTRONG HALL, B.S.  
Windsor County

Woodstock

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Addison County

Middlebury

MARION HARDY, A.B.  
Bennington County

Bennington

DOROTHY ELLEN PECK, B.S.  
Caledonia County

St. Johnsbury

†MRS. HELEN BERNABY LAWRENCE, B.S.  
Chittenden County

Shelburne

LILLIAN ANDREWS, B.S.  
Franklin County

St. Albans

\* Absent on leave: Military Service.

† On temporary basis.

LUCY WARREN BAGLEY, B.S. Lamoille County	Morrisville
CLARADELLA SNOW, B.S. Orange County	Chelsea
HUGH JOHN PHILLIPS RIPPER, B.S. Orleans County	Newport
EDWIN EMIL BERGSTROM Rutland County	Rutland
EVELYN GREENE YOUNG, A.B. Washington County	Montpelier
BRUCE ROBERT BUCHANAN, B.S. Windham County	Brattleboro
MRS. ISABELLE PAIGE BARDEN Windsor County	Woodstock

## The Summer Session, 1944

### Administration

JOHN S. MILLIS, Ph.D., LL.D. President	HEATH K. RIGGS, M.S. Director of Admissions
RALPH E. NOBLE, A.M., Pd.D. State Commissioner of Education	HELEN B. SHATTUCK, A.B. Librarian
BENNETT C. DOUGLASS, Ph.D. Director of the Summer Session	GLADYS FLINT, A.B. Assistant Librarian
MARY JEAN SIMPSON, Ph.B. Dean of Women	HELEN E. UNDERWOOD, M.A. Director of Food Services
FORREST W. KEHOE, B.S. Registrar of the University	A. JOYCE WOODRUFF, B.S. Secretary

### The Faculty

NELLE A. ADAMS, A.M. Assistant Professor of Education	ELIZABETH BURGESS, A.M. Professor of Nursing Education, Columbia University, New York City
WELLINGTON E. AIKEN, A.M. Professor of English	ARTHUR D. BUTTERFIELD, DR. ENG. Professor of Mathematics and Geod- esy
NORMA JEAN BARITEAU, M.E. Instructor in Nursing Education, N. Y. Medical College, N. Y.	DANIEL B. CARROLL, Ph.D. Professor of Political Science
HOWARD G. BENNETT, A.M. Professor of Music	FRANCIS COLBURN, Ph.B. Artist in Residence
JAMES A. BULLARD, Ph.D. Professor of Mechanics and Mathematics	

- FAYE CRABBE, A.M.  
Associate Professor of Nursing
- ROLAND F. DOANE, A.M.  
Assistant Professor of Romance Languages
- JOHN W. DODD, Ph.D.  
Superintendent of Schools, Freeport, N. Y.
- ELEAZER J. DOLE, Ph.D.  
Associate Professor of Botany
- GEORGE DYKHUIZEN, Ph.D.  
Associate Professor of Philosophy
- PAUL D. EVANS, Ph.D.  
Professor of History
- FLORENCE M. FISHER  
Demonstration Teacher, Grades 1 and 2
- WALLACE E. GREENE, A.M.  
Demonstration Teacher, High School
- SARA M. HOLBROOK, A.M.  
Assistant Professor of Education
- JOHN C. HUDEN, Ph.D.  
State Supervisor in Charge of High Schools
- ARLINE JOHNSON, M.S.,  
Instructor in Home Economics, State Teachers College, Buffalo, N. Y.
- GEORGE V. KIDDER, Ph.D.  
Associate Professor of Classical Languages and Literatures and Director of Recreation
- JOHN L. LAMBERT, A.B.  
Demonstration Teacher, High School
- JULIAN I. LINDSAY, A.M.  
Associate Professor of English
- MIRIAM N. MARSTON, A.M.  
Instructor in Music (Piano and Organ)
- ELIZABETH MELBY, A.M.  
Educational Director, Yale University School of Nursing
- JOHN T. METCALF, Ph.D.  
Professor of Psychology
- HOWARD G. MILLINGTON, C.E.  
Assistant Professor of Mathematics
- ISABEL CLARK MILLS, A.M.  
Instructor in Art
- PAUL A. MOODY, Ph.D.  
Associate Professor of Zoology and Director of Graduate Study
- ELIZABETH W. MORRILL, A.M.  
Director, Peter Pan Nursery School
- MAURICE MORRILL, B.S.  
Director of Research in Applied Economics
- HELENE NICHOLS, A.M.  
Special Teacher and Consultant in Elementary Science, Manhasset, N. Y.
- CATHERINE F. NULTY, Ed.M.  
Associate Professor of Economics (Secretarial)
- ANDREW E. NUQUIST, Ph.D.  
Associate Professor of Political Science
- IPPOCRATES PAPPOUTSAKIS, MUS.B.  
Instructor in Music
- VERNA E. PARKER, A.M.  
Instructor in Education
- HERBERT D. PEARL, A.M.  
Principal, Burlington High School and Assistant Professor of Education
- REBEKAH J. PETTIS, B.S.  
Demonstration Teacher, High School
- HERBERT E. PUTNAM, Ph.D.  
Associate Professor of History
- CLARA QUEREAU, A.M.  
Secretary Accrediting Committee, National League of Nursing Education
- MARGARET E. RIEGEL, A.M.  
Assistant Professor of Home Economics Education, Pennsylvania State College
- ROBERT SCHATTEN, Ph.D.  
Assistant Professor of Mathematics
- MARY B. SULLIVAN, A.M.  
Assistant Professor of Education



ELEANOR SUTCLIFFE

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

DOROTHY THORNTON, B.S.

Instructor in Physics

RANDOLPH S. TOWNE, A.M.

Assistant Professor of French and  
Spanish

HELEN E. UNDERWOOD, A.M.

Assistant Professor of Home Eco-  
nomics

BENJAMIN B. WAINWRIGHT, A.M.

Assistant Professor of English

MAYNARD E. WALTZ, A.M.

Coordinator of Applied Economics  
Program, State Teachers College,  
Keene, N. H.

MARIE R. WHEELOCK, A.M.

Supervisor of Intermediate Grades,  
State Teachers College, Fitchburg,  
Mass.

MYRON E. WITHAM, C.E.

Assistant Professor of Mathematics

HELEN WOOD, A.M.

Director, Simmons College School  
of Nursing

FLORENCE M. WOODWARD, Ph.D.

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, and  
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 \$135 per year per occupant, single rooms \$175. Students living in college owned dormitories board at the Waterman Dining Hall or Robinson Hall. The price for board is \$137.50 per semester, payable in October and February.

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 INFIRMARY

An infirmary with limited facilities, but with a practical nurse in attendance, is maintained in one of the residence halls, to care for light cases of illness. No charge is made for girls living in college dormitories. For those living outside a nominal fee of seventy-five cents a day is charged for room, board, and attendance. Any case of serious illness must be sent to one of the two modern, well-equipped hospitals which adjoin the campus.

## EXPENSES AND FEES

## SUMMARY OF EXPENSES IN ACADEMIC COLLEGES PER ACADEMIC TERM (16 WEEKS).

Registration Fee (new students only) .....	\$ 5.00
Tuition (for exception, see below) .....	175.00
Student Activity Fee .....	10.00
Textbooks and supplies .....	\$12.00 to 20.00
Laboratory Fees .....	None to 15.00
Room rent in Dormitories .....	67.50 to 87.50
Board in Dining Halls .....	about 140.00
<hr/>	
Average total .....	about \$435.00

## REGISTRATION 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 \$175 is due and payable at the opening of each semester in the College of Agriculture and the College of Engineering, 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 semester charge of \$17.50 for this specialized training makes the total tuition \$192.50 each semester.

For partial enrollment the charge is \$16.00 per semester hour, unless the total exceeds the normal tuition of \$175 per semester. The same fee is charged students carrying for credit courses in excess of the normal program in the several curricula, as outlined in the Catalogue. 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 80.

**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 \$10.00 per semester 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 semester are made as follows: up to the date of the closing of registration in the first semester and during the first week of the second semester the full amount is refunded; thereafter rebates are made at 10 percent less for each succeeding week. The Student Activity Fee will not be refunded in whole or in part. No allowances or refunds are made to students temporarily absent from the University. Students forced to withdraw to enter the armed forces will not suffer financially because of this.

## STUDENT ACTIVITY 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 year for the ensuing college year a fee of thirty-five dollars (\$35),\* which is apportioned for the support of all recognized student activities in these colleges. The fee is also charged to those first-year medical students who have entered that college on the minimum preparation of three years in the College of Arts and Sciences of the University, unless four payments of the fee have been previously made. The Osler Club Fee of three dollars and fifty cents (\$3.50) is payable annually at the opening of college for the ensuing college year by all students in the College of Medicine. The Osler Fee is derived from the Student Activity Fee for those first-year medical students who are liable for the academic Student Activity Fee. This fee covers athletics, with free admission to home games, class and year-book taxes, subscriptions to the University newspaper, and the support of recognized student organizations and activities.

## 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

\* For the duration, since activities are limited, the fee is \$10.00 each semester.

expense of providing the special facilities incident to the courses. Bills are sent out in October and February for the current semester.

SUBJECT	FEE EACH SEMESTER
Agricultural Education 5 .....	\$ 2.50
Agricultural Engineering 1 .....	2.50
Agronomy 1, 5, 6, each .....	2.50
Animal and Dairy Husbandry 1 .....	2.50
Animal and Dairy Husbandry 4 .....	3.00
Animal and Dairy Husbandry 8 .....	5.00
Art: Applied Art 1, 2, Drawing and Painting 1, each .....	1.00
Drawing and Painting 2 .....	2.00
Botany 1, 2, 3, 4, 6, 8, 10, each .....	2.50
Botany 7 (Microtechnique) .....	4.00
Botany 11, 12, 13, 15, 118, each .....	5.00
Chemistry 1, 2, 3, 4, 9, 15, 19, 22, 23, 105, 112A, 112B, each .....	5.00
Chemistry 20, 24, each .....	7.50
Economics 64 (Practice Teaching) .....	10.00
Education 8 (Practice Teaching) .....	10.00
Education 9, 10 (Measurements), each .....	2.00
Elementary Education, Observation Fee .....	2.00
Elementary Education 332, 339, each .....	2.00
Elementary Education 337, 338, 340, each .....	1.00
Elementary Education 346 (Educational Biology) .....	4.00
Engineering Courses, per laboratory hour .....	2.50
Geology 1, 3, 7 .....	2.50
Geology 6 .....	5.00
Geology 9 (Mineralogy) .....	3.00
Home Economics:	
Clothing and Textiles 11, 20, 21, 30, 32, 40, 42, each .....	2.50
Food and Nutrition 20, 30, 40, 41, each .....	5.00
Food and Nutrition 42 .....	2.50
Home Economics Education 41 .....	10.00
Horticulture 1, 3, 4, each .....	2.50
Physics 1, 102, 104, 105, 106, 107, 108, each .....	5.00
Physics 3 .....	2.50
Poultry Husbandry 3 .....	10.00
Zoology 1, 2, 7, each .....	4.00
Zoology 5, 8, 15, each .....	2.50
Zoology 6 (Comparative Anatomy) .....	5.00
Zoology 106 (Primate Anatomy) .....	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 three 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.

## APPLIED MUSIC FEES

## PIANO, ORGAN, VIOLIN AND SINGING

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

Private lessons are approximately one-half hour in length, fifteen being given in each semester. 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 Dean Eckhard of the College of Engineering.

*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.

†*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

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

† Suspended for the duration of the war.

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 college 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 B or above for the work of the preceding

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

three years, may become an applicant for Special Honors in a particular subject. His program for the Senior year must be approved 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 semester the names of those students who have attained an average of at least "B" in their college credit courses during the preceding semester.

#### PHI BETA KAPPA

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

### 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. With the exception noted in the next sentence, every candidate for a degree will be required to spend his final year in residence. Those who have completed their three years of pre-medical study in the University will be awarded their degree 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 Education*. (Ed.B.)
- \*INDUSTRIAL EDUCATION CURRICULUM; *Bachelor of Science in Education*. (B.S. in Ed.)

## COLLEGE OF ENGINEERING

- CIVIL ENGINEERING CURRICULUM; *Bachelor of Science in Civil Engineering*. (B.S. in C.E.)
- ELECTRICAL ENGINEERING CURRICULUM; *Bachelor of Science in Electrical Engineering*. (B.S. in E.E.)
- MECHANICAL ENGINEERING CURRICULUM; *Bachelor of Science in Mechanical Engineering*. (B.S. in M.E.)

## COLLEGE OF AGRICULTURE

- AGRICULTURAL 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.

- \* 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.

New students should apply to the Director of Graduate Study for admission, submitting transcripts of their undergraduate records.\* 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 registration fee and tuition charges are the same as for undergraduate students. 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 produc-

\* Include, if possible, report of attainment in the Graduate Record Examination.

tion 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 inde-

pendent 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. Ordinarily the taking of two or more advanced courses in this field will be required.

## 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 thirty semester hours of approved graduate work must be taken and passed with distinction. Not less than six of the thirty semester 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 six semester 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.

## TECHNICAL DEGREES

The advanced degrees of Civil Engineer, Mechanical Engineer, and Electrical Engineer may be conferred upon graduates of the College of Engineering of the University of Vermont. 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 who need certain required courses for admission to college.
4. Students or teachers with adequate preparation who desire to take courses leading to a Bachelor's degree.
5. 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.
6. Students who desire instruction in Art, Music, Visual Instruction, or Physical Education.
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 maintain a clinic in the Waterman Building. 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 instruction 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 twice a year. Special reports of low standing are sent by the Deans' offices at least twice during the first and at least once during the second semester. All these reports are made both to the student concerned and 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 disciplinary 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 English 1 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 ap-

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

plication and credentials as early as possible, at any time after the first of 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:

	UNITS
English (4 years) .....	3
Foreign Language (Ancient or Modern, 2 years) .....	2
Elementary Algebra .....	1
Plane Geometry .....	1
History .....	1
Science .....	$\frac{1}{2}$ or 1

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:

	UNITS
English (4 years) .....	3
Algebra (Elementary and Intermediate) .....	2
Plane Geometry .....	1
Solid Geometry .....	$\frac{1}{2}$
History .....	1
Science .....	$\frac{1}{2}$ or 1

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:

	UNITS
English (4 years) .....	3
Elementary Algebra .....	1
Plane Geometry .....	1
Science (2 years) .....	2

History and a third year of Mathematics are also desirable.

Courses considered especially desirable for prospective students in Home Economics are:

	UNITS
English (4 years) .....	3
Foreign Language (2 years of one language) .....	2
Elementary Algebra .....	1
Plane Geometry .....	1
History .....	1
Science (2 years) .....	2

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. 78-80.

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

The tuition charge is \$16.00 per semester 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 a silent reading test and analysis of work interest test. The scores are used in advising students regarding the course of study to pursue, and vocational plans. Personal data, physical examination and placement tests are also included in the program.

## ADMISSION TO ADVANCED STANDING

All applicants for admission who have attended another collegiate institution are required to file with the Registrar's 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 semester's work at the University. If the student is in good standing at the end of his first semester, the transfer credits are fully granted. If, however, he is under warning, his transfer credits are reviewed by the Departments concerned and they 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. Enrollment for the second semester occurs on the day before the first day of that semester. A receipt from the Treasurer showing that tuition charges for the ensuing half-year have been paid, must be presented before enrollment can be completed. Directions for enrollment are published for each semester.

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

# 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** (including **Secretarial Studies**), and **Secondary 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**.

\* During the war emergency the University, with the exception of the College of Agriculture, will operate on an accelerated schedule so that most four-year curricula may be completed in three calendar years, and the seven-year combination Medical curriculum may be completed in five calendar years.

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, Music Education, and Industrial Education**, leading to the degree of **Bachelor of Education** in the first two cases, and the degree of **Bachelor of Science in Education** in the last.

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

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

#### KEY TO ABBREVIATIONS

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

H. E., Home Economics.  
Ind. Ed., Industrial Education.  
L. A., Liberal Arts.  
M. E., Mechanical Engineering.  
M. T., Medical Technology.  
Med., Medical.  
Mus. Ed., Music Education.  
N., Nursing.  
P. I., Plant Industry.  
Sec., Secretarial Option.  
S. Ed., Secondary Education.  
Sp., Special.  
Tch. Ag., Teaching of Agriculture.

## 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 120 semester hours of credit. For those required to take Military Science and Physical Education the total of semester hours shall be increased by the number of hours required in those subjects.

#### REQUIRED OF ALL STUDENTS:

1. English. English 1 the first year, with separate sections and special work for selected students, and the second year one of the following: English 2, English 7, English 15, English 16.
2. Foreign Language. One course of at least intermediate grade, that is French 3, German 2, Greek 1, Latin B, or Spanish 2, 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 thirty-six 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 the junior year and in the senior year.

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

1. \*Language and Literature, or Music: History 1, 2, or 3 the first year; a second foreign language reaching the intermediate level; a second course in the Social Science division.

2. Social Science: History 1, 2, or 3, 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: Mathematics 1 and 2† the first two years; Chemistry 1† the first year and Physics 1† 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 courses will be completed: English (two years), Foreign Language, College Mathematics, Inorganic Chemistry, Organic Chemistry, General Physics,

\* It is strongly recommended by the respective departments that students who wish to choose modern foreign language as their field of concentration complete Latin B 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 Chemistry 1. Those concentrating in Botany or Zoology may omit Mathematics 2 and may postpone Chemistry and Physics each one year, beginning their special subject the first year.

and Biology. The requirements for admission to colleges of Dentistry, Nursing, and Medical Technology 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 these three fields.

A typical four-year course of study for a student wishing the degree of Bachelor of Arts and also wishing to complete the requirements for admission to medical college follows:

THE FRESHMAN YEAR		1ST SEMESTER	2ND SEMESTER	THE SOPHOMORE YEAR		1ST SEMESTER	2ND SEMESTER
English Composition (Eng. 1)		3	3	Foreign Language		3	3
Inorganic Chem. (Chem. 1)		4	5	English		3	3
Freshman Math. (Math. 1)		3	3	Qual. Anal. (Chem. 2)		4	...
French or German		3	3	Quant. Anal. (Chem. 3)		...	4
Physical Education 1		1	1	Botany 1, Zoology 1		4	4
Military Science 1 (Men)		2	2	Physical Education 2		1	1
		—	—	Military Science 2 (Men)		2	2
		16	17			—	—
						17	17
THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER	THE SENIOR YEAR		1ST SEMESTER	2ND SEMESTER
Organic Chem. (Chem. 9)		4	4	Physical Chem. (Chem. 7)		3	3
Embryology-Microtechnique		4	3	Adv. Organic Chem.		3	3
Gen. Psychology (Psych. 1)		3	3	Political Science		3	3
Gen. Physics (Phys. 1)		5	5	Bacteriology		3	...
		—	—	Physiology		...	3
		16	15	Elem. Economics		3	3
						—	—
						15	15

For those students who find it impossible to complete the four-year undergraduate course, a three-year\* curriculum may be followed which in combination with the first year of an approved medical college will lead to the degree of Bachelor of Science. This curriculum is as follows:

THE FRESHMAN YEAR		1ST SEMESTER	2ND SEMESTER	THE SOPHOMORE YEAR		1ST SEMESTER	2ND SEMESTER
English Composition		3	3	English Literature		3	3
Freshman Mathematics		3	3	French or German		3	3
French or German		3	3	Organic Chemistry		4	4
Inorganic Chemistry		4	5	General Physics		5	5
Gen. Botany & Zoology		4	4	General Psychology		3	3
Physical Education 1		1	1	Physical Education 2		1	1
Military Science 1 (Men)		2	2	Military Science 2 (Men)		2	2
THE JUNIOR YEAR		1ST SEMESTER		2ND SEMESTER			
English (Advanced Course)		3	3				
Embryology & Microtechnique		4	3				
Qual. & Quant. Chem.		4	4				
Electives		8	8				

\* See note page 65.

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 session of twelve 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, with one academic course for two semesters.

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	1ST	2ND	1ST SUMMER SEMESTER	HOURS
	SEMESTER	SEMESTER		
English Composition .....	3	3	Anatomy & Physiology .....	3-4
General Botany & Zoology .....	4	4	Physics of Nursing .....	2-3
History or American Govt. ...	3	3	Nursing Arts .....	3-4
Inorganic Chemistry .....	4	5	Nursing Orientation .....	1
* Elective .....	3	3	History of Nursing .....	1
Physical Education .....	1	1		
Hygiene				
* Mathematics or language recommended.				
SECOND YEAR	1ST	2ND	2ND SUMMER SEMESTER	
	SEMESTER	SEMESTER		
English .....	3	3	Introduction to Medical Science,	
General Psychology .....	3	3	Bacteriology, and Clinical Pa-	
Organic Chemistry .....	3	...	thology .....	3-4
Physiological Chemistry .....	...	3	Pharmacology .....	2
Physiology .....	3	...	Professional Ethics .....	1
Chemistry of Foods, Diet .....	...	3	Advanced Nursing Arts .....	4
Physics or Elective .....	3-5	3-5		

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 or Basic Sciences, Supervision in a Clinical Field, 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, 12 hours; History, 6 hours; Zoology, 8 hours; Psychology, 6 hours; Chemistry, 9 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, Ward Teaching and supervised field experience in teaching Nursing Arts. 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 with supervised field experience.

## 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.

The following are required:

- \* 1. Botany 1, Chemistry 1 and 2/3, Zoology 1 and 7;
2. English 1 and either 2, 7, 15, or 16; one foreign language course of intermediate grade; Mathematics 1; Physics 1; and Botany 7;
3. Additional courses, including at least two courses outside the field of science, to make a total of 90 semester hours, in addition to the required work in Physical Education, Military Science, and Hygiene. Organic Chemistry, Psychology, Business Correspondence, and Filing are highly recommended as electives. It is also desirable that students have some training in Typing either in High School, or during the summer.

\* These meet the subject-matter requirements of the Registry of Medical Technologists, which requires also a total of 60 semester hours of credit, and highly recommends work in Physics, Organic Chemistry, Biochemistry, and Advanced Bacteriology.

4. Twelve months of technical training in a local hospital under the supervision of the College of Medicine.

A suggested outline of courses follows:

First year: English 1, Mathematics 1, Chemistry 1, Language, Botany 1, and Zoology 1 (35 semester hours);

Second year: English 2, Chemistry 2/3, Embryology (Zoology 7), Microtechnique (Botany 7), and Language or elective (28 semester hours);

Third year: Physics 1, and electives (30-36 semester hours).

## THE ECONOMICS CURRICULA

The Department of Economics offers specialized curricula, namely, Business, Secretarial Science, 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 general business career. It gives a sound basic training in the various phases of business activity. Its several options enable students to lay emphasis on important lines of specialization such as retailing, controllership, production, pre-law, selling, finance, personnel, government economics, and advertising.

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 45 semester hours of Economics, out of a total of 120 required for graduation; for the Secretarial Curriculum, 88 hours, out of a total of 160 for graduation; and for the Commercial Teaching Curriculum, 91 hours, out of a total of 160 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 \$17.50 per semester for the use of office machines and equipment.

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

THE FRESHMAN YEAR		1ST	2ND	THE SOPHOMORE YEAR		1ST	2ND
		SEMESTER				SEMESTER	
English Composition (Eng. 1)	3	3		English Literature (Eng. 2)	3	3	
Math. of Finance (Math. 11)	3	3		Econ. Principles (Ec. 1/2)	3	3	
Econ. Geography (Ec. 9/10)	3	3		Accounting (Ec. 11/12)	3	3	
Econ. History (Ec. 6/7)	3	3		† Business Law (Ec. 20)	3	3	
Foreign Language	3	3		† Statistics (Ec. 8)	3	3	
* Filing (Ec. 59)	3	3		American Govt. (P.S. 1)	3	3	
* Business Law (Ec. 20)	3	3		* Gen. Psychology (Psych. 1)	3	3	
Physical Education 1	1	1		* Business Corres. (Ec. 58)	3	3	
Military Science 1 (Men)	2	2		Physical Education 2	1	1	
				Military Science 2 (Men)	2	2	

\* Secretarial and Commercial Teaching only.

† Omitted in Secretarial and Commercial Teaching.

During the Junior and Senior years, students in the Business Curriculum choose combinations of courses suited to their particular interests. A bulletin is available from the Department of Economics which gives in full the courses offered and programs recommended for specialization in the several branches mentioned above. These programs include both specialized courses in Economics and appropriate general or specialized courses in other fields.

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

THE JUNIOR YEAR		1ST	2ND	THE SENIOR YEAR		1ST	2ND
		SEMESTER				SEMESTER	
Money & Banking (Ec. 102)	3	3		Secretarial Science (Ec. 61)	3	3	
Modern Europe (Hist. 12)	3	3		Office Management (Ec. 62)	3	3	
Elem. Shorthand (Ec. 52)	5	5		Advanced Shorthand (Ec. 53)	5	5	
Elem. Typewriting (Ec. 56)	5	5		Adv. Typewriting (Ec. 57)	5	5	
Econ. of Labor (Ec. 111)	3	3		* Advanced English	3	3	
* Statistics (Ec. 8)	3	3		* Electives	6	6	
* Corp. Finance (Ec. 105)	3	3		† Methods & Prac. Teaching			
* Electives	3	3		(Ec. 63/64)	3	3	
† Adv. Acc't'g (Ec. 112/113)	3	3		† Statistics (Ec. 8)	3	3	
† Prin. of Education (Ed. 1)	3	3		† Electives	3	3	
† Adolescent Psych. (Ed. 4)	3	3					

\* Secretarial only.

† Commercial Teaching only.

## THE CHEMISTRY CURRICULUM

The Department of Chemistry offers a specialized and professional course in Chemical Science leading to the degree of Bachelor of Science in Chemistry. The curriculum is designed to give a sound basic training and to prepare the student for service in some branch of the Chemical profession.

The curriculum conforms to the recommendations of the Committee on Professional Training of Chemists of the American Chemical Society. Graduates of the specialized curriculum in Chemistry are engaged in teaching Chemistry, as technical Chemists in industry, and in various capacities in businesses based upon 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			THE SOPHOMORE YEAR		
	1ST	2ND		1ST	2ND
	SEMESTER			SEMESTER	
Inorganic Chem. (Chem. 1).....	5	5	Qual. Chem. (Chem. 2) .....	4	...
English Comp. (Eng. 1) .....	3	3	Quant. Chem. (Chem. 3) .....	...	4
Freshman Math. (Math. 11, 12) .....	5	4	English .....	3	3
Elementary German (Ger. 1) .....	3	3	Calculus (Math. 21, 22) .....	3	3
Physical Education 1 .....	1	1	General Physics (Phys. 1) .....	5	5
Military Science 1 (Men) .....	2	2	Intermediate Ger. (Ger. 2).....	3	3
			Physical Education 2 .....	1	1
			Military Science 2 (Men) .....	2	2
				—	—
				21	21
THE JUNIOR YEAR			THE SENIOR YEAR		
	1ST	2ND		1ST	2ND
	SEMESTER			SEMESTER	
Phys. Ch. (Ch. 104, 105).....	5	5	Adv. Inorganic (Chem. 108) .....	3	3
Organic Chem. (Chem. 9) .....	4	4	Seminar (Chem. 114) .....	...	3
Quant. Anal. (Chem. 4) .....	3	3	Thermodynamics (Chem. 106) .....	3	...
Advanced Physics .....	3	3	Adv. Organic (Chem. 111).....	3	3
Elective* (No Lab.) .....	3	3	Adv. Org. Lab. (Chem. 112) .....	6	...
	—	—	Res. (Thesis) (Chem. 115).....	...	6
	18	18	Elective* .....	3	3
				—	—
				18	18

\* Electives: Economics, Education, English, French, German, History, Mathematics, Mineralogy, Philosophy, Political Science, Psychology.



## 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		1ST	2ND	THE SOPHOMORE YEAR		1ST	2ND
		SEMESTER				SEMESTER	
English Comp. (Eng. 1) .....		3	3	English 2, 7, 15, or 16 .....		3	3
Foreign Language .....		3	3	Foreign Language .....		3	3
History or Political Science.....		3	3	Gen. Psychology (Psych. 1)...		3	3
Laboratory Science .....		4	4	Approved Electives .....		6	6
Approved Elective .....		3	3	Physical Education 2 .....		1	1
Physical Education 1 .....		1	1	Military Science 2 (Men) ....		2	2
Military Science 1 (Men) .....		2	2				
THE JUNIOR YEAR		1ST	2ND	THE SENIOR YEAR		1ST	2ND
		SEMESTER				SEMESTER	
Pr. & Phil. of Ed. (Ed. 1, 5) .....		3	3	Meth. and Stud. Teach. (Ed. 7, 8) .....		3	3
His. of Ed. (Ed. 2) or Educational Psych. (Ed. 3) .....		3	...	English Elective .....		2-3	2-3
H. S. Adm. (Ed. 3) or Adolescent Psych. (Ed. 4) .....		...	3	Approved Electives .....		9	9
English Elective .....		2-3	2-3				
Approved Electives .....		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 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 fully 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, the completion of at least 72 semester hours of course work, chosen under the guidance of the Chairman of the Department of Education, will be required.

#### 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

THE FRESHMAN YEAR		1ST	2ND	THE SOPHOMORE YEAR		1ST	2ND
		SEMESTER				SEMESTER	
Eng. Comp. & Rhet. (Eng. 1)	3	3		Eng. Literature (Eng. 2)	3	3	
Intro. to Ed. (Ed. 321)	3	3		American History (Hist. 14)	3	3	
Economic Geography (Ec. 9)	3	3		School Music 1 (Ed. 335)	3	3	
Penmanship (Ed. 330)	1	1		Gen. Psychology (Psych. 1)	3	3	
Hygiene (Ed. 328)	1			Science Elective	4	4	
*Art Education 1 (Ed. 337)	2	2		*Art Education 2 (Ed. 338) or	(2)	(2)	
Electives	6	6		*Mental Hygiene (Ed. 340)	(3)	(3)	
Physical Education (Ed. 334)	1	1		Military Science 2 (Men)	2	2	
Military Science 1 (Men)	2	2		Physical Education (Ed. 334)	1	1	
THE JUNIOR YEAR		1ST	2ND	THE SENIOR YEAR		1ST	2ND
		SEMESTER				SEMESTER	
Teaching Arith. (Ed. 325)	...	2		Curric. & Stud. Tchg.			
Reading (Ed. 322)	2			(Ed. 332)	6	6	
School Music 2 (Ed. 336)	3	3		Teaching Art (Ed. 341)	2		
Teaching English (Ed. 324)	3	3		Advanced Eng. Elective	3	3	
Teaching Social Studies (Ed.				Phys. Ed. Methods (Ed. 334)	1	1	
331)	2	2		Prin. of Ed. (Ed. 1) or			
Observation and Conference	2	2		Educational Psych. (Ed. 3)	3		
English Elective	3	3		Philosophy of Ed. (Ed. 5)		3	
Health Education (Ed. 334)	1	1		Electives	2-3	2-3	
Electives	3	3					

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

## CURRICULUM FOR THE PREPARATION OF TEACHERS IN THE UPPER GRADES AND JUNIOR HIGH SCHOOL

Students who wish to prepare for teaching in the upper grades and Junior High School may do so through the completion of courses chosen under the guidance of the Department of Education from the subjects available for students in the curricula in Elementary and Secondary Education.

A special curriculum designed to prepare teachers for these grades is in process of completion and will be in operation during the college year 1945-1946.

\* May be postponed to a later year.

## 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 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 schools 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 Elementary Education curriculum or for some curriculum offered in 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		1ST SEMESTER	2ND SEMESTER	THE SOPHOMORE YEAR		1ST SEMESTER	2ND SEMESTER
Musical Literature (Mus. 1).....		3	3	Elem. Harmony (Mus. 3) .....		3	3
Elem. Sight-singing (Mus. 8) .....		2	2	Adv. Sight-singing (Mus. 9).....		2	2
English Comp. (Eng. 1) .....		3	3	English Lit. (Eng. 2) .....		3	3
Elem. German (Ger. 1) .....		3	3	Intermed. German (Ger. 2).....		3	3
French or History .....		3	3	Gen. Psychology (Psych. 1).....		3	3
Applied Music (two courses) 2-3		2-3	2-3	Applied Music (two courses) 2-3		2-3	2-3
Physical Education 1 .....		1	1	Physical Education 2 .....		1	1
Military Science 1 (Men) .....		2	2	Military Science 2 (Men) .....		2	2
THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER	THE SENIOR YEAR		1ST SEMESTER	2ND SEMESTER
Adv. Harmony (Mus. 4) .....		3	3	Orch. & Cond. (Music 11).....		3	3
Meth. & Prac. Tch. (Ed. 345) .....		3	3	Sec. Meth. & Prac. Teaching			
Aesthetics (Psych. 7) or Eng- lish or Language .....		3	3	(Mus. 10) .....		3	3
Prin. & Phil. of Ed. (Ed. 1, 5) .....		3	3	English or Italian .....		3	3
History of Art 1, 3 .....		3	3	Education or Elective .....		3	3
Applied Music (two courses) 2-3		2-3	2-3	App. Mus. Meth. (Mus. 12).....		1	1
				App. Music (two courses).....		2-3	2-3

## THE INDUSTRIAL EDUCATION CURRICULUM

The curriculum in Industrial Education is offered by the University of Vermont and State Agricultural College in cooperation with the Vermont State Board of Education. It is recommended to students who desire to teach and supervise Trade and Industrial courses in secondary schools or in industrial concerns.

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

The program provides professional courses to meet the certification

requirements for teachers of both Vocational Shop and related subjects (mathematics, science, and drawing related to the trades) and for teachers of Industrial Arts (shop work offered in the public school as a part of general education rather than specific training for a trade or occupation as a part of vocational education), and courses for the improvement of teachers in service.

While trade experience of at least two years on a journeyman basis is required for those who expect to teach trade shop work, only one year of industrial experience is required for teachers of related subjects and for teachers of industrial arts.

Students may enroll in the Industrial Education curriculum as freshmen or in advanced standing by transfer from the College of Engineering not later than the beginning of the Junior year. Substitutions for courses regularly included in the curriculum must be approved by the Department.

The freshman and sophomore years are the same as in the Mechanical Engineering Curriculum, for which see page 127. The courses for the last two years are as follows:

THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER	THE SENIOR YEAR		1ST SEMESTER	2ND SEMESTER
Ind. Metallurgy (M. E. 39) ...	3	...		Ind. Management (M.E. 43)...	3	...	
Shop Practice (M.E. 33).....	2	2		Factory Planning (M.E. 44) ...	3	3	
D.C. Circuits & Mach. (E.E. 36) .....	4	...		H. S. Admin. (Ed. 6).....	3	3	
A.C. Circuits & Mach. (E.E. 37) .....	2	4		Trade Teaching (I. Ed. 2, 3) 1	1	1	
Applied Art (Ed. 338) .....	2	...		Trade Analysis (I. Ed. 4, 5) 1	1	1	
Prin. Voc. Ed. (I. Ed. 1).....	1	...		Instr. Matls. (I. Ed. 6, 7).....	1	1	
Adolescent Psych. (Ed. 4) .....	3	3		Tch. Indus. Arts (I. Ed. 8) ...	2	2	
Prin. of Ed. (Ed. 1) .....	3	...		Observ. & Tchg. (I. Ed. 9).....	3	3	
Elem. Economics (Ec. 1).....	3	3		Shop Practice (M. E. 33) .....	4	2	
Kinematics (M.E. 32) .....	3	3		Mechanics of Matls. (M.M. 6) 3	...	...	
Elective .....	3	3		Wood Technology (For 8).....	3	3	

## COURSES OF INSTRUCTION

### ART

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

#### HISTORY OF ART

1. GREEK ART. A general survey of the history of art in Greek lands through the Greco-Roman period, with emphasis on the development



of sculpture and architecture, and some attention to the minor arts, especially vase-painting. The purpose is to help the student understand the meaning of art and appreciate some of the masterpieces. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN. Normally followed by History of Art 3. *Professor Kidder*

2. MODERN ART. To familiarize students with contemporary works of art and to give them standards whereby they may judge the quality of any work of art. *Two hours.* ELECTIVE EXCEPT TO FRESHMEN.

*Mrs. Mills*

3. EUROPEAN PAINTING. A general survey of painting in Europe from 1400 to 1825. Attention is concentrated on the works of important painters and on 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. *Three hours, second semester.* ELECTIVE EXCEPT TO FRESHMEN. See History of Art 1. *Professor Prindle*

#### APPLIED ART

1. APPLIED ART. Problems in functional design using the block print, stencil, and other techniques to develop good taste and creative ability. Studio Fee \$1.00 per semester. *Two hours credit, if preceded or accompanied by a year course in History of Art.* ELECTIVE EXCEPT TO FRESHMEN.
2. APPLIED ART. Further exploration in the field of design, involving more complex problems. Studio Fee \$1.00 per semester. *Two hours credit, if preceded or accompanied by a year course in History of Art.* ELECTIVE TO JUNIORS AND SENIORS. *Mrs. Mills*

#### DRAWING AND PAINTING

1. DRAWING AND PAINTING. Composition and painting techniques, with emphasis on a clearer understanding of modern schools of painting and on individual development. Studio fee \$1.00 per semester hour. *Two or three hours.* ELECTIVE\*. *Mr. Colburn*

#### ART EDUCATION

For courses in Art Education, see Index.

\* 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.

**\*BOTANY**

*Professors Marvin, Dole, †Adams, Gershoy, and Taylor; Mr. Larson.*

1. **PRE-MEDICAL.** Fundamental principles of biology illustrated by a study of the morphology and physiology of plant cells and tissues. Lectures, recitations, laboratory. Fee \$2.50. *Four hours, one semester, alternating with Zoology 1.* **REQUIRED (PRE-MED.) FRESHMEN.**  
*Professors Taylor, Dole, and Marvin*
2. **ELEMENTARY BOTANY.** Living organisms as illustrated by the origin, relationships, growth, reproduction, and physiology of the plant kingdom. Laboratory fee \$2.50 per semester. *Four hours.* **ELECTIVE.**  
*Professor Dole*
3. **GENERAL BOTANY.** A study of the morphology, anatomy, physiology and classification of higher plants. Lectures, recitations, laboratory. Fee \$2.50 per semester. *Three hours.* **REQUIRED (AG.) FRESHMEN.**
4. **PLANT PHYSIOLOGY.** An experimental study of the nutrition of higher plants, problems of irritability and response. Field, greenhouse and laboratory with lectures and readings. Laboratory Fee \$2.50 per semester. *Four hours.* **ELECTIVE (ARTS AND AG.).** **PREREQUISITE BOTANY 2 OR 3.**  
*Professor Marvin*
5. **AGROSTOLOGY.** Omitted for the duration of the war.
6. **PLANT MORPHOLOGY.** Omitted for the duration of the war.
7. **MICROTECHNIQUE.** Preparation of biological materials for microscope study, including smear and microtome sectioning. The microtome and oil immersion lens microscope and accessories used in drawing and photomicrography. Lectures, laboratory. Fee \$4.00. *Three hours, first semester.* **ELECTIVE (ARTS AND AG.).** **PREREQUISITES: ELEMENTARY COURSES IN BOTANY, ZOOLOGY, AND CHEMISTRY.**  
*Professor Gershoy*
8. **CYTOLOGY.** The protoplast of living organisms, emphasizing the protoplasmic activities of the cells of the higher groups. The somatic and meiotic divisions and the relation of chromosome behavior to hereditary phenomena. Lectures, laboratory. Fee \$2.50. *Four hours, one semester, alternating with Zoology 7.* **PREREQUISITES: ELEMENTARY COURSES IN BOTANY, ZOOLOGY, AND CHEMISTRY.**  
*Professor Gershoy*

\* Although this is a department of the College of Agriculture, the courses are listed here for convenience.

† Absent on leave; Military Service.

9. ECOLOGY. A study of the physiological factors of habitats and their effect in plant structure and distribution. Field work and lectures. *Three hours, second semester.* ELECTIVE (ARTS AND AG.). PREREQUISITE: BOTANY 2 OR 3. *Professor Dole*
10. PLANT PATHOLOGY. Omitted for the duration of the war.
11. GENERAL MICROBIOLOGY. Omitted for the duration of the war.
12. GENERAL BACTERIOLOGY. The principles and technique of growing and studying bacteria and other micro-organisms. Recommended especially to General Science and Pre-Medical students. Lectures, laboratory. Fee \$5.00. *Three hours, first semester.* ELECTIVE (ARTS). PREREQUISITE: BOTANY 2.
13. HOUSEHOLD MICROBIOLOGY. A course dealing with bacteria, yeast, and molds and their relation to home sanitation and to food preservation. Laboratory Fee \$5.00. *Three hours, second semester.* REQUIRED (H. E.) JUNIORS. *Professor Taylor*
14. EDUCATIONAL BIOLOGY. See Education 346.
15. GENETICS. The basic principles of modern plant and animal breeding. The elementary concepts of variation, inheritance, and cytogenetics. Lectures, laboratory. Fee \$5.00. *Three hours, first semester.* ELECTIVE (ARTS AND AG.). PREREQUISITES: ELEMENTARY COURSES IN BOTANY AND ZOOLOGY. *Professor Gersbooy*
16. PLANT ANATOMY AND HISTOLOGY. Omitted for the duration of the war.
17. ECONOMIC BOTANY. The distribution and special functions of economic plants with emphasis on the biology and processing of drug, fiber, food, and other economic plants. Lectures, laboratory. Fee \$2.50. *Three hours, first semester.* ELECTIVE (ARTS AND AGR.) PREREQUISITES: BOTANY 1, 2, OR 3. *Professor Taylor*
115. ADVANCED SYSTEMATIC BOTANY. *Three hours.* ELECTIVE BY PERMISSION. *Professor Dole*
118. DIRECTED STUDY. Hours and credits to be arranged. Laboratory fee \$5.00 per semester. ELECTIVE BY PERMISSION TO JUNIORS AND SENIORS. *Botany Staff*
119. SEMINAR. A review of current and recent publications pertaining to botanical study, with emphasis on a digest of papers which present a critique or a significant change in point of view. *One hour.* ELECTIVE TO JUNIORS AND SENIORS (ARTS AND AG.). *Botany Staff*

**\*CHEMISTRY**

Professors †*Braun, Willmarth, †Crooks, Bloom*; Miss *Brown*, Mr. *Lucarini*, and Dr. *Quinlan*.

1. GENERAL CHEMISTRY. Lectures with demonstrations, recitations, and laboratory, including general experiments and elementary qualitative analysis. Fee \$5.00 per semester. *Four hours, first semester, and five hours, second semester.* REQUIRED (ENG., G. S., AGR.) FRESHMEN. ELECTIVE TO OTHERS. *Five hours each semester.* REQUIRED (CH.) FRESHMEN.  
*Professor Bloom; Miss Brown, Mr. Lucarini*
2. SEMIMICRO QUALITATIVE ANALYSIS. Lectures, classroom and laboratory work. Fee \$5.00. *Four hours, first semester.* REQUIRED (CH.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1.
3. ELEMENTARY QUANTITATIVE ANALYSIS. An introductory course including laboratory and classroom work. Laboratory Fee \$5.00. *Four hours, second semester.* REQUIRED (CH.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1 AND 2.
4. ADVANCED QUANTITATIVE ANALYSIS. A course comprising lectures and laboratory instruction with class meetings for discussion of methods. Laboratory Fee \$5.00 per semester. *Three hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1, 2, AND 3.  
*Mr. Lucarini*
9. ELEMENTARY ORGANIC CHEMISTRY. Lectures, discussions, and laboratory work, suitable for pre-medical students and those majoring in the biological sciences. Fee \$5.00 per semester. *Four hours.* REQUIRED (CH.) JUNIORS, ELECTIVE TO OTHERS. PREREQUISITE: CHEMISTRY 1.  
*Dr. Quinlan*
- ‡15. AGRICULTURAL CHEMISTRY. A study of fundamentals of organic chemistry in special relation to agriculture. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (AG.) JUNIORS.
19. OUTLINES OF ORGANIC CHEMISTRY. Introduction to the principal classes of organic compounds with special emphasis on the composi-

\* 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.

‡ Not offered 1944-45.

tion of foods and their related groups. Lectures, recitations, laboratory. Laboratory Fee \$5.00. *Five hours, second semester.* REQUIRED (H.E.) FRESHMEN.

20. CHEMISTRY OF FOODS. A general discussion of foodstuffs with chemical analyses of milk, edible fats and oils, carbohydrate foods, proteins, and tests for preservations and adulterants. Lectures, recitations, laboratory. Laboratory Fee \$7.50. *Three hours, first semester.* REQUIRED (NUTR.) SOPHOMORES.
22. GENERAL INORGANIC CHEMISTRY. Lectures, recitations, and laboratory, for students enrolled in the Home Economics Curriculum. Laboratory Fee \$5.00. *Five hours, first semester.* REQUIRED (H. E.) FRESHMEN. NOT OPEN TO OTHERS.
- \*23. GENERAL INORGANIC CHEMISTRY. Lectures, recitations, and laboratory for students in the Agricultural Curriculum. Laboratory Fee \$5.00 *Three hours.* REQUIRED (AG.) SOPHOMORES.
24. BIOCHEMISTRY. The elements of biochemistry including the chemistry of digestion and a study of the bile and other digestive fluids. Qualitative and quantitative analyses of blood and urine and determination of hydrogen ion concentration. Lectures, recitations, laboratory. Laboratory Fee \$7.50. *Three hours, second semester.* REQUIRED (NUTR.) SOPHOMORES. *Professor Willmarth*
104. PHYSICAL CHEMISTRY. This course consists of lectures, recitations and problem work. *Three hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1, PHYSICS 1, AND MATHEMATICS 21, 22. *Professor Bloom*
105. PHYSICAL CHEMISTRY. This laboratory course is recommended to students who enroll in Chemistry 104. Laboratory Fee \$5.00 per semester. *Two hours.* REQUIRED (CH.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 1, PHYSICS 1, AND MATHEMATICS 21, 22. *Professor Bloom; Mr. Lucarini*
106. ADVANCED PHYSICAL CHEMISTRY. (Omitted for the duration of the war.)
- \*108. ADVANCED INORGANIC CHEMISTRY. Recent developments regarding the structure and reactions of inorganic compounds with special emphasis on coordination compounds, complex acids, and hydrides. The second semester continues with a treatment of free radicals, oxides, non-metallic elements, metals, metallic carbonyls, and non-aqueous solvents. *Three hours.* REQUIRED (CH.) SENIORS. ELECTIVE TO OTHERS. PREREQUISITES: CHEMISTRY 104, 105.

- \*111 ADVANCED ORGANIC CHEMISTRY. A lecture course with discussions of the modern theories of organic chemistry and their applications. Current journals and books on organic chemistry are used as works of reference. *Three hours*. PREREQUISITE: CHEMISTRY 9 AND 104. REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION.
- \*112-A. ADVANCED ORGANIC CHEMISTRY LABORATORY. The preparation and general study of organic compounds. The preparations are chosen to illustrate the major reactions used in organic synthesis. Reference to the original literature is required. Laboratory Fee \$5.00. *Three hours, first semester*. REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION. PREREQUISITE: CHEMISTRY 9.
- \*112-B. QUALITATIVE ORGANIC ANALYSIS. Lectures and laboratory work involving the characterization and identification of organic compounds, including compounds in mixtures, with emphasis on solubility relationships, class reactions, and the preparation of derivatives. Laboratory Fee \$5.00. *Three hours, first semester*. REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION. PREREQUISITE: CHEMISTRY 9.
114. CHEMISTRY SEMINAR. (Omitted for the duration of the war.)
- \*115. THESIS RESEARCH. The student may elect the field for his thesis work from inorganic, analytical, physical, or organic chemistry. He will work under the direction and advice of a staff member, submit his findings in written form, suitably bound, to the Department of Chemistry to be filed. Laboratory Fee \$10.00. *Six hours, second semester*. REQUIRED (CH.) SENIORS. ELECTIVE BY PERMISSION.

## CLASSICAL LANGUAGES

*Professors Prindle, Kidder, and Pooley*

### GREEK

- A. ELEMENTARY GREEK. This course is intended for those who desire a slight acquaintance with the language as well as for those who wish to continue the study of Greek. It serves as a preparation for Greek 1. *Four hours*. *Professor Pooley*
1. PLATO AND HOMER. The works usually read are Plato's *Apology* and selections from other dialogues, as well as selections from the

\* Not offered 1944-45.

*Iliad* and *Odyssey* of Homer. *Three hours.* ELECTIVE. PREREQUISITE: GREEK A OR THE EQUIVALENT. *Professor Kidder*

2. GREEK DRAMA. The course includes the reading of three plays of Sophocles, Euripides, and Aristophanes, and lectures on the Greek theatre and on the origin, evolution, and history of Attic tragedy and comedy. *Three hours.* ELECTIVE. PREREQUISITE: GREEK 1.
3. GREEK LITERATURE IN TRANSLATION. See Comparative Literature 1.

## LATIN

- A. Elementary Latin. The elements of the language, for students presenting less than two years of entrance Latin. *Three hours, if Latin B is also completed.* ELECTIVE.
- B. Intermediate Latin. Further study of vocabulary, forms, and syntax, and readings from such authors as Caesar, Cicero, Ovid, and Virgil. *Three hours.* ELECTIVE. PREREQUISITE: AT LEAST TWO YEARS OF HIGH-SCHOOL LATIN OR LATIN A.
1. LATIN PROSE AND POETRY. The works usually read are: Selections from Livy or Cicero; Virgil, *Eclogues*; Plautus or Terence, one play. *Three hours.* ELECTIVE. PREREQUISITE: FOUR YEARS OF LATIN FOR ENTRANCE OR LATIN B.
2. HORACE, CATULLUS, AND PLINY. The works usually read are: Horace, *Odes* and *Epodes*; selections from the poems of Catullus and the letters of Pliny. *Three hours.* ELECTIVE. PREREQUISITE: LATIN 1. *Professor Prindle*
11. CLASSICAL MYTHOLOGY. See Comparative Literature 3.
- \*14. THE TEACHING OF LATIN. 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. Lectures, discussions, outside readings, and papers. *Three hours, second semester.* REQUIRED FOR RECOMMENDATION TO TEACH LATIN. PREREQUISITE: LATIN 2. *Professor Kidder*
16. THE LATIN AND GREEK ELEMENTS IN THE ENGLISH VOCABULARY. Among the topics treated are dictionaries and their use, the Indo-European family of languages, a sketch of the history of the English language, word formation, the ways in which Latin and Greek words have come into English, and the respective places of the Classical and Anglo-Saxon elements in the English vocabulary.

\* Latin 14, a course in special methods required in some states, may be counted as a half-course in Education if taken in conjunction with Education 1, 5, 7, and 8.

*Three hours.* ELECTIVE EXCEPT TO FRESHMEN. SOME KNOWLEDGE OF LATIN IS REQUIRED. *Professor Prindle*

17. LATIN LITERATURE IN TRANSLATION. See Comparative Literature 2.
104. TACITUS. A reading of selections and a study of Tacitus as an historian and as a literary artist. *Three hours, second semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Not offered 1945-46.)
105. CICERO. 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. *Three hours, second semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered 1946-47.) *Professor Pooley*
106. VIRGIL. The whole of the *Aeneid* is read in the original or in translation. The poem is considered with reference to its structure, its literary qualities, and its position in the literature of Rome and of the world. *Three hours.* ELECTIVE. PREREQUISITE: LATIN 2. *Professor Prindle*
107. ROMAN ELEGY. Reading of selections from Tibullus, Ovid, and Propertius and consideration of the development of the elegy. *Three hours, second semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Not offered 1945-46.) *Professor Kidder*
109. PROSE COMPOSITION. Advanced course. *Three hours, first semester.* REQUIRED OF ALL STUDENTS WHO WISH TO BE RECOMMENDED TO TEACH LATIN. ELECTIVE TO OTHERS. PREREQUISITE: LATIN 2.
112. OVID. Selections from the *Metamorphoses* are studied in detail. Rapid reading from other works of Ovid. *Three hours, first semester.* ELECTIVE. PREREQUISITE: LATIN 2. (Offered 1946-47.) *Professor Prindle*

## COMPARATIVE LITERATURE

1. GREEK LITERATURE IN TRANSLATION. 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. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. No knowledge of Greek required. *Professor Kidder*
2. LATIN LITERATURE IN TRANSLATION. 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 to English literature. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. No knowledge of Latin required.

3. CLASSICAL MYTHOLOGY. The more important myths and their influence on English literature and on art. Lectures, assigned readings, short papers, and recitations. *Two hours.* ELECTIVE. PREREQUISITE: SOPHOMORE STANDING AND SOME CLASSICAL BACKGROUND. (Offered 1946-47.)  
*Professor Prindle*
4. GERMAN LITERATURE IN TRANSLATION. Lectures on the development of German literature from the earliest times; reading and discussion of representative works, mainly from the Classic Period and the nineteenth and twentieth centuries. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. No knowledge of German required.  
*Professor Carpenter*
5. SCANDINAVIAN LITERATURE IN TRANSLATION. (Omitted for the duration of the war.)

## \*ECONOMICS

*Professors Hand, Briggs, Woodard, Nulty; Mrs. Maybury*

Students in the Liberal Arts Curriculum who desire to concentrate in the field of Economics are required to take courses in Economics totalling at least twenty-four semester hours. The courses to be taken will be determined in consultation with the Economics faculty advisor on the basis of the student's individual needs and plans.

1. ECONOMIC PRINCIPLES I. Production, price determination, and distribution of income theories are emphasized. Students who desire a general survey of the field of Economics should take Economics 1 and 2, especially if they cannot take the courses in the main fields of public finance, labor, corporation finance, and money and banking. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN.  
*Professors Hand and Woodard*
2. ECONOMICS PRINCIPLES II. General theories regarding labor problems, money and banking, international trade, and public finance are emphasized. *Three hours, second semester.* ELECTIVE EXCEPT TO FRESHMEN.  
*Professors Hand and Woodard*

\* Additional courses in Economics will be offered beginning with the school year 1946-47. Further information may be secured from the department.

3. PUBLIC FINANCE AND TAXATION. An introduction to the principles and problems of government spending, borrowing, and taxing. Special attention to particular methods and problems as determined by a nation at war. *Three hours, second semester.* PREREQUISITE: EC. 1. *Professor Hand*
4. MARKETING. Economic principles as applied to exchange and distribution of products. War controls applied by government. *Three hours, first semester.* PREREQUISITE: EC. 1 *Professor Briggs*
6. ECONOMIC HISTORY OF ENGLAND. An outline of the development of English agriculture, commerce, industry, and finance. *Three hours, first semester.* ELECTIVE. *Professor Woodard*
7. ECONOMIC HISTORY OF THE UNITED STATES. An outline of the development of agriculture, manufactures, transportation, commerce, and finance, with special emphasis on the period of national development. *Three hours, second semester.* ELECTIVE. *Professor Woodard*
8. STATISTICS. An introductory course in the basic methods of statistical computation and the principles of statistical interpretation. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN. *Professor Briggs*
9. ECONOMIC GEOGRAPHY I. Geography as a basis for economic development; importance of materials, distribution, and transportation to national economies in war and peace. *Three hours, first semester.* ELECTIVE.
10. ECONOMIC GEOGRAPHY II. Continuation of Economics 9. *Three hours, second semester.* ELECTIVE. *Professor Woodard*
11. ACCOUNTING I. An elementary course emphasizing the principles of accounting, with such practical work as is necessary to illustrate them. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN.
12. ACCOUNTING II. Continuation of Economics 11. *Three hours, second semester.* PREREQUISITE: EC. 11. *Professor Briggs*
13. PRODUCTION I. Economic principles and problems involved in industrial production. *Three hours, first semester.* PREREQUISITE: EC. 1. *Professor Hand*
20. BUSINESS LAW. The general principles of business law as shown in cases arising out of typical business relations. *Three hours, second semester.* ELECTIVE EXCEPT TO FRESHMEN. *Professor Briggs*
102. MONEY AND BANKING. An analysis of the various types of currency and the application of banking principles to foreign and

domestic business. *Three hours, second semester.* PREREQUISITE: EC. 1. Professor Hand

105. CORPORATION FINANCE. A comparison of the various types of business enterprise and elaboration of the principles of financing industry. *Three hours, second semester,* PREREQUISITES: EC. 1, 11. Professor Briggs
111. ECONOMICS OF LABOR. The principles involved in the employer-employee relation, including attitudes, policies, and forms of organization; economics of wages, hours, unemployment, collective bargaining, and other major problems. *Three hours, first semester.* PREREQUISITE: EC. 1. Professor Hand
112. ADVANCED ACCOUNTING I. The principles and practice of advanced accounting. *Three hours, first semester.* PREREQUISITE: EC. 12.
113. ADVANCED ACCOUNTING II. Continuation of Economics 113. *Three hours, second semester.* PREREQUISITE: EC. 112. Professor Briggs

### ECONOMICS (*Secretarial*)

Professor Nulty and Mrs. Maybury

52. ELEMENTARY SHORTHAND. Instruction in the fundamental principles of Gregg Shorthand. Dictation of business letters. *Five hours.* REQUIRED (SEC. AND C. T.) JUNIORS. NOT OPEN TO OTHERS.
53. ADVANCED SHORTHAND. Dictation covering a broad business vocabulary and a variety of literary and technical subject-matter. Emphasis on speed in taking shorthand and in transcribing. *Five hours.* REQUIRED (SEC. AND C. T.) SENIORS. NOT OPEN TO OTHERS.
56. ELEMENTARY TYPEWRITING. Instruction in the care of the typewriter; correct technique; mastery of the keyboard; practice in variety of forms of material. *Five hours.* REQUIRED (SEC. AND C. T.) JUNIORS. NOT OPEN TO OTHERS. Professor Nulty
57. ADVANCED TYPEWRITING. Development of typing speed. Projects covering the different kinds of commercial typing. Transcription of shorthand notes. *Five hours.* REQUIRED (SEC. AND C. T.) SENIORS. NOT OPEN TO OTHERS.
58. BUSINESS CORRESPONDENCE. Business letters and report writing. *Three hours.* REQUIRED (SEC. AND C. T.) SOPHOMORES. NOT OPEN TO OTHERS. Mrs. Maybury
59. FILING. Methods of indexing and filing; business reference books. Laboratory practice. *Three hours, first semester.* REQUIRED (SEC. AND C. T.) FRESHMEN. NOT OPEN TO OTHERS.

61. SECRETARIAL SCIENCE. The duties performed by the secretary in the business office. Laboratory practice. *Three hours, second semester.* REQUIRED (SEC. AND C. T.) SENIORS. NOT OPEN TO OTHERS.
62. OFFICE MANAGEMENT. The general principles of organization and management applied to the office. Laboratory practice on office machines. *Three hours, first semester.* REQUIRED (SEC. AND C. T.) SENIORS. NOT OPEN TO OTHERS. Mrs. Maybury
63. PRINCIPLES AND METHODS IN BUSINESS EDUCATION. The principles underlying the organization of high-school business curricula, the aims and content of business subjects offered in both the junior and senior high school, and the most effective methods of teaching these subjects. *Three hours, first semester.* REQUIRED (C. T.) SENIORS. NOT OPEN TO OTHERS.
64. OBSERVATION AND PRACTICE TEACHING IN BUSINESS EDUCATION. Directed observation and supervised practice in teaching the business subjects in a junior or senior high school in or near Burlington. General conference once a week; individual conferences with supervisor and training teacher. Study of special methods begun in Ec. 63 continued in this course. Practice Fee \$10.00. *Three hours, second semester.* REQUIRED (C. T.) SENIORS. NOT OPEN TO OTHERS. Professor Nulty

## EDUCATION

Professors Douglass, Holbrook, Nelle Adams, Sullivan, Pearl, Reid, Pappoutsakis, Eleanor Cummings, Rowell, Marvin, Martin, LeBaron; Miss Marston, Mrs. Mills, Mrs. Kirkness, Miss Marion Brown, Miss Madigan, and Mr. Colburn.

### \*SECONDARY EDUCATION

1. PRINCIPLES OF EDUCATION. The aims and principles underlying the educative process; the organization of the public school system

\* Students who are preparing to teach in secondary schools are referred to the following specialized courses which are offered in other departments: Agricultural Education; Economics 63 (Methods in Business Education); English 16 (Advanced Composition); French 108 (Conversation and Composition); German 108 (Composition and Conversation); Home Economics Education; Latin 9, 14 (Composition and Methods); Mathematics 14 (Teaching Mathematics); Music 10 (Music Methods); Spanish 104 (Conversation and Composition). For the curriculum in Secondary Education refer to the Index.

and the principles which determine the selection and treatment of subject-matter in the classroom. *Three hours, first semester.* REQUIRED (S. ED., MUS. ED., TCH. AG., TCH. H. E., C. T.)

*Professors Holbrook, Nelle Adams; Mrs. Kirkness*

2. HISTORY OF EDUCATION. A study of modern education in the light of historical development and the influences of the most significant historical movements upon present educational theory and practice. *Three hours, first semester.* REQUIRED (S. ED.) JUNIORS OR SENIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS. *Professor Douglass*

3. EDUCATIONAL PSYCHOLOGY. The application of psychological principles and findings to the work of the school, including such topics as the influence of heredity and environment; growth and learning; the influence of social environment; the measurement of intelligence and achievement. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.

*Professor Douglass*

4. PSYCHOLOGY OF ADOLESCENCE. The growth of youth from the close of childhood to the threshold of adulthood. Consideration is centered upon boys and girls as they develop physically, emotionally, socially, morally, and intellectually. *Three hours, second semester.* REQUIRED (C. T.) JUNIORS. ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PSYCHOLOGY 1.

*Professor Holbrook*

5. PHILOSOPHY OF EDUCATION. 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. *Three hours, second semester.* REQUIRED (S. ED., EL. ED., MUS. ED.) JUNIORS OR SENIORS. ELECTIVE. PREREQUISITE: ONE COURSE IN EDUCATION.

*Professors Douglass, Holbrook and Adams; Mrs. Kirkness*

6. HIGH SCHOOL ADMINISTRATION. The objectives, administration, and supervision of the secondary school with particular reference to professional relationships; pupil guidance; curricular and extra-curricular activities. *Three hours, second semester.* REQUIRED (S. ED.) SENIORS. ELECTIVE TO OTHER JUNIORS AND SENIORS.

*Professor Douglass*

7. PRINCIPLES AND MODERN PROCEDURES IN SECONDARY EDUCATION. General methods of secondary school instruction and special methods in the student's proposed teaching field; problems of classroom management, pupil diagnosis, and guidance. The special methods phase, continued into Education 8, is developed individually by each

student through directed reading and study through group and individual conferences with the instructor and the training teacher. *Three hours, first semester.* ELECTIVE TO SENIORS. PREREQUISITE: A SATISFACTORY GRADE IN EDUCATION 1 WITH STATEMENT OF INTENTION TO TEACH.

8. STUDENT TEACHING IN SECONDARY SCHOOLS. Each student is assigned to a class in a junior or senior high school in or near Burlington. His teaching is observed and criticized by his training teacher, the course instructor, and the school principal. Practice Fee \$10.00. *Three hours, second semester.* PREREQUISITES: SATISFACTORY CREDIT IN EDUCATION 1 AND EDUCATION 7; THE APPROVAL OF THE ENROLLMENT BY THE DEPARTMENT OF EDUCATION AND THE DEPARTMENT IN WHICH THE STUDENT IS SPECIALIZING.

*Professor Pearl*

9. INTRODUCTORY COURSE IN EDUCATIONAL MEASUREMENTS. An introductory survey of tests of intelligence, performance, achievement, personality, and aptitudes. Laboratory Fee \$2.00. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
10. ADVANCED COURSE IN EDUCATIONAL MEASUREMENTS. The study and administration of individual and group intelligence and achievement tests and their practical application in educational and vocational guidance. Laboratory Fee \$2.00. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Holbrook*
11. SCHOOL ADMINISTRATION. A study of State, county, and local school administration and supervision conducted as a research seminar. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS.
13. SCHOOL AND CLASS MANAGEMENT. (Omitted in 1944-45).
14. THE TEACHING OF MODERN LANGUAGES. A general course in methods for those preparing to teach *any* modern foreign language. Textbook: Cole-Tharp, "Modern Foreign Languages and Their Teaching." Collateral reading in textbooks and periodicals in the field, and in the publications of the American and Canadian Committees on Modern Languages. *Three hours, first semester.* ELECTIVE TO SENIORS. *Professor Carpenter*
112. SEMINAR. Problems in present-day education studied by individuals and the group. Methods of investigation and standards for the presentation of material. *Three hours.* ELECTIVE TO GRADUATE STUDENTS IN EDUCATION.

*Professor Douglass and the Departmental Professors*

## \*ELEMENTARY EDUCATION

321. INTRODUCTION TO EDUCATION. The elements of psychology as applied to the learning process and child development; a comprehensive preview of the whole program of education, including observations. Observation Fee \$1.00 each semester. *Three hours.* REQUIRED (EL. ED.) FRESHMEN. *Professor Nelle Adams*
322. READING IN THE ELEMENTARY SCHOOL. The principles underlying the teaching of reading including reading readiness, remedial reading, phonetics, and the cultivation of correct study habits; the use of standard tests for purposes of diagnosis and improvement. Observation Fee \$1.00. *Two hours, first semester.* REQUIRED (EL. ED.). *Professor Nelle Adams*
324. PROBLEMS OF TEACHING ENGLISH IN THE ELEMENTARY GRADES. 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 is an integral part of this course. Observation Fee \$1.00 each semester. *Three hours.* REQUIRED (EL. ED.) FRESHMEN OR SOPHOMORES. *Professor Sullivan*
325. THE TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL. Subject matter and modern methods of presentation. A remedial course is offered for those who fail to meet necessary standards. Emphasis is placed on aims and principles of teaching arithmetic. Observation Fee \$1.00. *Two hours, second semester.* REQUIRED (EL. ED.) FRESHMEN, SOPHOMORES OR JUNIORS. *Professor Nelle Adams*
329. ENGLISH AND LITERATURE. (See English 1 and 2.) *Professor Sullivan*
330. PENMANSHIP. This course includes practice under supervision for all who have not attained the required degree of proficiency; the use of scales in evaluating penmanship; instruction in methods of teaching and blackboard writing. *One hour.* REQUIRED (EL. ED.) FRESHMEN. *Miss Madigan*
331. THE TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL. Subject matter, procedures and techniques applicable to the teaching of the social studies, including geography and history and elementary science, and their integration with other subjects of the elementary school. *Two semester hours.* REQUIRED (EL. ED.) JUNIORS. *Professor Reid*

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

332. THE ELEMENTARY SCHOOL CURRICULUM AND STUDENT TEACHING. The curriculum of the elementary school with emphasis upon desirable grade placement, methods of instruction, school organization, and control. Observation, participation, and student teaching in graded and one-room schools are included. Practice Fee \$2.00 per semester. *Six hours.* REQUIRED (EL. ED.) SENIORS.

*Professors Douglass, Nelle Adams, Sullivan, Reid,  
Pappoutsakis, and Mrs. Mills.*

334. PHYSICAL EDUCATION AND HYGIENE. In the Freshman year personal and community health, team and individual sports, and various types of dances; in the Sophomore year, a wide variety of outdoor and schoolroom games and folk dances for the elementary schools, playground organization, and teaching games; in the Junior year, health education; in the Senior year, the teaching of physical education with student teaching. *Two hours.* REQUIRED (EL. ED.) FRESHMEN AND SOPHOMORE WOMEN. *One hour.* REQUIRED (EL. ED.) JUNIOR AND SENIOR WOMEN.

*Professor Eleanor Cummings*

335. SCHOOL MUSIC 1. Ear training, music reading, and writing, elementary theory. Designed to supply the subject matter prerequisite to EL. Ed. 336 (School Music 2). *Three hours.* REQUIRED (EL. ED.)
336. SCHOOL MUSIC 2. A study of the basic principles in elementary school music teaching. *Three hours.* PREREQUISITE: EL. ED. 335 OR MUSIC 8. REQUIRED (EL. ED.).

*Professor Pappoutsakis*

337. ART EDUCATION 1. The development of creative ability and art appreciation through drawing, painting, lettering and crafts. Studio Fee \$1.00 per semester. *Two double periods.* REQUIRED (EL. ED.).

338. ART EDUCATION 2. A study of the principles of color and design as applied in various art projects. Studio Fee \$1.00 per semester. *Two double periods.* ELECTIVE (EL. ED.).

*Mrs. Mills*

339. ELEMENTARY CURRICULUM AND STUDENT TEACHING FOR TWO- AND THREE-YEAR STUDENTS. Includes (1) a study of curriculum content, organization, and procedures in relation to child growth and development; (2) a study of teachers' responsibilities in the school and community; and (3) observation, participation, and student teaching in rural and city schools. Practice Fee \$2.00 per semester. *Six hours.* REQUIRED (EL. ED.).

*Professor Reid*



340. MENTAL HYGIENE, ARTS AND CRAFTS. 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, \$2.00 for the course. *Three hours*. EL. ED. ALTERNATE REQUIREMENT WITH EL. ED. 338.  
*Professor Holbrook and Mrs. Mills.*
341. THE TEACHING OF ART. Principles and processes of present art educational practice will be discussed, demonstrated and observed. *Two hours, first semester*, REQUIRED (EL. ED.) SENIORS. *Mrs. Mills*
345. ELEMENTARY SCHOOL MUSIC METHODS AND STUDENT TEACHING. See Music 345.
346. EDUCATIONAL BIOLOGY. The anatomy, physiology, and development of plants and animals; native flora and fauna studied on field trips; the preparation and presentation of biological material. Laboratory Fee \$4.00 per semester. *Four hours*. ELECTIVE (EL. ED. ONLY).  
*Professors Marvin and Rowell*
347. OBSERVATION AND CONFERENCE. This course will provide an opportunity to study teaching practice objectively in the Elihu B. Taft Demonstration School. A conference hour will follow each weekly period of observation. Readings will be assigned to afford a better understanding of problems which arise. The course is designed to assist in the orientation of students and in preparation for responsible student teaching. Observation fee, \$1.00 each semester. *Two hours*. REQUIRED (EL. ED.) JUNIORS. *Professor Reid*

#### \*INDUSTRIAL EDUCATION

1. PRINCIPLES OF VOCATIONAL EDUCATION. A study of the history, principles and problems, including early apprenticeship system, state and federal legislation and aid, and modern trends in industrial training. *One hour, first semester*. REQUIRED (IND. ED.) SENIORS.
2. METHODS OF TRADE TEACHING. This course presents the relation of Vocational Education and Industrial Arts and methods of teaching industrial shop and related subjects. *One hour, first semester*. REQUIRED (IND. ED.) SENIORS.
3. METHODS OF TRADE TEACHING (ADVANCED). A continuation of the work of Industrial Education 2, emphasizing technique and offering practice in the application of methods of teaching industrial subjects. *One hour, second semester*. REQUIRED (IND. ED.) SENIORS.

\* For the curriculum in Industrial Education, see Index.

4. TRADE ANALYSIS. An analytical study of trade practice as a basis of course planning. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
5. TRADE ANALYSIS (ADVANCED). A continuation of the course in Industrial Education 4 presenting the organization of trade content, discovered by analysis, into useful outlines of instruction. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
6. PREPARATION OF INSTRUCTIONAL MATERIALS. A survey of organized instructional material and a study of the principles and methods involved. *One hour, first semester.* REQUIRED (IND. ED.) SENIORS.
7. PREPARATION OF INSTRUCTIONAL MATERIALS (ADVANCED). A continuation of Industrial Education 6 with emphasis on practice in preparing materials. *One hour, second semester.* REQUIRED (IND. ED.) SENIORS.
8. TEACHING INDUSTRIAL ARTS. A study of the organization and management of the general shop or laboratory of industries. *Four hours.* REQUIRED (IND. ED.) SENIORS.
9. OBSERVATION AND DIRECTED TEACHING. This course includes observation and conference discussions, followed by supervised practice in teaching of trade and industrial classes in the public schools of Burlington and vicinity. *Three hours, second semester.* REQUIRED (IND. ED.) SENIORS.
10. SPECIAL PROBLEMS. A study and investigation of problems of special interest to the student. Formal preparation of results in thesis form required. *Two or three hours.* ELECTIVE (IND. ED.) SENIORS.

## \*ENGLISH

*Professors Aiken, Lindsay, Pope, Dean, Hall, Wainwright,  
†Carleton, and Sullivan; ‡Mr. Merrick.*

1. FRESHMAN COMPOSITION. An elementary course, including criticism of the common errors of speech; study of words, sentences, and paragraph construction; theme writing, oral reports, and study of selected literature as illustrative of the principles discussed. *Three hours.* REQUIRED OF ALL FRESHMEN.
2. HISTORY OF ENGLISH LITERATURE. An outline study of the History of English Literature from its beginning through the Victorian Period. This course is normally considered a prerequisite to advanced courses in English literature. *Three hours.* REQUIRED OF STUDENTS CONCENTRATING IN ENGLISH.  
*Professors Aiken, Lindsay, Pope, Hall, Wainwright,  
and Sullivan*
6. SHAKESPEARE AND HIS CONTEMPORARIES. A study of Elizabethan drama by lectures and collateral reading with literary study and textual interpretation of selected plays of Shakespeare. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Pope*
7. AMERICAN LITERATURE. A general survey of American prose and poetry from the Colonial period to the present time with lectures, reports, and collateral reading. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. *Professor Lindsay*
9. THE ENGLISH NOVEL. A critical study of masterpieces of English fiction of the eighteenth and nineteenth centuries. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.
11. POETRY OF THE ENGLISH RENAISSANCE. Lectures and textual study of selected passages from the more important works of Spenser,

\* Sophomores must take one of the following courses: English 2, English 7, English 15, or English 16; those who intend to concentrate in English should take English 2. Substitutions for sophomore English may be made by the Department.

A student concentrating in English must take thirty hours in courses offered by the Department. Other courses to make up the thirty-six hours for the field of concentration should be chosen from advanced courses in the departments of Classical Languages, Comparative Literature, German, History, Philosophy, Religion, and Romance Languages.

Other courses offered by members of the English Department are listed under Comparative Literature and Religion.

† Absent on leave: Military Service.

‡ Military leave.

Milton, and their contemporaries. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. (Not offered in 1944-45.)

12. THE RESTORATION AND THE EIGHTEENTH CENTURY. A study of the poetry and prose of the periods indicated, especially the principles of New Classicism, the emergence of early romantic tendencies, eighteenth-century satire, and the rise of the essay. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. (Not offered in 1944-45.)  
*Professor Aiken*
13. FORMS OF PRESENT-DAY LITERATURE. A study of English poetry and novel, with particular reference to contemporary movements and writers. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.  
*Professors Aiken and Pope*
14. MODERN DRAMA. The origin and development of American drama with a study of leading European dramatists. The course includes readings of representative plays, the new art of drama and the theatre. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. (Not offered in 1944-45.)
15. PERIODICAL WRITING. News and article writing the first semester, short story and other forms the second semester. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN.  
*Professor Dean*
16. ADVANCED COMPOSITION. This course is recommended to those who wish to teach English, and for others who wish practice in writing. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. (Not offered in 1944-45).
19. INTRODUCTION TO POETICS. An elementary study of the general problems of aesthetics as related to poetry, the forms and characteristics of poetry. Special attention is given to the lyric. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Not offered in 1944-45.)
20. WORDSWORTH AND COLERIDGE. A study of the life, character, and work of William Wordsworth and of Samuel Taylor Coleridge. General class discussion of assigned reading and individual study of selected topics, the results of which are presented before the class. This course may be supplemented by English 30. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Lindsay*
21. BIOGRAPHY AS A TYPE OF LITERATURE. See Religion 21.
22. VICTORIAN LITERATURE (1832-1900). A study of the lives and the works (except the novel) of the significant writers of the era by lectures, discussions, and reports. Each semester outstanding

poets and prose writers are studied as spokesmen of their own age and harbingers of the present one. *Three hours*. ELECTIVE EXCEPT TO FRESHMEN. *Professor Wainwright*

23. BIBLICAL LITERATURE. See Religion 23.
24. SCANDINAVIAN LITERATURE IN TRANSLATION. See Comparative Literature 5.
25. HISTORY AND PRINCIPLES OF CRITICISM. The more important critical writings, past and present, considered as contributions to the theory of literature and as aids to interpretation of literary works. *Three hours, second semester*. ELECTIVE TO JUNIORS AND SENIORS. (Not offered in 1944-45.) *Professor Lindsay*
28. AMERICAN NOVEL. (Omitted for the duration of the war.)
30. BYRON, SHELLEY, AND KEATS. The lives, characters, and works of Byron, Shelley, and Keats. Lectures and general class discussion of assigned reading in their poems and letters, collateral reading in the subjects, and individual reports on selected topics. This course is supplementary to English 20. *Three hours, second semester*. ELECTIVE TO JUNIORS AND SENIORS. *Professor Pope*
104. ANGLO-SAXON. (Not offered in 1944-45.)
105. CHAUCER. *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. *Three hours*. ELECTIVE TO JUNIORS AND SENIORS.

## GEOLOGY

No courses offered 1944-45.

## GERMAN

*Professors Carpenter and Ladd*

1. ELEMENTARY GERMAN. Grammar, pronunciation, easy reading, dictation, and oral practice, for students presenting less than two years of entrance German. *Three hours, if German 2 is also completed*. ELECTIVE. *Professors Carpenter and Ladd*
2. INTERMEDIATE GERMAN. Intensive and extensive reading of short stories, novels, and plays, with emphasis on the attainment of reading ability and particular stress on the acquisition of a basic vocabu-

lary necessary for reading German works in any field. *Three hours.*  
ELECTIVE. PREREQUISITE: GERMAN I OR THE EQUIVALENT.

*Professors Carpenter and Ladd*

3. SCIENTIFIC GERMAN. *Three hours.* (Omitted for duration of the war.)
4. GERMAN LITERATURE OF THE CLASSIC PERIOD. The course covers a selection of the works of Goethe, Schiller, and Lessing, and a survey of the development of German literature from the beginnings through the classic period. There is also practice in the oral and written use of German. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 2.  
*Professor Carpenter*
8. COMPOSITION AND CONVERSATION. A course giving practice in German composition and training in speaking the language. Free composition and oral reports on individual assignments are required. *Three hours, first semester.* ELECTIVE BY PERMISSION.
9. COMPOSITION AND CONVERSATION. A continuation of German 8. By permission it may be taken independently of it for credit. *Three hours, second semester.* ELECTIVE BY PERMISSION. PREREQUISITE: A SATISFACTORY RECORD IN GERMAN 2 OR GERMAN 8. *Professor Ladd*
10. GERMAN LITERATURE IN TRANSLATION. See Comparative Literature 4.
104. GOETHE'S FAUST. A course based on class readings of Part I and portions of Part II. The sources of the poem and its influence are studied, particularly in relation to English literature and drama. There are supplementary readings assigned of various plays which deal with a similar theme. *Three hours, first semester.* ELECTIVE, PREREQUISITE: GERMAN 4. (Offered in alternate years, 1945-46.)  
*Professor Carpenter*
105. GERMAN LITERATURE, 1800-1850. The course includes a study of the selected works of Kleist, Grillparzer, and Heine; recitations, outside reading, and German reports. One hour a week is devoted to lectures and discussions on the Romantic movement and Young Germany. *Three hours, second semester.* PREREQUISITE: GERMAN 4. (Offered in alternate years, 1945-46.)
106. MODERN GERMAN LITERATURE. A course consisting of lectures and class discussions of the history of German literature since 1850. The first semester and a portion of the second are devoted to a study of German drama from Hebbel to the present-day writers.

The remainder of the second semester is given to rapid reading of short stories. Typical novels are assigned for outside reading. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 4. (Offered in alternate years, 1946-47.)

108. ADVANCED COMPOSITION AND CONVERSATION. This course aims to enable the student to speak and write German with facility. Special attention is paid to phonetics as a basis for the acquisition of a correct pronunciation. The course is recommended to those preparing to teach German. Students should consult the instructor before enrolling. *Three hours.* ELECTIVE. PREREQUISITE: GERMAN 4 OR 8.  
*Professor Carpenter*

## HISTORY

*Professors Evans, Putnam, Pooley, and Dean.*

1. ANCIENT HISTORY. A brief survey of the ancient Near East, followed by a more detailed study of the Greek and Roman worlds. *Three hours.* ELECTIVE. (Not offered 1944-45.)
2. MEDIEVAL EUROPE. From the late Roman Empire to the Renaissance, with particular emphasis on political and cultural development. *Three hours.* ELECTIVE.  
*Professor Pooley*
3. SURVEY OF MODERN EUROPE. An introduction to European history commencing with the rise of the national state and the beginnings of modern economic life. *Three hours.* ELECTIVE. NO CREDIT ALLOWED STUDENTS WHO HAVE CREDIT FOR HISTORY 11 OR 12.  
*Professor Evans*
4. HISTORY OF LATIN AMERICA. The political, social, and economic development since the Spanish Conquest. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN.  
*Professor Putnam*
5. ENGLISH HISTORY. (Omitted for the duration of the war.)
7. EARLY AMERICAN HISTORY. A course in American history from the discovery of the new continent to 1865. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN.
8. RECENT AMERICAN HISTORY. A study of the history of the United States from 1865 to the present. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. (Not offered 1944-45.)  
*Professor Putnam*
9. HISTORY OF VERMONT. A course covering the field of state history from the Indian and colonization period to the present, based on

textbook, weekly reports, and classroom discussion. *One hour.*  
ELECTIVE. (Not offered 1944-45.) *Professor Dean*

10. HISTORY OF CANADA. (Omitted for the duration of the war.)
11. EARLY MODERN HISTORY. (Omitted for the duration of the war.)
12. EUROPE IN THE MODERN AGE. European history from the seventeenth century to the present. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.
13. CONTEMPORARY HISTORY. The world between two wars. The course stresses the historical background of current events and problems. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. History 12 is desirable in preparation for this course. *Professor Evans*
14. AMERICAN HISTORY. A general survey of American history from the early national period to the present, designed for students who intend to take only one course in the subject. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. NO CREDIT ALLOWED STUDENTS WHO HAVE CREDIT FOR HISTORY 7 OR 8. *Professor Putnam*
115. SEMINAR. (Omitted for the duration of the war.)

## 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 RELATIONSHIPS

40. CHILD CARE AND HOME CARE OF THE SICK.
- \*41. CHILD DEVELOPMENT.
- \*42. FAMILY RELATIONSHIPS.

### FOOD AND NUTRITION

- \*32. DIETETICS.

### HOME AND INSTITUTIONAL MANAGEMENT

30. HOME MANAGEMENT.



**\*MATHEMATICS**

*Professors Bullard, Fraleigh, Millington, Nicholson, and Witham.*

1. ALGEBRA, TRIGONOMETRY; ANALYTIC GEOMETRY. First semester, elementary college algebra and plane trigonometry. Second semester, plane analytic geometry including the study of equations of lines, conics, and other loci. *Three hours.* ELECTIVE.
3. MATHEMATICS OF FINANCE. Algebra, interest, annuities, insurance, statistics. *Three hours.* REQUIRED (BUS., SEC., C. T.) FRESHMEN.
11. ALGEBRA, TRIGONOMETRY. College algebra, plane and spherical trigonometry. *Five hours, first semester.* REQUIRED (CH., STUDENTS PLANNING TO CONCENTRATE IN MATH. OR SCIENCE, ENG.) FRESHMEN.
12. ANALYTIC GEOMETRY. Plane and solid analytic geometry. Continuation of Math. 11. *Four hours, second semester.*
13. CALCULUS. 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. *Three hours.* PREREQUISITE: MATH. 1.
15. MODERN GEOMETRY. Continuation of the study of Euclidean geometry, introducing many recent theorems. *Three hours.* PREREQUISITE: MATH. 1.
17. ANALYTIC GEOMETRY OF THREE DIMENSIONS. A first course in three dimensional geometry intended to acquaint the student with the analytics of lines, planes, and quadric surfaces. *Three hours, first semester.* PREREQUISITE: MATH. 1.
- 21-22. CALCULUS. 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. *Three hours.* REQUIRED (STUDENTS CONCENTRATING IN MATH. OR SCIENCE, ENG.) PREREQUISITE: MATH. 11-12, OR MATH. 1 AND 17 TAKEN SIMULTANEOUSLY WITH MATH 21.

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

A review course in algebra and geometry may be given for returning veterans and others, but no college credit will be given for such a course.

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

101. PROJECT GEOMETRY. A study of projective transformations and the associated geometries by both synthetic and analytic methods. *Three hours*. PREREQUISITE: MATHEMATICS 21-22.
102. HIGHER ALGEBRA. Linear dependence, matrices, properties of polynomials, etc. *Three hours, second semester*. PREREQUISITE: MATH. 1 OR 11-12.
103. ADVANCED CALCULUS. 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. This course furnishes a foundation for more advanced courses in analysis and applied mathematics. *Three hours*. PREREQUISITE: MATH. 21-22.
104. DIFFERENTIAL EQUATIONS. Solution of ordinary and partial differential equations and topics of advanced calculus especially useful in mathematical physics and engineering. *Three hours*. PREREQUISITE: MATH. 21-22.
105. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE. An elementary study of one complex variable, differentiation and integration, singularities, Riemann surfaces, analytic continuation, etc. *Three hours*. PREREQUISITE: MATH. 103.
159. INFINITE SERIES. Convergent series of constant and of variable terms, uniform convergence, continuity of the sum function, differentiation and integration and theory of summability. *Three hours, first semester*. PREREQUISITE: MATH. 103, UNLESS TAKEN SIMULTANEOUSLY WITH MATH. 103.
- 201-202. THEORY OF FUNCTIONS. 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. *Three hours*. PREREQUISITE: MATH. 103.

## \*MUSIC

## HISTORY AND THEORY OF MUSIC

*Professors Bennett and Pappoutsakis, Miss Marston, Mrs. Bradish, and Mrs. Rowe.*

1. SURVEY OF MUSICAL LITERATURE. A listener's course in music, aiming to acquaint the student especially with the choral music of the sixteenth century, with the compositions of Bach, Handel, Haydn, Mozart, Beethoven, and the romantic and modern composers. *Three hours.* REQUIRED (MUS. ED.) FRESHMEN. ELECTIVE TO OTHERS. NO PREVIOUS TECHNICAL KNOWLEDGE REQUIRED.
3. ELEMENTARY HARMONY. The study of chords—how to arrange them effectively, how to connect them smoothly, and how to employ them to accompany a melody. *Three hours.* REQUIRED (MUS. ED.) SOPHOMORES. ELECTIVE TO OTHERS.
4. ADVANCED HARMONY AND HARMONIC ANALYSIS. *Three hours.* REQUIRED (MUS. ED.) JUNIORS. ELECTIVE TO OTHERS. PREREQUISITE: MUSIC 3.
5. COUNTERPOINT. *Three hours.* ELECTIVE. PREREQUISITE: MUSIC 3.  
*Professor Bennett*
8. ELEMENTARY SIGHT-SINGING AND THEORY. Recommended to precede or accompany Music 3, Elementary Harmony, but may be taken separately. *Two hours.* REQUIRED (MUS. ED.) FRESHMEN. ELECTIVE TO OTHERS.
9. ADVANCED SIGHT-SINGING AND THEORY. Recommended to precede or accompany Music 4, Advanced Harmony, or Music 5, Counterpoint, but may be taken separately. *Two hours.* REQUIRED (MUS. ED.) SOPHOMORES. ELECTIVE TO OTHERS. PREREQUISITE: MUSIC 8.  
*Professor Pappoutsakis*
10. SECONDARY SCHOOL MUSIC AND PRACTICE TEACHING. The administration and content of the required and elective music courses in the junior and senior high schools. Observation and practice teaching in the schools of Burlington and vicinity. Students must have credit for or be enrolled in Music 1 and Music 8. *Three hours.* REQUIRED (MUS. ED.) SENIORS. ELECTIVE BY PERMISSION.  
*Miss Marston*

\* A major in music must include Music 1, 3 and 4, 5 or 11, the related minor being German, French, or Italian. See Index for Curriculum in Music Education.

11. ORCHESTRATION AND CONDUCTING. A study of the characteristics of instruments; arranging; technique of the baton; elementary instrumental technique. *Three hours*. REQUIRED (MUS. ED.) SENIORS. ELECTIVE BY PERMISSION. PREREQUISITE MUSIC 3; PREFERABLY ALSO MUSIC 4. *Professor Pappoutsakis*
12. APPLIED MUSIC METHODS. Methods of teaching piano, organ, singing, or violin. *One hour*. REQUIRED (MUS. ED.) SENIORS. PREREQUISITE: THREE YEARS' INSTRUCTION IN CHOSEN INSTRUMENT AT THE UNIVERSITY, OR EQUIVALENT. *Miss Marston and Mrs. Bradish*
13. CHOIR. Study of works by Bach, Handel, Palestrina, modern Russian composers and others. Weekly services, monthly vespers, Christmas and Lenten-Easter concerts, annual opera, and Baccalaureate service. Three hours rehearsal if taken for credit. *One hour*. *Professor Bennett, director; Miss Marston, organist*
14. ORCHESTRA. 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. *One hour*. *Professor Pappoutsakis, conductor*
15. HISTORY OF MUSIC. The changes in musical structure and style from the beginnings of harmony to the present, and their relation to contemporaneous artistic, literary, religious, and social movements. *Three hours*. REQUIRED (MUS. ED.) SENIORS. ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: MUSIC 1. *Professor Bennett*
106. CANON AND FUGUE. *Three hours*. ELECTIVE BY PERMISSION. PREREQUISITES: MUSIC 4 AND 5.
107. COMPOSITION. *Two hours*. ELECTIVE BY PERMISSION. PREREQUISITES: MUSIC 4 AND 5. *Professor Bennett*
335. SCHOOL MUSIC 1. See Elementary Education 335.
336. SCHOOL MUSIC 2. See Elementary Education 336.
345. ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING. The teaching of music in the primary and grammar grades. Observation and practice teaching in the schools of Burlington and vicinity. Students must have credit for or be enrolled in Music 1 and Music 8. *Three hours*. REQUIRED (MUS. ED.) JUNIORS. ELECTIVE (EL. ED.) JUNIORS AND SENIORS. *Miss Marston*

## APPLIED MUSIC

PIANO AND ORGAN, *Miss Marston*; SINGING, *Mrs. Bradish*; VIOLIN, *Mrs. Rowe*.

One semester hour of credit will be given for one private lesson in piano, organ, voice or violin, under a member of the department, and five hours practice per week; and two semester hours of credit for two private lessons and ten hours practice per week, upon the recommendation of the instructor concerned and of the head of the department, and on condition that the instruction be accompanied or preceded by any of the following courses: Music 1, Survey of Musical Literature; Music 3, Elementary Harmony; Music 4, Advanced Harmony and Harmonic Analysis; Music 5, Counterpoint. For the fees for instruction and use of organ and practice piano, see the Index under "Fees."

## PHILOSOPHY

*Professors Gifford and Dykhuizen*

- 1. LOGIC. The principles and conditions of correct thinking, with emphasis on the detection of the characteristic fallacies of thought. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN.
- 2. ETHICS. An examination of the ideas underlying man's moral behavior. The aim is to develop an acceptable and coherent theory of personal conduct. *Three hours, second semester.* ELECTIVE EXCEPT TO FRESHMEN.  
*Professor Dykhuizen*
3. SOCIAL ETHICS. The application of psychological and ethical principles, and the techniques of adjustment, in social problem situations. *Three hours, second semester.* ELECTIVE. PREREQUISITE: JUNIOR STANDING, AND PSYCHOLOGY 3 OR PHILOSOPHY 2. *Professor Gifford*
- 4. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. Philosophical thought as found among the ancient Greek, Roman, and medieval thinkers. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
- 5. HISTORY OF MODERN PHILOSOPHY. The more important philosophers from the time of the Renaissance to the end of the nineteenth century. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.  
*Professor Dykhuizen*
107. PHILOSOPHICAL CRITICISM. *Three hours.* (Omitted for the duration of the war.)

108. HISTORY AND INTERPRETATION OF RELIGION. *Three hours, first semester.* (Omitted for the duration of the war.)
109. METAPHYSICS. *Three hours, second semester.* (Omitted for the duration of the war.)
110. INTELLECTUAL BACKGROUND OF MODERN LIFE. The thought movements which have determined the thought of today. *Three hours, second semester.* ELECTIVE TO SENIORS. REQUIRED FOR MASTER OF EDUCATION DEGREE. *Professor Dykhuizen*

## PHYSICS

*Professors Holmes, Walbridge, \*Woodward, and Rooney*

1. GENERAL PHYSICS. Some of the experimental facts and theoretical principles of mechanics, properties of matter, heat, sound, magnetism, electricity, and light. The purposes are to train the students in the scientific method of reasoning and to enable them to acquire a knowledge of their physical environment. The course includes a demonstration lecture each week and the performance of about sixty experiments by each student. Laboratory Fee \$5.00 per semester. *Five hours.* REQUIRED (STUDENTS CONCENTRATING IN THE DIVISION OF SCIENCE, CH., ENG.). ELECTIVE TO OTHERS. PREREQUISITE: MATHEMATICS 1 OR 11-12. *The Staff*
3. INTRODUCTORY PHYSICS. Designed for students not concentrating in science. Demonstration lectures and one laboratory period each week. Laboratory Fee \$2.50 per semester. *Three hours.* *The Staff*
101. MECHANICS. The emphasis is on the integration of fundamental physical principles with mathematics. *Three hours.* PREREQUISITES: PHYSICS 1 AND CALCULUS. (Not offered 1945-46. See Mathematics and Mechanics 23, 31, and 32.)
102. HEAT. Two lectures and one two-hour laboratory period per week. Laboratory Fee \$5.00 per semester. *Three hours.* PREREQUISITES: PHYSICS 1 AND CALCULUS. (Not offered 1945-46.) *Professor Woodward*
104. ELECTRICITY AND MAGNETISM. Fundamental principles and their applications to electric and magnetic equipment. In the laboratory the class applies the general principles to magnetic and to electrical

\* Absent on leave, 1944-45.

measurements. Laboratory Fee \$5.00 per semester. *Three hours.*  
 PREREQUISITES: PHYSICS 1 AND CALCULUS. (Not offered 1945-46.)

105. X-RAYS. In the laboratory the student performs some of the important experiments which have resulted in the modern conception of radiation. Laboratory Fee \$5.00 per semester. *Three hours.*  
 PREREQUISITES: PHYSICS 1 AND CALCULUS. (Not offered 1945-46.)

*Professor Walbridge*

106. LIGHT. Including geometrical optics, physical optics and spectroscopy. Laboratory Fee \$5.00 per semester. *Three hours.* PRE-REQUISITES: PHYSICS 1 AND CALCULUS. (Offered 1945-46.)

*Professor Woodward*

107. MODERN PHYSICS. A study of certain parts of physics which have recently been developed. Approximately one-half of the year is devoted to electronics. Each student performs about thirty experiments. Laboratory Fee \$5.00 per semester. *Three hours.* PRE-REQUISITES: PHYSICS 1. (Offered 1945-46.)

*Professor Holmes*

108. UNDERGRADUATE LABORATORY. The student will do independent experimental work and write a thesis on some subject selected in consultation with the instructor. Laboratory Fee \$5.00 per semester. *Three hours.* PREREQUISITE: ANY OTHER PHYSICS COURSE NUMBERED ABOVE 100, AND CONSENT OF THE INSTRUCTOR.

*The Staff*

204. SEMINAR. Contemporary advances in physics and special problems. Reports on research problems currently carried on in the department. *One hour.* REQUIRED OF ALL GRADUATE STUDENTS.

*The Staff*

210. RESEARCH. For students seeking a Master of Science degree in Physics. *Nine to twelve hours.* PREREQUISITE: THREE PHYSICS COURSES NUMBERED ABOVE 100 AND MATH. 103 OR 104.

*The Staff*

## POLITICAL SCIENCE

*Professors Carroll and Nuquist; \*Dr. Long*

1. AMERICAN GOVERNMENT. The organization and function of national, state, and local governments in the United States. *Three hours.* ELECTIVE.

*Professors Carroll and Nuquist*

\* Absent on leave: Military Service.

3. INTERNATIONAL RELATIONS. The fundamentals of international politics and the problem of force in international relations. An effort is made to develop a constructively critical attitude toward these problems. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN.  
*Professor Nuquist*
5. COMPARATIVE GOVERNMENT: THE BRITISH COMMONWEALTH OF NATIONS. The development, organization, and function of the political institutions of Great Britain, the self-governing dominions, and the colonies. *Three hours, first semester.* PREREQUISITE: POLITICAL SCIENCE 1.  
*Professor Carroll*
6. COMPARATIVE GOVERNMENT: CONTINENTAL EUROPE. The organization and function of the governmental institutions of the leading states of Continental Europe, with emphasis on types of government. *Three hours, second semester.* PREREQUISITE: POLITICAL SCIENCE 1.  
*Professor Carroll*
- †7. RURAL GOVERNMENT. The organization, function, and procedure of rural government in the United States. Town government in Vermont is stressed with particular attention to such factors as state control, town reporting, land use, and local revenues. The significance of rural government in the preservation of American democracy is emphasized. *Three hours, first semester.* PREREQUISITE: POLITICAL SCIENCE 1.
- †8. MUNICIPAL GOVERNMENT. The basic problems and significant developments in the field of municipal government. Theories of government are analyzed in the light of actual practice. *Three hours, second semester.* PREREQUISITE: POLITICAL SCIENCE 1.  
*Professor Nuquist*
104. CONSTITUTIONAL LAW. The interpretation and development of the Constitution of the United States, with emphasis on the judicial process as evidenced in leading decisions of federal and state courts. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: POLITICAL SCIENCE 1.  
*Professor Carroll*
106. FOREIGN POLICY OF THE UNITED STATES. An analysis of the foreign policy of the United States with particular attention to underlying fundamentals. A detailed study is made of the foreign relations of the United States in each of the great regions of the world. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: POLITICAL SCIENCE 3.  
*Professor Nuquist*
107. FAR EASTERN POLITICS. The races, civilization, and political, eco-



conomic, and social development of the Far East, with attention to the activity and interests of European nations and the United States in this region and to the external growth of states located in this area. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: POLITICAL SCIENCE 3. *Professor Nuquist*

- \*114. INTERNATIONAL LAW. A brief survey of the legal basis of international relations with major emphasis on the rules governing international intercourse in time of peace. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
115. PUBLIC ADMINISTRATION. A study of the nature and development of administrative agencies and services in national, state, and local governments. *Three hours.* PREREQUISITE: POLITICAL SCIENCE 1. ELECTIVE TO JUNIORS AND SENIORS. *Professor Nuquist*
151. HISTORY OF POLITICAL THEORY. The development of political theories from Socrates to the theorists of the present day. An effort is made to follow particularly the origin and growth of ideas of government which are now recognized as important. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: THREE COURSES IN POLITICAL SCIENCE. *Professor Carroll*
152. POPULAR GOVERNMENT. This course is intended to familiarize the student with the basic governmental theories and problems of the present day. The subjects covered include the theory and practice of popular government in relation to other types, current trends in the organization and function of government, and the mechanics of popular control of government. Emphasis is placed upon fundamental principles in the solution of public problems. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: THREE COURSES IN POLITICAL SCIENCE. *Professor Carroll*

## PSYCHOLOGY

*Professors Metcalf, Gifford, and †Collier; †Dr. L. A. Riggs.*

1. GENERAL PSYCHOLOGY. An introduction to the entire field with emphasis upon the normal, adult human being. *Three hours.* REQUIRED (AG., H. E., AND ED.). *Professors Metcalf and Gifford*
2. APPLIED PSYCHOLOGY. The applications of psychological method and technology to present day problems of individual and group adjustment. *Three hours.* PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*

\* Not offered 1944-45.

† Absent on leave 1944-45.

3. SOCIAL PSYCHOLOGY. The social factors in personality and the psychological aspects of social relations, groups, institutions, and culture. Followed by Philosophy 3. *Three hours, first semester.* PREREQUISITE: PSYCHOLOGY 1. *Professor Gifford*
4. GENETIC PSYCHOLOGY. The evolution from simpler to more complex forms of behavior in animal life, in connection with the mental development of the human individual from birth to maturity. *Three hours, first semester.* PREREQUISITE: PSYCHOLOGY 1.
5. ABNORMAL PSYCHOLOGY. The more unusual mental processes, the methods of observing and interpreting them, and their bearing upon our understanding of the normal mind. *Three hours, second semester.* PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*
7. AESTHETICS. The mental processes involved in the response to the beautiful in art and nature. *Three hours.* PREREQUISITE: PSYCHOLOGY 1. *Professor Metcalf*
8. PSYCHOLOGICAL TESTS AND MEASUREMENTS. Individual training in the fundamental concepts of psychological measurement, the administration of tests and the interpretation of results. *Three hours.* PREREQUISITE: PSYCHOLOGY 1. (Not offered 1944-45.)
106. EXPERIMENTAL PSYCHOLOGY. The student performs experiments designed to develop skill in psychological methods of procedure and thought. *Three hours.* (Two two-hour laboratory periods and a one-hour lecture period.) PREREQUISITE: PSYCHOLOGY 1. (Offered 1945-46.) *Professor Metcalf*

## RELIGION

21. TYPICAL RELIGIOUS LEADERS AND THINKERS. The religious leader as a personality as well as a thinker; the history of the early Christian church studied through the lives of these leaders; some foundation study of biography as a type of literature. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN.
23. BIBLICAL LITERATURE. An introduction to the literature of the Old and New Testaments with a consideration of the value of the Book as an English classic as well as a record of religious experience and of the development of religious institutions. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. *Professor Hall*

## ROMANCE LANGUAGES

*Professors Myrick, DeForest, Doane, and Towne.*

## FRENCH

1. ELEMENTARY COURSE. A course in grammar, pronunciation, composition and translation, dictations, and use of the spoken language for beginners and students who present less than two years of preparatory French. *Three hours, if French 3 is also completed.* ELECTIVE. *Professor Doane*
3. INTERMEDIATE COURSE. A course in French Prose and Poetry, grammar, composition and translation, collateral reading, dictations, and conversational exercises. The class work is conducted in French. Reserved sections are offered to students who expect to concentrate in French. *Three hours.* ELECTIVE. PREREQUISITE: FRENCH 1 OR TWO YEARS OF PREPARATORY FRENCH.

*Professors DeForest, Doane and Towne*

*All of the courses following are conducted in French:*

4. FRENCH LITERATURE OF THE NINETEENTH CENTURY. An advanced course including lectures, recitations, collateral reading, reports, and assignments in advanced composition. The lectures deal with the growth of Romanticism and the reactions to Realism, Naturalism, and present-day tendencies. Reserved section for students expecting to concentrate in French. *Three hours.* ELECTIVE. PREREQUISITE: FRENCH 3. *Professor Myrick*
105. FRENCH LITERATURE IN THE NINETEENTH CENTURY FROM THE ROMANTIC SCHOOL TO 1900. Recitations, lectures, outside reading, and reports. A ready reading knowledge of French is presumed. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Offered 1945-46.)
106. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. The course includes readings and recitations, and a series of lectures on the development of classic literature. The influence of Society, the Academy, and the Church on the French literature of this period is emphasized. The romance, poetry, and drama are read and studied. Collateral reading and reports are assigned. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Offered 1946-47.)
107. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. A course consisting of selected readings, lectures on the growth of liberalism,

the "return to nature," the drama, and the novel. Voltaire, Rousseau, and their influence on modern thought. Collateral readings and reports. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: FRENCH 4. (Offered 1944-45.) *Professor Myrick*

108. FRENCH CONVERSATION AND COMPOSITION. An advanced course in composition including lessons in phonetics. Exercises in advanced conversation continue throughout the year. This course is required of those who expect to be recommended as teachers of French. *Three hours.* ELECTIVE BY PERMISSION. PREREQUISITE: GOOD STANDING IN FRENCH 4.

*Professors Myrick and DeForest*

109. FRENCH READINGS IN THE FOURTEENTH AND FIFTEENTH CENTURIES. A course based on readings from Joinville, Commines, Froissart, Villon, and other contemporary writers. Outside reading and reports are required. *Two hours, first semester.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. A knowledge of Latin is desirable.

110. FRENCH LITERATURE OF THE SIXTEENTH CENTURY. Readings from Montaigne, Rabelais, the Pléiade Poets. Outside reading and reports. *Two hours, second semester.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS. A knowledge of Latin is desirable.

111. OLD FRENCH. A series of lectures on Old French phonology and morphology and selected readings from the oldest texts. *Three hours.* ELECTIVE TO SENIORS AND GRADUATE STUDENTS BY PERMISSION. PREREQUISITE: COURSES IN ADVANCED FRENCH AND LATIN 1.

*Professor Myrick*

112. ADVANCED COMPOSITION AND CONVERSATION. Translation into French of difficult modern English prose, free composition and discussion of questions of rhetoric and style, exercises in intonation. Practice in advanced conversation throughout the year. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.

*Professors Myrick and DeForest*

113. MODERN FRENCH DRAMA. 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. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.

*Professor DeForest*

200. ADVANCED COURSES may be taken by graduate students, and resident candidates for the degree of Master of Arts, for whom further opportunities for independent work will be provided. Qualified

graduate students majoring in French may be permitted to take advanced courses in Italian or Spanish. *Professor Myrick*

## ITALIAN

1. ELEMENTARY ITALIAN. A beginner's course, grammar and composition, translation and practice in the spoken language. Enrollment restricted to students having good standing in other language courses. *Three hours.* ELECTIVE BY PERMISSION.
2. ADVANCED ITALIAN. *Three hours.* ELECTIVE. PREREQUISITE: ITALIAN 1. *Professor Myrick*

## SPANISH

1. ELEMENTARY SPANISH. A beginner's course including grammar, composition and translation with frequent practice in pronunciation, and use of the spoken language. *Three hours, if Spanish 2 is also completed.* ELECTIVE. *Professors DeForest, Doane and Towne*
2. INTERMEDIATE SPANISH. A course consisting of readings from authors such as Becquer, Pardo Bazán, Taboada, Galdós, Pereda, Blasco-Ibáñez. Advanced composition, dictation, and conversational practice. *Three hours.* ELECTIVE. PREREQUISITE: SPANISH 1 OR THE EQUIVALENT. *Professors DeForest, Doane and Towne*
103. NINETEENTH CENTURY SPANISH LITERATURE. Reading of selected texts illustrative of the Romantic, Realist, and Naturalist schools; recitations, collateral reading, reports; advanced composition. Conducted in Spanish. *Three hours.* ELECTIVE. PREREQUISITE: A GRADE OF NOT LESS THAN C IN SPANISH 2. *Professor DeForest*
104. SPANISH CONVERSATION AND COMPOSITION. Conversation, lessons in phonetics, intonation, supplemented by training in advanced composition. Conducted in Spanish. Required of those who expect to be recommended to teach Spanish. *Three hours.* ELECTIVE TO JUNIORS, SENIORS, AND GRADUATE STUDENTS WHO HAVE HIGH STANDING IN SPANISH 103. *Professor DeForest*
105. OLD SPANISH. An introduction to Spanish literature from the beginnings to the end of the mediaeval period with readings from early texts. Study of the development of sounds, forms, and syntax from vulgar Latin into Spanish. *Two hours.* ELECTIVE TO SENIORS AND

GRADUATE STUDENTS. PREREQUISITES: HIGH STANDING IN ADVANCED COURSES IN SPANISH AND LATIN 1. *Professor Myrick*

200. The department offers advanced courses in Old Spanish and Spanish Literature for graduate credit to resident candidates for the Master's degree. Qualified graduate students majoring in Spanish may be permitted to take advanced courses in French or Italian.

*Professor Myrick*

## SOCIOLOGY

*Professor Gifford*

1. DEVELOPMENT OF SOCIETY. Social and cultural origins and evolution. Contemporary social relations, institutions, and trends. *Three hours.* ELECTIVE EXCEPT TO FRESHMEN. *Professor Gifford*
2. SOCIAL PSYCHOLOGY. (See Psychology 3.)
3. SOCIAL ETHICS. (See Philosophy 3.)

## SPANISH

For courses in Spanish see Romance Languages.

## \*ZOOLOGY

*Professors Perkins, Moody and Rowell; Dr. Lochbead*

1. GENERAL ZOOLOGY. The fundamental principles of biology illustrated by invertebrate and vertebrate forms. Laboratory Fee \$4.00. *Four hours, one semester, alternating with Botany 1.* ELECTIVE. *Professor Rowell; Dr. Lochbead*
2. GENERAL ZOOLOGY. The course presents a broad survey of the principles of animal biology, including structure, physiology, heredity, evolution, and acquaintance with the main types of invertebrate and vertebrate animals. Laboratory Fee \$4.00 per semester. *Four hours.* ELECTIVE. *Professor Moody and Dr. Lochbead*
5. ANIMAL ECOLOGY. A course treating of the distribution of animals and their relations to one another and to their environment, including association, seasonal changes, and behavior. The field study is

\* Students who major in Zoology are required to enroll in Zoology 111 during the Senior year.

supplemented by experiments, lectures, and laboratory work. Laboratory Fee \$2.50 per semester. *Three hours.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR THE EQUIVALENT. (Not offered 1944-45.)

6. COMPARATIVE ANATOMY. Study of the structure of vertebrate animals to gain understanding of the evolutionary background of mammalian anatomy. Laboratory Fee \$5.00 per semester. *Four hours.* ELECTIVE. *Professor Moody*
7. VERTEBRATE EMBRYOLOGY. A detailed study of the development of the frog and the chick. These forms are used as a point of departure for a discussion of the fundamental problems of development in the vertebrates. Laboratory Fee \$4.00. *Four hours, second semester.* PREREQUISITE: GENERAL ZOOLOGY. *Professor Rowell*
8. ENTOMOLOGY. An elementary study of insects with special emphasis on forms of economic importance in Vermont. Recitation, laboratory and field trips. Laboratory Fee \$2.50. *Two hours, second semester.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR THE EQUIVALENT. (Not offered 1944-45.)
9. EVOLUTION. A lecture course with assigned readings on backgrounds of evolution, evidence of its occurrence, and theories of the methods of evolution, in light of modern research. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. *Professor Perkins*
10. HEREDITY. A study of the mechanism of heredity, heritable and non-heritable characteristics, the laws of human inheritance, eugenics, using material gathered by the Eugenics Survey of Vermont. *Three hours.* ELECTIVE TO JUNIORS AND SENIORS.
12. EUGENICS. A seminar course on practical applications of the principles of race betterment, including conservation of the family, and population problems such as migration, birth rates, and racial mixtures. Recommended for general cultural education and especially to those interested in any phase of social work, including teaching. *Three hours, second semester.* PREREQUISITE: ZOOLOGY 10. *Professor Perkins*
13. PHYSIOLOGY. The fundamentals of physiological phenomena in man and other vertebrates. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. PREREQUISITE: GENERAL ZOOLOGY. *Dr. Lochbead*
14. EDUCATIONAL BIOLOGY. See Education 346.
15. PHYSIOLOGY.  
A study of biochemical and biophysical phenomena as related to stimulus and response, enzyme action, oxidation and reduction, and

renal function. Laboratory Fee \$2.50. *Three hours, second semester.* ELECTIVE. PREREQUISITE: ZOOLOGY 2 OR THE EQUIVALENT.

*Dr. Lockhead*

106. PRIMATE ANATOMY. A detailed dissection of the Rhesus monkey. Recommended to candidates for Senior Honors in Zoology. Laboratory Fee announced each year. *Two hours.* ELECTIVE BY PERMISSION. PREREQUISITE: ZOOLOGY 6 OR ITS EQUIVALENT.

*Professor Moody*

111. SEMINAR. Papers and discussion on the more important topics in zoological research. *One hour.* REQUIRED OF ALL GRADUATE AND SENIOR STUDENTS MAJORING IN ZOOLOGY.

*Professor Perkins*

## \*The College of Engineering

The College of Engineering offers instruction in the three curricula, Civil, Electrical, and Mechanical Engineering, each leading to the degree of Bachelor of Science in the field of specialization. Each curriculum includes the general subjects: Mathematics, Chemistry, Physics, Mechanical Drawing, Elements of Electrical Engineering, Mechanics, Engineering Materials, Hydraulics, Economics, English, and Contracts.

All freshman and sophomore men are required to complete the two basic courses in Military Science for a total credit of eight semester hours. These credits become an integral part of the record and are counted toward graduation. Two years of Physical Education are required of all students.

Students enrolled in the College of Engineering may become affiliated with their respective national professional engineering societies, the American Society of Civil Engineers, the American Institute of Electrical Engineers and the American Society of Mechanical Engineers, as each of these organizations has authorized a student chapter at the University of Vermont. These student organizations sponsor frequent meetings, the purpose of which is to present an opportunity for students to conduct activities similar to those conducted by members of the national societies. These activities include meetings at which technical papers are presented by students and by engineers who are actively engaged in the profession; attendance at conventions and inspection trips, all of which provide

\* Due to the war emergency the College of Engineering is now operating on an accelerated program which makes possible the completion of the four-year curricula in three academic years plus two summer terms.



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)		1ST SEMESTER	2ND SEMESTER	THE SOPHOMORE YEAR (for all curricula)		1ST SEMESTER	2ND SEMESTER
Freshman Math. (M.M. 11, 12) .....		5	4	Calculus (M.M. 21, 22) .....		3	3
Mech. Drawing (M.E. 11, 12) .....		3	3	Statics (M.M. 23) .....		...	3
Inorganic Chem. (Chem. 1) .....		4	5	Gen. Physics (Phys. 1) .....		5	5
English Comp. (Eng. 1) .....		3	3	Advanced English .....		3	3
Engrg. Materials (C.E. 10) .....		...	2	Physical Education 2 .....		1	1
Physical Education 1 .....		1	1	Military Science 2 .....		2	2
Military Science 1 (Men) .....		2	2	Additional courses as indicated below.			
		18	20			19	19-22

In the Sophomore year, the following are also required:

Civil Engineering: Surveying (C.E.20,21) 5 hours first semester and 3 hours second semester, and Engineering Camp (C.E.22) 2 hours credit second semester;

Electrical Engineering: Elements of Electrical Engineering (E.E.20) 5 hours first semester and D. C. Machines (E.E.21) three hours second semester;

Mechanical Engineering: Manufacturing Processes (M.E.23,24) 2 hours each semester, and Elements of Power Engineering (M.E.25) 3 hours first semester.

## CIVIL ENGINEERING

THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER	THE SENIOR YEAR		1ST SEMESTER	2ND SEMESTER
Kinetics (M.M. 31) .....		3	...	Hydraulics (C.E. 47, 48) .....		4	...
Mech. of Matls. (M.M. 32) .....		...	3	Bridge Design (C.E. 40) .....		3	...
Graphic Statics (C.E. 30) .....		3	...	Masonry Constr. (C.E. 41) .....		...	3
Bridge Stresses (C.E. 31) .....		...	3	Sanitary Engrg. (C.E. 45, 46) .....		3	3
Direct Currents (E.E. 36) .....		4	...	Contracts (C.E. 43) .....		2	...
Alternat. Currents (E.E. 37) .....		...	4	Highway Engrg. (C.E. 44) .....		...	3
Mapping (C.E. 33) .....		2	...	Materials Lab. (C.E. 49) .....		...	2
Reinforced Concrete (C.E. 32) .....		...	2	Engrg. Constr. (C.E. 42) .....		...	2
Elem. Economics (Ec. 1) .....		3	3	Engrg. Geology (Geol. 3) .....		3	...
Elective .....		3	3	Elective .....		2	2
Engineering Camp (C.E. 34) .....		...	(2)			17	18
		18	20				

## ELECTRICAL ENGINEERING

THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER	THE SENIOR YEAR		1ST SEMESTER	2ND SEMESTER
Kinetics (M.M. 31)	3	...		Contracts (C.E. 43)	2	...	
Mech. of Matls. (M.M. 32)	...	3		Hydraulics (C.E. 47, 48)	4	...	
D.C. Machines (E.E. 31)	2	...		Electronics Lab. (E.E. 40)	1	...	
A.C. Theory (E.E. 34, 35)	3	3		Wire Commun. (E.E. 46)	3	...	
D.C. Lab. (E.E. 32, 33)	2	2		Wire Commun. (E.E. 47) or			
Electronics (E.E. 30)	...	3		Radio Commun. (E.E. 48)	...	5	
Elem. Economics (Ec. 1)	3	3		A.C. Machines (E.E. 44, 45)	3	5	
Thermodynamics (M.E. 35)	3	...		Power Transmission (E.E. 41)	...	3	
Power Engineering (M.E. 38)	...	4		A.C. Lab. (E.E. 42, 43)	2	2	
Diff. Equations (M.M. 33)	2	...		Elective	3	3	
	—	—			—	—	
	18	18			18	18	

## MECHANICAL ENGINEERING

THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER	THE SENIOR YEAR		1ST SEMESTER	2ND SEMESTER
Kinetics (M.M. 31)	3	...		Mach. Stress Anal. (M.E. 41)	4	...	
Mech. of Matls. (M.M. 32)	...	3		Machine Design (M.E. 42)	...	4	
Kinematics (M.E. 32)	...	3		Indus. Engrg. (M.E. 43)	3	...	
Thermodynamics (M.E. 35)	3	...		Factory Planning (M.E. 44)	...	3	
Int. Comb. Eng. (M.E. 36)	...	3		Air Conditioning (M.E. 45)	3	...	
Indus. Metallurgy (M.E. 39)	3	...		Steam Power Plants (M.E. 47)	...	4	
D.C. Circ. & Mach. (E.E. 36)	4	...		Aerodynamics (M.E. 48)	...	3	
A.C. Circ. & Mach. (E.E. 37)	...	4		Seminar (M.E. 50)	...	2	
Elem. Economics (Ec. 1)	3	3		Hydraulics (C.E. 47, 48)	4	...	
Elective	2	2		Contracts (C.E. 43)	2	...	
	—	—		Elective	2	2	
	18	18			—	—	
					18	18	

## COURSES OF INSTRUCTION

## CIVIL ENGINEERING

*Dean Eckhard, Professors Puffer and \*Aldrich*

10. **ENGINEERING MATERIALS.** A descriptive course, covering the making, shaping, treating and properties of iron and steels; non-ferrous metals and alloys; Portland and other cements, concrete, clay products, wood and other materials used by engineers. Lectures and demonstrations. *Two hours, second semester (ENG.) FRESHMEN.*

\* Absent on leave, 1944-45.

20. SURVEYING. The theory of land, city, topographic and hydrographic surveying; methods of computing and plotting traverses, computing areas and earthwork; field practice in the use and adjustments of surveying instruments. Recitations, computation periods and field work. *Five hours, first semester (C. E.) SOPHOMORES.*
21. ROUTE SURVEYING. A course dealing with reconnaissance, preliminary, location, construction and maintenance surveys for railroads, highways, pipe lines, transmission lines, canals; the theory of simple, compound, reverse and vertical curves and the spiral easement; string-lining of curves; theory and methods of computing earthwork. The instruction includes lectures, recitations and problem work. *Three hours, second semester (C. E.) SOPHOMORES.*
22. ENGINEERING CAMP. Field practice in land and topographic surveying, leveling, triangulation and base-line measurement. Camp Fee \$15.00. *Four weeks at close of second college year; two semester hours credit (C. E.).*
30. GRAPHIC STATICS. The determination of the dead and live load stresses in roof and bridge trusses by means of the application of the equilibrium polygon. *Three hours, first semester (C. E.) JUNIORS.*
31. BRIDGE STRESSES. The analytical determination of stresses in simple framed structures under dead and live loads; the theories of deflection and least work; the history of truss development; numerous problems exemplifying the theory. *Three hours, second semester (C. E.) JUNIORS.*
32. REINFORCED CONCRETE. The theory and design of reinforced concrete structures, the theories of beam flexure, the derivation of formulas and the design of slabs, girders, columns and special structures of reinforced concrete. *Two hours, second semester (C. E.) JUNIORS.*
33. MAPPING. Computation and plotting of the work done at Engineering Camp. *Two hours, first semester (C. E.) JUNIORS.*
34. ENGINEERING CAMP. Field practice in route surveying. Camp Fee \$15.00. *Four weeks at close of third college year (C. E.). Two semester hours credit.*
- 35-36. GEODESY. (Omitted for the duration of the war.)
37. SURVEYING. (Omitted for the duration of the war.)
38. RAILROAD ENGINEERING. (Omitted for the duration of the war.)

40. BRIDGE DESIGN. The design of a roof truss, plate girder and railroad truss bridge; the making of stress sheets, order and shipping bills, estimates of weight and shop drawings of the structures designed. The methods used conform to the best modern practice. A careful study is made of standard specifications. *Three hours, first and second semester (C. E.) SENIORS.*
41. MASONRY CONSTRUCTION. The design of dams, retaining walls, concrete bridges and other masonry structures by graphical and analytical methods. The instruction is given by lectures and drafting room work. *Three hours, second semester (C. E.) SENIORS.* PREREQUISITE: C. E. 32.
42. ENGINEERING CONSTRUCTION. A course dealing with the foundations of structures; timber, concrete and steel piles; cofferdams, caissons and piers; footings, grillages and underpinning; bearing power of soils. *Two hours, second semester (C. E.) SENIORS.*
43. CONTRACTS AND ENGINEERING RELATIONS. The business and professional relations of the engineer, together with the study of engineering contracts and specifications, and the laws relating to their writing, interpretation and enforcement. *Two hours, first semester (ENG.) SENIORS.*
44. HIGHWAY ENGINEERING. A study of the general principles of design, construction and maintenance of modern types of highways and street pavements, including methods of highway administration and finance. *Three hours, second semester (C. E.) SENIORS.*
45. SANITARY ENGINEERING. A study of water supplies; methods of collection, storage, purification and distribution of water; relation of disease to water supply; examination of water; construction, operation, and maintenance of water works. *Three hours, first semester (C. E.) SENIORS.*
46. SANITARY ENGINEERING. A study of the methods of design, construction and operation of sewer systems and sewage treatment plants; their relation to sanitation and public health; the final disposal of sewage products and other wastes. *Three hours, second semester (C. E.) SENIORS.*
47. HYDRAULICS. A study of pressure of liquids on submerged surfaces; stresses in pipes; stability of floating bodies; flow through orifices, tubes, pipes and over weirs; flow in conduits, canals and natural streams; meters and water measurement; hydrodynamics and hydraulic machinery. *Three hours, first semester (ENG.) SENIORS.*

48. **HYDRAULICS LABORATORY.** An experimental and field course in hydraulic measurements, including stream flow; tests of meters, weirs and orifices; friction loss in pipes; tests of pumps, water wheels and other hydraulic machinery. Laboratory Fee \$2.50. *One hour, first semester (ENG.) SENIORS.*
49. **MATERIALS LABORATORY.** Testing of Portland cement, aggregates, concrete, wood and steel; elementary tests of soils. Laboratory Fee \$5.00. *Two hours, second semester (C. E.) SENIORS.*
130. **HIGHWAY TRAFFIC ENGINEERING.** (Omitted for the duration of the war.)
140. **WATER POWER ENGINEERING.** (Omitted for the duration of the war.)
141. **ADVANCED GEODESY.** (Omitted for the duration of the war.)

## ELECTRICAL ENGINEERING

*Professors McKee, Buchanan, \*Williams and Shorey*

20. **ELEMENTS OF ELECTRICAL ENGINEERING.** The laws of electric and magnetic circuits and their application to Electrical Engineering. *Five hours, first semester (E. E.) SOPHOMORES.* PREREQUISITE: CREDIT OR ENROLLMENT IN M. M. 21.
21. **DIRECT CURRENT MACHINES.** The operating characteristics of direct current machines. *Three hours, second semester (E.E.) SOPHOMORES.* PREREQUISITE: E. E. 20.
30. **ELECTRONICS.** The theory, characteristics, and engineering application of electron tubes. *Three hours, second semester (E. E.) JUNIORS.* PREREQUISITES: PHYSICS 1 AND CREDIT OR ENROLLMENT IN E. E. 35 OR CREDIT IN E. E. 37.
31. **DIRECT CURRENT MACHINES.** A continuation of E. E. 21. *Two hours, first semester (E. E.) JUNIORS.* PREREQUISITE: E. E. 21.
32. **ELECTRICAL LABORATORY.** Direct current measurements and circuits and experimental determination of the characteristics of direct current machines. Laboratory Fee \$5.00. *Two hours, first semester (E. E.) JUNIORS.* PREREQUISITE: CREDIT OR ENROLLMENT IN E. E. 31.
33. **ELECTRICAL LABORATORY.** A continuation of E. E. 32 and including the experimental determination of the properties of alternating

\* Absent on leave, 1944-45.

- current circuits. Laboratory Fee \$5.00. *Two hours, second semester* (E. E.) JUNIORS. PREREQUISITES: E. E. 32 AND CREDIT OR ENROLLMENT IN E. E. 35.
34. ALTERNATING CURRENT THEORY. The mathematical and graphical analysis of current and voltage relationships in single phase and poly-phase circuits. *Three hours, first semester* (E. E.) JUNIORS. PREREQUISITES: PHYSICS 1, M.-M. 21-22 AND E. E. 20.
35. ALTERNATING CURRENT THEORY. A continuation of E. E. 34. *Three hours, second semester* (E. E.) JUNIORS. PREREQUISITE: E. E. 34.
36. DIRECT CURRENT CIRCUITS AND MACHINES. The laws of electric and magnetic circuits and the characteristics of direct current machines. Laboratory Fee \$2.50. *Four hours, first semester* (C. E. AND M. E.) JUNIORS. PREREQUISITES: M.-M. 21-22 AND PHYSICS 1.
37. ALTERNATING CURRENT CIRCUITS AND MACHINES. The laws of single phase and polyphase alternating current circuits and the characteristics of alternating current machines. Laboratory Fee \$2.50. *Four hours, second semester* (C. E. AND M. E.) JUNIORS. PREREQUISITE: E. E. 36.
40. ELECTRONICS LABORATORY. The experimental determination of the characteristics of electron tubes and a study of the circuits commonly used in the application of electronic devices. Laboratory Fee \$2.50. *One hour, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 30.
41. POWER TRANSMISSION. The principles of the design, construction, and operation of transmission and distribution system. *Three hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
42. ELECTRICAL LABORATORY. The experimental determination of the characteristics of alternating current circuits and machines. Laboratory Fee \$5.00. *Two hours, first semester* (E. E.) SENIORS. PREREQUISITES: E. E. 35 AND CREDIT OR ENROLLMENT IN E. E. 44.
43. ELECTRICAL LABORATORY. A continuation of E. E. 42. Laboratory Fee \$5.00. *Two hours, second semester* (E. E.) SENIORS. PREREQUISITES: E. E. 42 AND CREDIT OR ENROLLMENT IN E. E. 45.
44. ALTERNATING CURRENT MACHINES. The principles of design, construction and operation of alternating current machines. *Three hours, first semester* (E. E.) SENIORS. PREREQUISITES: E. E. 31 AND 35.
45. ALTERNATING CURRENT MACHINES. A continuation of E. E. 44. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 44.

46. WIRE COMMUNICATION. Network theory and the fundamental principles of wire communication systems. Laboratory Fee \$2.50. *Three hours, first semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
47. WIRE COMMUNICATION. A continuation of E. E. 46. Laboratory Fee \$2.50. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 46.
48. RADIO COMMUNICATION. The fundamental principles of radio communication systems. Laboratory Fee \$2.50. *Five hours, second semester* (E. E.) SENIORS. PREREQUISITE: E. E. 35.
49. POWER STATIONS. The Electrical Engineering features of steam, water and oil engine power plants. *Three hours, second semester*, SENIORS, ELECTIVE. PREREQUISITES: ENROLLMENT IN E. E. 45 OR CREDIT IN E. E. 37.
140. TRANSIENT PHENOMENA. A mathematical development of common voltage and current transients with experimental check by means of the oscillograph. Laboratory Fee \$2.50. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
141. SPECIAL TOPICS. Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines or systems. *Three hours, first semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.
142. SPECIAL TOPICS. A continuation of E. E. 141. *Three hours, second semester* (E. E.) SENIORS, ELECTIVE. PREREQUISITE: E. E. 35.

## MATHEMATICS AND MECHANICS

*Professors Bullard and Millington*

- A. SOLID GEOMETRY. A course required of those who do not present solid geometry as an entrance credit. Fee \$10.00. *Two hours, first semester* (ENG.) FRESHMEN. NO DEGREE CREDIT.  
*Professor Millington*
11. ALGEBRA, TRIGONOMETRY. College algebra, plane and spherical trigonometry. *Five hours, first semester*. (ENG.) FRESHMEN.
12. ANALYTIC GEOMETRY. Plane and solid analytic geometry. Continuation of Math. 11. *Four hours, second semester*. (ENG.) FRESHMEN.
- 21-22. CALCULUS. 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. *Three hours*. (ENG.) SOPHOMORES.

23. THEORETICAL MECHANICS (STATICS). The course includes a study of fundamental concepts, the resultant of a force system by graphical and analytical methods, conditions of equilibrium and the applications to cranes, trusses and flexible cables, followed by centers of gravity and moments of inertia. *Three hours, second semester* (ENG.) SOPHOMORES. PREREQUISITE: M.-M. 21.  
*Professor Bullard*
31. THEORETICAL MECHANICS (KINETICS). The course is a continuation of Statics treating the equations of motion of a body under the action of a force system, the principles of work and energy, impulse and momentum. *Three hours, first semester* (ENG.) JUNIORS.  
*Professor Bullard*
32. MECHANICS OF MATERIALS. The course includes a study of the behavior of elastic bodies, with particular attention to the beam, shaft and column, including simple stress and strain, combined stresses, the elastic curve, and strain energy. *Three hours, second semester* (ENG.) JUNIORS.  
*Professor Bullard*
33. DIFFERENTIAL EQUATIONS. Solution of ordinary differential equations, introducing operational methods. *Two hours, first semester.*
104. DIFFERENTIAL EQUATIONS. Solution of ordinary and partial differential equations and topics of advanced calculus especially useful in mathematical physics and engineering. *Three hours.*

## MECHANICAL ENGINEERING

*Professors Chapman and \*Lucarini; Mr. Batchelder.*

11. MECHANICAL DRAWING. Practice and development of proficiency in the use of drawing equipment. The work includes the use of instruments, lettering, sketching, inking, tracing and elementary projective drawing. Three laboratory periods. *Three hours, first semester.* REQUIRED (ENG.) FRESHMEN.
12. MECHANICAL DRAWING. Theory and application of orthographic projection, dimensioning, applications of conventions and standards, elementary detail, and assembly drawings of machines and structures. Three laboratory periods. *Three hours, second semester.* REQUIRED (ENG.) FRESHMEN.
23. MANUFACTURING PROCESSES. A laboratory course covering elementary principles in the fields of metal casting, machining, welding,

\* Absent on leave, 1944-45.



- and forming. Two laboratory periods. Fee \$5.00. *Two hours, first semester.* REQUIRED (M. E.) SOPHOMORES.
24. MANUFACTURING PROCESSES. A laboratory study of methods, jigs, fixtures, special tools and gauges with practice in their uses during manufacturing for interchangeable and progressive assembly. Two laboratory periods. Fee \$5.00. *Two hours, second semester.* REQUIRED (M. E.) SOPHOMORES.
25. ELEMENTS OF POWER ENGINEERING. An elementary course devoted to the study of laboratory apparatus and instruments as used for power plant tests. Also, the analysis of solid, liquid, and gaseous fuels, and the correlation of commercial specifications with the analysis and ultimate utilization of fuels. Two recitation and one laboratory periods. Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) SOPHOMORES. PREREQUISITE: CHEMISTRY 1.
32. KINEMATICS. The analysis of displacements, velocities, and accelerations in machines and the application of such analysis to cams, gears, and other mechanisms. Two recitation and one laboratory periods. *Three hours, second semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITES: M. E. 12 AND M.-M. 31.
33. SHOP PRACTICE. Advanced work in the fields of machining, wood working, welding or sheet metal fabrication according to the needs of the student. Especially adapted to those preparing for the teaching of Industrial Arts. Three laboratory periods. Fee \$7.50. *Three hours.* REQUIRED (IND. ED.) SENIORS. ELECTIVE. PREREQUISITE: M. E. 24.
35. THERMODYNAMICS. The fundamental principles of engineering thermodynamics and the application of these principles to heat engine, air compression, and refrigeration cycles. Three recitation periods. *Three hours, first semester.* REQUIRED (M. E.) AND (E. E.) JUNIORS. PREREQUISITES: PHYSICS 1 AND M.-M. 21 AND 22.
36. INTERNAL COMBUSTION ENGINES. The thermodynamic and mechanical principles of the design, operation and performance of spark ignition and Diesel engines. Two recitation and one laboratory periods. Fee \$2.50. *Three hours, second semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITE: M. E. 35.
38. POWER ENGINEERING. A short course in the fields of steam and internal combustion engine power. Analysis of the design, operation and performance of characteristic equipment. Two recitation and two laboratory periods. Fee \$5.00. *Four hours, second semester.* REQUIRED (E. E.) JUNIORS. PREREQUISITE: M. E. 35.

39. **INDUSTRIAL METALLURGY.** The fundamentals of ferrous and non-ferrous metallurgy. Physical and metallographic characteristics correlated with the theory and practice of industrial metallurgical processes. Two recitation and one laboratory periods. Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) JUNIORS. PREREQUISITES: CHEMISTRY 1 AND PHYSICS 1.
41. **MACHINE STRESS ANALYSIS.** This course includes the study and use of the mathematical and graphical methods suited to the analysis and determination of static and dynamic stresses in machine parts. Three recitation and one laboratory periods. *Four hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITES: M. E. 32 AND M.-M. 32.
42. **MACHINE DESIGN.** A study of the design of the elements of machines. Three recitation and one laboratory periods. *Four hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 41.
43. **INDUSTRIAL ENGINEERING.** This course is a study of the principles of management and their applications to industrial organizations and industrial operations. Two recitation and one laboratory periods. Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 24.
44. **FACTORY PLANNING.** The systematic analysis of the requirements of a factory for a specific purpose. Work includes the consideration of such items as location, plant design, equipment requirements, general layout and production planning. One recitation and two laboratory periods. *Three hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 43.
45. **AIR CONDITIONING.** The applications of the fundamental principles of thermodynamics in a study of the design and performance of air conditioning equipment and systems for residences, public buildings and industrial plants. Two recitation and one laboratory periods. Fee \$2.50. *Three hours, first semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 35.
47. **STEAM POWER PLANTS.** The study of the thermodynamic and mechanical principles of the design, installation, operation, and performance of steam power plant equipment. Two recitation and two laboratory periods. Fee \$5.00. *Four hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: M. E. 35.
48. **AERODYNAMICS.** The course includes the study of the application of the principles of the mechanics of fluids to the airplane, to fan

and propeller characteristics and to the flow of gases and vapors. Two recitation and one laboratory periods. Fee \$2.50. *Three hours, second semester.* REQUIRED (M. E.) SENIORS. PREREQUISITE: C. E. 47 AND 48.

49. SPECIAL PROBLEMS. A study and investigation on a topic or problem of special interest to the student. Formal submission of results in thesis form required. Problems must be approved by the Chairman of the Department before election of the course. *Meetings as arranged, two or three hours. First and second semesters.* ELECTIVE (M. E.) SENIORS BY PERMISSION.
50. SEMINAR. Meetings are devoted to discussions of the Mechanical Engineering Profession, the ethics, responsibilities and status of members of the Profession, and timely activities of present-day practice. Current issues of pertinent publications are used as collateral reading and as guides in the study and discussion of contemporary progress in the field. *Two hours, second semester.* REQUIRED (M. E.) SENIORS.
101. ADVANCED HEAT ENGINES. This is an advanced study in theoretical thermodynamics with applications in specific types of heat engines according to the interests of the students. *Three to six hours, first semester, second semester.*
102. VIBRATIONS IN MACHINES. An advanced course in the field of machine design with special emphasis on problems of vibrations. Topics considered include causes of vibrations, methods of study of vibratory motion, determination of vibration stresses, and methods of balancing and damping. *Three to six hours, first semester, second semester.*
103. RESEARCH. The work includes selection of a topic, reading, development of research program and submission of satisfactory thesis. *Three to six hours, first semester, second semester.*

## The College of Agriculture

The College of Agriculture performs three public functions: it teaches, it investigates, it disseminates. These three lines of work are carried out respectively by the College as such, by the Agricultural Experiment Station, and by the Agricultural Extension Service.

The College as such 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 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 126 semester hours of credit, exclusive of courses

required in Military Science and Physical Education. To insure a reasonable concentration in his field of interest, twenty-one of these hours must be selected by the student with the help of his faculty advisor. A minimum of twenty-four additional hours must be chosen from courses in the College of Agriculture. Electives should be so selected, in consultation with the advisor, as to insure a balanced and integrated education in Agriculture.

## AGRICULTURAL CURRICULUM

THE FRESHMAN YEAR			THE SOPHOMORE YEAR		
	1ST	2ND		1ST	2ND
	SEMESTER			SEMESTER	
Eng. Comp. (Eng. 1).....	3	3	Journalism (Eng. 15).....	3	...
Agr'l Math. (Math. B).....	3	3	*Public Speaking.....	...	3
Gen. Botany (Bot. 3).....	3	3	Chemistry (Chem. 23).....	3	3
Geology (Geol. 1).....	3	...	Elem. Economics (Econ. 1).....	3	3
Orientation (Gen. Agri. 1).....	...	3	*Physics.....	4	...
Elective.....	3	3	Microbiology (Bot. 11).....	...	3
Physical Education 1.....	1	1	Elective.....	3	3
Military Science 1 (Men).....	2	2	Physical Education 2.....	1	1
			Military Science 2 (Men).....	2	2
THE JUNIOR YEAR			THE SENIOR YEAR		
	1ST	2ND		1ST	2ND
	SEMESTER			SEMESTER	
Gen. Psychology (Psych. 1).....	3	...	Agri. & Civ. (Agr. Phil. 1).....	3	...
Pub. Problems (Agr. Ec. 5).....	...	3	Electives.....	...	...
Electives.....	...	...			

## 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. At the beginning of the sophomore year, the student may choose to pursue any one of the four options.

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. The Clothing, Textile, and Related Art option is especially designed for students who wish to enter the fields of costume design, interior decoration, or merchandising. The Food and Nutrition option is designed to prepare students for positions as dietitians in hospitals, colleges, or other institutions, as

\* Special courses, to be arranged.

nutrition or food specialists, or for positions as demonstrators or in commercial food firms.

## HOME ECONOMICS CURRICULA

THE FRESHMAN YEAR			THE SOPHOMORE YEAR		
	1ST SEMESTER	2ND SEMESTER		1ST SEMESTER	2ND SEMESTER
English Composition (Eng. 1)	3	3	Elem. Economics (Ec. 1)	3	3
European History (Hist. 3)	3	3	English 2 or 7	3	3
Inorganic Chem. (Chem. 22)	5	...	Gen. Psychology (Psych. 1)	3	3
Organic Chem. (Chem. 19)	...	5	Food Preparation (F.N. 20)	3	3
Orientation (G.H.E. 10)	1	1	Housing & Equip. (H.I.M. 20)	3	...
Applied Design (C.T. 11)	3	...	History of Art (G.H.E. 20)	...	3
Clothing Selection (C.T. 10)	...	3	*Clothing 1 (C.T. 20)	...	3
Household Physics (Phys. 2)	...	3	*Textiles (C.T. 21)	3	...
Physical Education 1	1	1	Physical Education 2	1	1
	<hr/> 16	<hr/> 19		<hr/> 19	<hr/> 19

THE JUNIOR YEAR		1ST SEMESTER	2ND SEMESTER
Human Physiology (Zool. 13)	...	3	...
Household Micro. (Bot. 13)	...	...	3
Amer. Govt. (Pol. Sci. 1)	...	3	3
Home Planning & Furn. (H.I.M. 21)	...	3	...
Meal Planning & Serv. (F.N. 32)	...	3	...
Home Mgt. (H.I.M. 30)	...	...	3
Dietetics (F. N. 32)	...	...	3
Nutrition (F. N. 33)	...	...	3

In addition to the courses listed, the several options require the following additional courses and electives as needed to complete a total of about eighteen hours each semester and 136 semester hours before graduation.

General Home Economics Option: in the first semester, Clothing 2 (C. T. 30) 3 hrs. and Clothing Economics (C. T. 33) 3 hrs.; in the second semester, Food Economics (F. N. 31).

Home Economics Education Option: in the first semester, Principles of Education (Ed. 1) 3 hrs.

Clothing, Textile, and Related Art Option: in the first semester, Journalism (Eng. 15) 3 hrs. and in alternate years Textile Analysis (C. T. 32) 3 hrs. or Clothing Economics (C. T. 33) 3 hrs.; in the second semester, in alternate years, History of Costume (C. T. 31) 3 hrs. and History of Furniture (H. I. M. 31) 3 hrs.

Food and Nutrition Option: in the first semester, Journalism (Eng. 15)

\* In the Food and Nutrition Option, these courses are replaced respectively by Biochemistry (Chem. 24) and Chemistry of Foods (Chem. 20).

3 hrs. and Educational Psychology (Ed. 3) 3 hrs.; in the second semester, Food Economics (F. N. 31) 3 hrs.

## THE SENIOR YEAR

## GENERAL HOME ECONOMICS OPTION

	1ST SEMESTER	2ND SEMESTER
Home Mgt. House (H.I.M. 41) .....	3 or 3	
Child Care (F.R. 40) .....	3	...
Child Development (F.R. 41) .....	3	...
Family Relation. (F.R. 42) .....	3	...
Related Arts (C.T. 43) .....	...	3
Electives .....	9-12	9-12

## HOME ECONOMICS EDUCATION OPTION

	1ST SEMESTER	2ND SEMESTER
Child Care (F.R. 40) .....	3	...
Child Development (F.R. 41) .....	3	...
Family Relation. (F.R. 42) .....	3	...
Meth. of Teach. (H.E.E. 40) .....	2	...
Electives .....	5-8	...
<i>BLOCK A, 7 or 8 wks.</i>		
Home Mgt. House (H.I.M. 41) .....	...	3
Related Arts (C.T. 43) .....	...	3
Spec. Problems (H.E.E. 42) .....	...	2-3
<i>BLOCK B, 7 or 8 wks.</i>		
Student Teach. (H.E.E. 41) .....	...	7
Meth. of Tech. (H.E.E. 40) .....	...	1

## CLOTHING, TEXTILE, RELATED ART OPTION

	1ST SEMESTER	2ND SEMESTER
Home Mgt. House (H.I.M. 41) .....	3 or 3	
Related Arts (C.T. 43) .....	...	3
Costume Design (C.T. 42) .....	3	...
Adv. Cloth. Prob. (C.T. 40) .....	3	3
Home Plan. & Furn. (H.I.M. 21) .....	3	...
Family Relation. (F.R. 42) .....	3	...
Electives .....	0-6	9-12

## FOOD AND NUTRITION OPTION

	1ST SEMESTER	2ND SEMESTER
Home Mgt. House (H.I.M. 41) .....	3 or 3	
Diet in Disease (F.N. 44) .....	3	...
Quan. Food Prep. (F.N. 41) .....	3	...
Insti. Mgt. (H.I.M. 40) .....	...	3
Exper. Food. Prep. (F.N. 40) .....	...	3
Food Demonstra. (F.N. 42) .....	...	1
Marketing & Purch. (H.I.M. 42) .....	3	...
Electives .....	6-9	8-10

## COURSES OF INSTRUCTION

Due to the war emergency the number of courses offered is limited. In general, full descriptions are here given only for courses actually offered at present, the others being listed by title. Full descriptions of these may be obtained on request from the Dean of the College of Agriculture. In any year, courses chosen from those listed by title 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

*Professors \*Hitchcock, Williams, Adams, and Carter*

1. FARM MANAGEMENT. The organization and operation of a successful farm business. Lectures, laboratory. *Six hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS.
2. FARM CREDIT AND ACCOUNTS.
3. MARKETING FARM PRODUCTS. The distribuion of farm products and problems involved. Lectures, laboratory. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
4. MARKETING DAIRY PRODUCTS.
5. PUBLIC PROBLEMS OF AGRICULTURE. Price fluctuation as it affects farming, agricultural legislation, land use, costs of local government, and other public questions of special interest to farmers. Lectures, laboratory. *Three hours, second semester.* REQUIRED (AG.). JUNIORS.
6. AGRICULTURAL PRICES.
7. AGRICULTURAL COOPERATION. The nature and development of farmers' business associations, their organization, financing, and business management. Lectures, laboratory. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1944-45.)
8. AGRICULTURAL BUSINESS MANAGEMENT.
9. RURAL SOCIOLOGY.
10. DIRECTED STUDY.
101. SEMINAR.

\* Deceased November 8, 1944.



## AGRICULTURAL EDUCATION

*Professor Martin; \*Mr. Park*

1. RURAL EDUCATION. The organization of rural education, with emphasis on aims, principles, and methods. *Three hours, first semester.*
2. VOCATIONAL METHODS.
3. EXTENSION METHODS. Methods and technique of extension teaching. Two lectures, one laboratory. *Three hours, second semester.*  
PREREQUISITE: AGRICULTURAL EDUCATION 1.
4. ADULT EDUCATION.
5. TEACHING FARM SHOP.
6. DIRECTED STUDY.

## AGRICULTURAL ENGINEERING

1. GENERAL FARM ENGINEERING. An introductory course including units on gas engines, farm structures, concrete, farm water supply, and farm mechanics. Lectures, laboratory. Fee \$2.50. *Three hours, second semester.*
2. FARM STRUCTURES.
3. FARM ELECTRICITY.
4. DAIRY PLANT ENGINEERING.
5. FARM POWER UTILIZATION. The use of power as applied to farm machinery and equipment. Lectures, laboratory. Fee \$2.50. *One and one-half hours, first half of second semester.* ELECTIVE TO JUNIORS AND SENIORS.
6. SERVICING FIELD MACHINERY. Practical training in the care and repair of common farm machinery. Lecture, laboratory. Fee \$2.50. *One and one-half hours, second half of second semester.* ELECTIVE TO JUNIORS AND SENIORS.

\* Military leave.

## AGRICULTURAL PHILOSOPHY

*Professor Dykhuizen*

1. SOCIAL PHILOSOPHY OF AMERICAN AGRICULTURE. A preliminary survey of European backgrounds; the history of American thought in respect to agriculture in this country; the more important agricultural problems of today in the light of American democratic thought. *Three hours, first semester.* REQUIRED (AG.) SENIORS.

## AGRONOMY

*Professor Miller*

1. GENERAL FIELD CROPS. Introduction to field crops common in Vermont and throughout the United States, including science, practice, and uses. Lectures, laboratory, field trips. Fee \$2.50. *Three hours, first semester.*
2. FORAGE AND PASTURE CROPS.
3. PLANT BREEDING.
4. ADVANCED FIELD CROPS. Field inspections of farms practising 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. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: AGRONOMY 1. (Offered in alternate years, 1945-46.)
5. SOIL PHYSICS. Texture, structure, moisture, and temperature studies; soil origin and classification. Lectures, laboratory, field trips. Fee \$2.50. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
6. SOIL CHEMISTRY. Soil reaction, effect of major and minor elements, organic matter, biology. Lectures, laboratory. Fee \$2.50. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: AGRONOMY 5.
7. FERTILIZERS.
8. SOIL CONSERVATION.
9. DIRECTED STUDY.
10. SEMINAR.

## ANIMAL AND DAIRY HUSBANDRY

*Professors Ellenberger, Herreid, Newlander, Allen.*

1. INTRODUCTORY DAIRY SCIENCE. 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. *Three hours, second semester.*
2. LIVE STOCK. Types, breeds, market classes, and fundamentals of judging. Lectures, recitations, and practice. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN.
3. DAIRY BACTERIOLOGY.
4. CHEMISTRY AND TESTING OF DAIRY PRODUCTS. Composition and properties of dairy products; tests for adulterations, pasteurization, fats and other solids, including Mojonnier methods. Lectures, recitations, laboratory. Fee \$3.00. ELECTIVE EXCEPT TO FRESHMEN.
5. ANIMAL NUTRITION. Nutrients, their function and utilization, and requirements for growth, reproduction, lactation, etc. Lectures, recitations. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS.
6. FEEDS AND FEEDING.
7. ADVANCED STOCK JUDGING.
8. JUDGING DAIRY PRODUCTS.
9. BREEDS AND BREEDING. Practical applications of the principles of genetics to the breeding of farm animals. Lectures, recitations, problems. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: PRECEDED OR ACCOMPANIED BY BOTANY 15. (Offered in alternate years, 1945-46.)
10. HORSE AND MEAT ANIMAL MANAGEMENT.
11. DAIRY HERD MANAGEMENT. Successful management of the dairy herd. Lectures, recitations, problems. *Three hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1945-46.)
12. MEATS AND HOME BUTCHERING.
13. ANATOMY AND PHYSIOLOGY.
14. DISEASES OF FARM ANIMALS. Causes, symptoms, and effects of animal diseases. Preventive measures and treatment. Lectures, reci-

tations, clinics. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. (Offered in alternate years, 1945-46.)

15. MARKET MILK. Quality production, processing, and distributing. Lectures, recitations, laboratory. Fee \$5.00. *Three hours, first semester.* ELECTIVE TO SENIORS. PREREQUISITES: A. D. H. 3, 4 (except by special arrangement).
16. DAIRY MANUFACTURES.
117. PHYSICAL CHEMISTRY OF MILK AND MILK PRODUCTS.
118. DIRECTED STUDY.
119. SEMINAR.

## BOTANY

The courses in Botany are listed under the College of Arts and Sciences.

## FORESTRY

*\*Professor Adams*

1. CONSERVATION OF NATURAL RESOURCES.
2. WOODLOT FORESTRY.
3. MENSURATION AND WOODLOT MANAGEMENT.
4. SILVICS.
5. WOOD TECHNOLOGY.
6. LUMBER INDUSTRY.
7. BIOLOGICAL STATISTICS.

## GENERAL AGRICULTURE

*Dean Varney*

1. ORIENTATION. The subject matter fields in agriculture and the opportunities and requirements for those specializing in them and in general agriculture. *Three hours, second semester.* REQUIRED (AG.) FRESHMEN.

\* Absent on leave: Military Service.

## HOME ECONOMICS

*Professors King, Bailey, LeBaron, Doughty, Underwood, Rawson, Larson, and Holbrook; Dr. Russell; Misses Anderson, M. Brown, L. Brown, and Mrs. Kirkness.*

## GENERAL HOME ECONOMICS

10. ORIENTATION. A study of the problems of adjustment to college life and a survey of professional opportunities in Home Economics. *One hour.* REQUIRED (H. E.) FRESHMEN. *Professor King*
20. HISTORY OF ART. A survey of the history of art, including contemporary trends, with emphasis on art appreciation. *Three hours, second semester.* REQUIRED (H. E.) SOPHOMORES. *Mrs. Mills*

## CLOTHING AND TEXTILES

10. CLOTHING SELECTION. A study of the artistic, psychological and economic problems involved in the selection and care of clothing. *Three hours, second semester.* REQUIRED (H. E.) FRESHMEN. *Professor Larson*
11. APPLIED DESIGN. Development of individual good taste and self-expression through the study and practical application of the principles of design and color. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (H. E.) FRESHMEN. *Professor Rawson*
20. CLOTHING 1. A study of garment construction through the use of commercial patterns, of dress design and selection for the individual and of care and repair of clothing. Laboratory Fee \$2.50. *Three hours, second semester.* REQUIRED (GENL., ED., TEX.) SOPHOMORES. *Professor Rawson*
21. TEXTILES. A study of standard fabrics, including fiber content, construction, design and finishes; special emphasis on consumer-buyer problems. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (GENL., ED., TEX.) SOPHOMORES. *Professor Larson*
30. CLOTHING 2. A study of commercial patterns and flat pattern designing; fundamental principles of dress selection and construction and special dress finishes applied to wool, silk, and rayon problems. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (GENL., ED., TEX.) JUNIORS. *Professor Rawson*
31. HISTORY OF COSTUME. Costume from ancient times to the present day with opportunities for creative expression for dress and stage.

*Three hours, second semester, alternate years.* REQUIRED (GENL., TEX.) JUNIORS. Professor Larson

32. TEXTILE ANALYSIS. Physical, microscopical and chemical analysis of textile fabrics; application of testing processes; textile legislation. Laboratory Fee \$2.50. *Three hours, first semester, alternate years.* REQUIRED (TEX.) JUNIORS. Professor Larson
33. CLOTHING ECONOMICS. Consumer buying problems in clothing and textiles. *Three hours, first semester, alternate years.* REQUIRED (GENL., C. T.) JUNIORS. Professor Larson
40. ADVANCED CLOTHING PROBLEMS. The principles of draping; tailoring; remodeling and ready-to-wear alteration problems. Laboratory Fee \$2.50 per semester. *Three hours.* REQUIRED (TEX.) SENIORS. Professor Larson
42. COSTUME DESIGN. The relation of color, principles of design, and texture to dress design, experienced through various mediums and techniques. Laboratory Fee \$2.50. *Three hours, first semester.* REQUIRED (TEX.) SENIORS. Professor Rawson
43. RELATED ARTS. The development of sensitivity to beauty in everyday living, including crafts, art experiences in dress, home and school laboratory furnishings and arrangements; community interests. *Three hours, second semester.* REQUIRED (GENL., TEX.) SENIORS. Professor Rawson

## FAMILY RELATIONSHIPS

40. CHILD CARE AND HOME CARE OF THE SICK. The care of the child from pre-natal life through infancy and childhood and of the family during illness. *Three hours, first semester.* REQUIRED (GENL., ED.) SENIORS. Dr. Russell; Miss L. Brown
- \*41. CHILD DEVELOPMENT. A study of 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. *Three hours, first semester.* REQUIRED (GENL., ED.) SENIORS. Professor Holbrook; Mrs. Kirkness
- \*42. FAMILY RELATIONSHIPS. A study of the origin, development, structure, and functioning of the family in relation to present-day home and social problems. *Three hours, first semester.* REQUIRED (GENL., ED.) SENIORS. Mrs. Kirkness

\* Elective to Juniors and Seniors in Arts.

## HOME AND INSTITUTIONAL MANAGEMENT

20. HOUSING AND EQUIPMENT. An analysis of adequate housing. Problems concerning the construction, selection, use, care and repair of equipment. *Three hours, first semester.* REQUIRED (H. E.) SOPHOMORES. *Professor Doughty*
21. HOME PLANNING AND FURNISHING. An analysis of floor plans and the study of the selection and arrangement of furnishings. *Three hours, second semester.* REQUIRED (H. E.) JUNIORS. *Miss Rawson*
30. HOME MANAGEMENT. A study of the problems involved in organizing and controlling the expenditure of time, energy, and money used in managing a home. *Three hours, second semester.* REQUIRED (H. E.) JUNIORS. *Professor Doughty*
31. HISTORY OF FURNITURE. Study of furniture from ancient times to the present day. *Three hours, first semester, alternate years.* REQUIRED (C. T.) JUNIORS. *Professor Larson*
40. INSTITUTION MANAGEMENT. Problems in the management of different types of institutions. *Three hours, second semester.* REQUIRED (NUTR.) SENIORS. *Professor Underwood*
41. HOME MANAGEMENT HOUSE. Practical application of homemaking problems and group living through seven weeks' residence. Laboratory Fee \$56.00, 1943-44. *Three hours, first or second semester.* REQUIRED (H. E.) SENIORS. *Professor Doughty*
42. MARKETING AND PURCHASING. Purchasing of food and equipment for institutions; housekeeping and floor plans. *Three hours, first semester.* REQUIRED (NUTR.) SENIORS. *Professor Underwood*

## HOME ECONOMICS EDUCATION

40. HOME ECONOMICS TEACHING. Modern educational principles and methods applied to the teaching of homemaking in the junior and senior high schools, including special problems of departmental administration. *Two hours, first semester; one hour, second semester.* REQUIRED (ED.) SENIORS. *Professor LeBaron*
41. STUDENT TEACHING. Observation and student teaching in junior and senior high schools, including discussions and individual conferences on teaching problems. Practice Fee \$10.00 (returnable under certain conditions). *Three hours, second semester.* REQUIRED (ED.) SENIORS. *Professor LeBaron; Miss M. Brown*

42. SPECIAL PROBLEMS. Individual investigation and report on specific problems. *Two or three hours, second semester.* REQUIRED (ED.) SENIORS. Professor LeBaron

# FOOD AND NUTRITION

20. FOOD PREPARATION. A study of the scientific principles and fundamental processes underlying food preparation with practical applications. Laboratory Fee \$5.00 per semester. *Three hours.* REQUIRED (H. E.) SOPHOMORES. Professor King; Miss Anderson
30. MEAL PLANNING AND SERVICE. A laboratory course in the preservation, and in the planning, buying, preparing and serving of food. Laboratory Fee \$5.00. *Three hours, first semester.* REQUIRED (H. E.) JUNIORS. Professor Bailey; Miss Anderson
31. FOOD ECONOMICS. A study of the recent trends in food processing, of the agencies controlling production and marketing of foods and of consumer buying problems. *Three hours, second semester.* REQUIRED (GENL., NUTR.) JUNIORS. Miss Anderson
- \*32. DIETETICS. Food requirements of normal adults and children. Nutritive value of food materials, application to selection of adequate diets at different cost levels. *Three hours, second semester.* REQUIRED (ALL) JUNIORS. Professor Bailey
33. NUTRITION. Principles of normal nutrition. *Three hours, second semester.* REQUIRED (GENL., ED., NUTR.) JUNIORS. Professor Bailey
40. EXPERIMENTAL FOOD PREPARATION. A study of methods and techniques used in experimental work in foods. Independent laboratory work in the solving of problems in food preparation. Laboratory Fee \$5.00. *Three hours, second semester.* REQUIRED (NUTR.) SENIORS. Professor King
41. QUANTITY FOOD PREPARATION. Participation in the purchase, preparation, and service of food in large quantities. Laboratory Fee \$5.00. *Three hours, second semester.* REQUIRED (NUTR.) SENIORS. Professor Underwood
42. FOOD DEMONSTRATIONS. A study of the purposes and techniques of demonstrations in relation to food preparation and nutrition, with applications to teaching, extension and business. Laboratory Fee \$2.50. *One hour, first semester.* REQUIRED (NUTR.) SENIORS. Professor Doughty
44. DIET IN DISEASE. A study of the dietetic treatment of impaired digestive and metabolic conditions. *Three hours, first semester.* REQUIRED (NUTR.) SENIORS. Professor Bailey

\* Elective to Juniors and Seniors in Arts.



45. READINGS ON NUTRITION. A critical survey of the literature on recent developments in nutrition. *Three hours, second semester.*  
ELECTIVE (NUTR.) SENIORS. *Professor Bailey*

## HORTICULTURE

*Professor Blasberg*

1. GENERAL HORTICULTURE. An introductory course including a study of the adaptation of horticultural plants to soil and climatic conditions. Lectures, recitations, laboratory. Fee \$2.50. *Three hours, second semester.*
2. PLANT PROPAGATION.
3. SMALL FRUITS AND VEGETABLES. An introduction to the scientific facts and principles involved in the culture of small fruits and vegetables. Lectures, recitations, laboratory. Fee \$2.50. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN. PREREQUISITE: HORTICULTURE 1.
4. ELEMENTS OF FRUIT GROWING.
5. SYSTEMATIC POMOLOGY.
6. ECONOMIC ENTOMOLOGY.
7. DIRECTED STUDY.

## POULTRY HUSBANDRY

*Professor Henderson*

1. GENERAL POULTRY HUSBANDRY. The principles of poultry husbandry and their application to general farm conditions. *Three hours, first semester.*
2. POULTRY FARM MANAGEMENT. Farm layouts, cost accounting, business opportunities, and a study of successful poultry farms. Inspection trip of one week required, the cost to be pro-rated. *Three hours, first semester.* ELECTIVE EXCEPT TO FRESHMEN. PREREQUISITE: POULTRY HUSBANDRY 1.
3. INCUBATION AND BROODING.
4. POULTRY HOUSING.
5. POULTRY DISEASES. Common poultry diseases and troubles. *Three*

*hours, second semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: POULTRY HUSBANDRY 1. (Offered in alternate years, 1944-45.)

6. POULTRY FEEDING. The feeding of poultry for egg production, growth, and fattening. Practice in compounding rations. Experimental work and feeding problems. *Three hours, first semester.* ELECTIVE TO JUNIORS AND SENIORS. PREREQUISITE: POULTRY HUSBANDRY 1.
7. PROCESSING AND PACKAGING POULTRY PRODUCTS.
8. POULTRY SEMINAR.
9. DIRECTED STUDY.

## The College of Medicine

The College of Medicine of the University of Vermont is one of the oldest institutions of its kind in the United States. For over a century it has served the State and the Nation by sending out its graduates to every part of the Union.

The College of Medicine is a member of the Association of American Medical Colleges and is on the approved list of the Council on Medical Education and Hospitals of the American Medical Association. The excellent record of the graduates of this college and the high standing of the institution is, in large measure, the result of the intensive instruction given in small sections in lecture, laboratory, and clinic.

### REQUIREMENTS FOR ADMISSION

Enrollment in the College of Medicine has been restricted in order to maintain the highest scholastic standards. At the present time forty students are selected for the entering class.

A minimum of two 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 amount of premedical and other subject matter, and the quality of the record.
2. The score reported in the Aptitude Test, adopted by the Association of American Medical Colleges.
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 carried out 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, Physiological Chemistry, Histology, Embryology and Neuro-anatomy.

*In the Second Year* courses are given in Pharmacology, Pathology, Bacteriology 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, Therapeutics, 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, em-

phasis 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 and manikin exercises in Obstetrics 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.

### 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. **PHYSICAL EDUCATION (BASIC).** 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. *Two hours.*  
**REQUIRED ACADEMIC FRESHMAN MEN.**

*Professors Post and Evans*

2. **PHYSICAL EDUCATION (INTERMEDIATE).** 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.**

*Professors Post, Gardner, Evans*

\* Absent on leave: Military Service.

3. ADVANCED COURSE IN ADMINISTRATION AND FOOTBALL COACHING (not offered in 1944-45).
4. ADVANCED COURSE IN HUMAN MECHANICS AND COACHING OF BASKETBALL, BASEBALL, AND TRACK (not offered in 1944-45.)

### 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. Russell, Harwood, and Levinson.*

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, and Horseback 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

*First Lieutenant* FRANK S. RYAN, INFANTRY, A. U. S.

Professor of Military Science and Tactics

*First Sergeant* CHARLES F. PARKER, DEML, U. S. ARMY.

*Master Sergeant* ARNOLD DODD, DEML, U. S. ARMY.

*Staff Sergeant* FRANK LAWLOR, DEML, U. S. ARMY

Instructors in Military Science and Tactics

*Technician 5th Grade* EDWARD E. PUTNAM, JR., DEML, U. S. ARMY

Administrative Instructor in Medico-Military Science

THE SENIOR INFANTRY ROTC UNIT

*First Lieutenant* 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 1 and 2 as a prerequisite to graduation from the University. They receive eight semester hours

credit for these two basic courses and these credits become an integral part of the record of the student and are counted toward graduation.

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 and 2 covering the Freshman and Sophomore years, comprise the "Basic Course" and Military Science 3 and 4 offered during the Junior and Senior years comprise the "Advanced Course."

The Advanced Course R. O. T. C., normally elective to Juniors and Seniors who are selected by the Professor of Military Science and Tactics and the President, has been temporarily suspended for the duration of the war and six months thereafter.

#### MILITARY SCIENCE COURSES

1. FRESHMAN BASIC. Leadership, Military Courtesy, Discipline and Customs of the Service, Military History and Policy, Principles of Organization, Sanitation, and First Aid, Rifle Marksmanship, and Map Reading. *Three hours.* REQUIRED OF ALL MALE FRESHMEN.
2. SOPHOMORE BASIC. Characteristics of Infantry Weapons, Scouting and Patrolling, Musketry, Combat Principles of Small Units, Leadership. *Three hours.* 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.

During the present war, it is expected that all physically qualified male medical students will be called to active duty upon receiving the degree of M.D. and upon completion of one year of internship. 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.

At the present time properly qualified professional students now in the military service are selected under the Army Specialized Training program for return to Medical College. Under this plan physically and mentally qualified students receive instruction on a full pay military status, with tuition, text books, and certain other expenses paid by the Federal Government. It is the present intention of the War Department to resume R. O. T. C. training in full after the war.

\* Suspended for the duration.

# Register, 1944-45

## RESIDENT GRADUATE STUDENTS

\*Marguerite Anderson, B.S. (AMERICAN INTERNATIONAL COLLEGE), *Psychology*, Springfield, Mass.

Gertrude Ellen Cone, A.B. (UNIVERSITY OF ROCHESTER), *History*, Keeseville, N. Y.

John Conrad Hartnett, B.S. (ST. MICHAEL'S COLLEGE), *Biochemistry*, Winooski

Anne Squire Hayer (Mrs.), B.S. (UNIVERSITY OF VERMONT), *Mathematics*, Burlington

Rose Mary Miller, B.S. (MIDDLEBURY), *Education*, South Peacham

\*Elizabeth Paulsen, A.B. (SKIDMORE), *Chemistry*, Danville

## GRADUATE STUDENTS IN THE SUMMER SESSION

Stella Marion Adams, B.S. (NEW HAMPSHIRE), *Psychology*, Hebron, N. H.

Harriet Leonard Bickford, B.S. (SIMMONS), *Home Economics*, Glover

Helen Ruth Bolger, B.S. (NEW YORK UNIVERSITY), *English*, Montclair, N. J.

Anna Morgan Brady, B.S. (BRIDGEWATER STATE TEACHERS COLLEGE), *English*, New Bedford, Mass.

Dorothy Roy Brown, A.B. (MOUNT HOLYOKE), *Education*, Essex Junction

John Ralph Burnett, B.S. (VERMONT), *Education*, Wilmington

Anna Viola Burns, B.E. (CASTLETON), *Education*, Fair Haven

Norma Beatrice Carder, B.S. (VERMONT), *Education*, Newport

Alden Jesse Carr, A.B. (BROWN), M.A. (BOSTON UNIVERSITY GRADUATE SCHOOL), *Education*, Concord

Elizabeth Alice Clark, A.B. (MOUNT HOLYOKE), *Philosophy*, Fitchburg, Mass.

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.

• Sister Mary Regis Conlon, A.B. (COLLEGE OF ST. ROSE), *Education*, Rutland

Angela Margaret Crowley, B.S. (NORTH ADAMS STATE TEACHERS COLLEGE), *Education*, North Adams, Mass.

Doris Mae Crozier, A.B. (TRINITY), *Political Science*, Montpelier

Alton C. Currier, B.S. (NEW HAMPSHIRE), *Education*, Fairlee

Frank Stanley Devine, B.S. (VERMONT), *Education*, Barre

John Clark Donahue, B.A. (MANHATTAN), *Political Science*, Burlington

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## STUDENTS

For meaning of abbreviations, see page 66.

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 June Beverly Abell, '48; *NEd*; Burlington  
 Edwin Brown Adams, '48; *Med*; Burlington  
 Philip Adler, '48; *LA*; New Britain, Conn.  
 Lawrence Bernard Ahrens, '48; *LA*; Burlington  
 Donald Thomas Akey, '46; *Med*; Burlington  
 Marjorie Ina Alexander, '46; *LA*; Irasburg  
 Eleanor Marie Allen, '47; *LA*; Springfield, Mass.  
 Lois Elizabeth Allen, '48; *HE*; South Hero  
 Lawrence Atwood Ambrose, '46; *ME*; Woodstock  
 Anthony Anable, Jr., '48; *LA*; Peterborough, N. H.  
 Barbara Smith Anderson, '46; *LA*; Montclair, N. J.  
 Betty Cornelia Anderson, '45; *LA*; New York, N. Y.  
 Eleanor Elaine Anderson, '46; *HE*; Essex Junction  
 Janice Lucy Anderson, '47; *ElEd*; Craftsbury  
 Marguerite Anderson, *PG*; Springfield, Mass.  
 Rachel Anderson, *UnclSp*; Tooele, Utah  
 Sarah Ann Andrews, '48; *LA*; Gloucester, Mass.  
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 Ann Louise Arnold, '48; *LA*; Brockton, Mass.  
 Carolyn Esther Aronson, '46; *LA*; Proctor  
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 Sister Mary Assumption, *UnclSp*; Burlington

- Allan Gray Attwater, '47; *LA*; Whitestone, L. I., N. Y.
- Richard Raymond Audette, '48; *ME*; St. Albans
- Gertrude Barbara Austin, '45; *MT*; Brattleboro
- Arten Arakel Avakian, '48; *Ag*; Townshend
- Jeanne Carolyn Ayers, '47; *HE*; Essex Junction
- Clifford Elliott Backup, '45; *Med*; Jericho
- Edna Frances Dole Backup (Mrs.), '46; *Med*; Peterborough, N. H.
- Phillip Henry Backup, '46; *Med*; Jericho
- Jeanette Blanche Badger, '48; *SED*; Hardwick
- Marjory Ellen Bagby, '48; *LA*; Needham Heights, Mass.
- Elaine Delia Bailey, '45; *SED*; Waterbury
- Lois Marie Baker, '47; *ELED*; Brandon
- Roger Arnold Baker, '48; *CE*; South Vernon, Mass.
- Ruth Marie Baker, '46; *LA*; Irvington, N. J.
- Esther Mae Ballard, '45; *LA*; Milton
- Aglaia Christy Ballas, '46; *LA*; Brattleboro
- Elizabeth Helen Barber, '48; *LA*; Patchogue, N. Y.
- Arthur Joseph Barker, '48; *Med*; Somerville, Mass.
- Charles Hyde Barnes, '48; *LA*; Bennington
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- Joan Grace Barrett, '48; *LA*; Burlington
- Harriet Natalie Barron, '46; *LA*; Roxbury, Mass.
- Robert Cota Barrows, '48; *LA*; North Adams, Mass.
- Rose Mary Barry, '48; *ELED*; Bellows Falls
- Wendell Arthur Barwood, '48; *Bus*; Norwich
- Gloria Anne Bashaw, '47; *SED*; Burlington
- Theodore Evander Battles, '48; *Bus*; Milington, N. J.
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- Alexander Eli Bayer, '48; *Med*; New Britain, Conn.
- Ann Elizabeth Bayley, '48; *LA*; Washington, D. C.
- Ellen Ruth Beach, '48; *ELED*; Jericho Center
- Allene Elizabeth Beattie, '46; *Sec*; St. Johnsbury
- Barbara Beattie, '48; *LA*; Mountain Lakes, N. J.
- Anna Elizabeth Beaulac, '48; *HE*; Randolph
- Gerhard Theodor Beck, '45; *Med*; Rutland
- Barbara Joyce Beecher, '48; *ELED*; Bennington
- Janice Mildred Beers, '46; *ELED*; Burlington
- Mary Lesley Bell, '46; *LA*; Barre
- Marion Ella Belville, '48; *ELED*; Barre
- Virginia Rae Benedict, '46; *HE*; Burlington
- Catharine Pauline Benjamin, '47; *LA*; Stamford, N. Y.
- Patricia Eriksen Bennett, '47; *LA*; Manchester, N. H.
- Ruth Marie Benson, '48; *ELED*; Townshend
- Ida Mae Benton, '47; *CT*; Saxtons River
- Ernest Eugene Benway, '48; *ME*; Winooski
- Minnie Ferguson Bice, '48; *Sec*; Dover, Del.
- Beatrice Bickford, '47; *LA*; Grafton, Mass.
- Marion Bickford, '48; *ELED*; Orleans
- Audrey Irene Bidwell, '48; *LA*; Wells River
- Joyce Emma Bingham, '48; *LA*; St. Albans
- Virginia Lois Bingham, '45; *LA*; St. Albans
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- Burton Melvin Blechman, '48; *LA*; New York, N. Y.
- Thelma Bloom, '47; *LA*; Hartford, Conn.
- Stella Bloomberg, '47; *LA*; Burlington
- Howard Philip Bloomenthal, '48; *LA*; Burlington
- John Douglas Boardman, '48; *Med*; Burlington
- Mary Alberta Boardman, '46; *Sec*; Burlington
- Betty Buda Bohne, '48; *LA*; Shoreham
- George Arthur Bonner, '45; *Med*; Westport, N. Y.
- Anastasia Boretos, '47; *LA*; Rutland
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- Marie Antoinette Boutin, '45; *SED*; Bennington

- Edward Robert Bove, '46; *Med*; Rutland  
 Robert Murray Boyarsky, '48; *LA*; Burlington  
 Saul Boyarsky, '46; *Med*; Burlington  
 Helen Elizabeth Boyd, '48; *HE*; Woodbury, Conn.  
 Charlotte Minnie Boynton, '48; *ElEd*; South Pomfret  
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 George Henry Bray, '47; *Med*; New Britain, Conn.  
 Mary Patricia Brayton, '47; *LA*; Poultney  
 Mary Evelyn Breen, '48; *LA*; Waterbury  
 Pauline Corrine Breen, '48; *ME*; Jericho  
 Carolyn Lucille Brehmer, '46; *Sec*; Rutland  
 Mary Elizabeth Bresnehan, '47; *HE*; Proctor  
 Marion Pearl Briggs, '48; *ElEd*; New Haven  
 Mary Agnes Brisbin, '47; *ElEd*; Waterbury  
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 Rosemary Bristol, '48; *LA*; West Hartford, Conn.  
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 Marilyn Edith Brower, '48; *Cb*; Keypoint, N. J.  
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 Leola Isabelle Brown, '46; *ElEd*; Burlington  
 Constance Wheeler Brownell, '46; *LA*; Burlington  
 Eleanor Palmer Brownell, '46; *MusEd*; Burlington  
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 ington, Conn.  
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 lington  
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 bury  
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 liamstown  
 Joyce Elizabeth Byington, '45; *SEd*; Char-  
 lotte  
 Laura Mae Byington, '48; *HE*; Charlotte  
 Lucienne Virginia Cadorette, '48; *SEd*;  
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 ton  
 Helen Elizabeth Cayey, '48; *LA*; Burling-  
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 Marilyn Elizabeth Cheney, '46; *ElEd*; Rut-  
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- Dorothy Clark, '48; *LA*; Newfane
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- Florence Lola Davis, '48; *HE*; Hardwick
- Dorothy Ann Day, '46; *HE*; Springfield
- Llewella Belle Day, '48; *LA*; West Rutland
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- Margaret Clarke Donahue, '45; *SED*; Pearl River, N. Y.
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- Mary Margaret Downey, '48; *LA*; Rockland, Mass.
- Betty Ann DuBois, '47; *HE*; Teaneck, N. J.
- Vivian Sylvia DuBrule, '48; *ELED*; Burlington
- Sister Mary Gladys Duffany, *UnclSp*; Burlington
- Ernest Albert Dunbar, Jr., '45; *Med*; Barre, Mass.
- William Martin Dunn, '45; *LA*; Plattsburg, N. Y.
- Mary Jean Allerton Dunsmore, '46; *LA*; Swanton
- Herbert Ashley Durfee, Jr., '48; *Med*; Burlington
- Delmer Dennis Durgin, '47; *Med*; Central Islip, N. Y.
- Martha Lillian Durgin, '47; *LA*; Enosburg Falls
- Marian Irene Dustin, '45; *SED*; Essex Junction
- Doris Isabelle Dwyer, '47; *LA*; Bristol
- James Warren Dykens, '45; *Med*; Worcester, Mass.
- Francelia Mae Connor Earle (Mrs.), '45; *HE*; Middlesex
- Jean Louise Earle, '48; *LA*; New York, N. Y.
- Wendell George Earle, '46; *Ag*; East Hardwick
- Jean Orrilla Easton, '48; *NED*; Shoreham
- Jean Elizabeth Smith Eddy (Mrs.), '45; *HE*; Forest Hills, N. Y.
- Winston Milo Eddy, '45; *Med*; Burlington
- David Arthur Edgar, Jr., '47; *Cb*; Sherburne Center
- Phyllis Mary Edgerton, '46; *HE*; Burlington
- Alice Gloria Edwards, '45; *LA*; Brooklyn, N. Y.
- Lenore Eichel, '47; *HE*; Brooklyn, N. Y.
- Lois Jean Eimer, '47; *Cb*; Jackson Heights, N. Y.
- Rodney Walter Eldridge, '47; *LA*; Wolcott
- Wilfred Theodore Elliott, '46; *Med*; St. Johnsbury
- Madaleen Jacobs Ellis, '48; *ELED*; Brookfield
- Ruby Mary Ellsworth, '48; *LA*; Lyndonville
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- Karl Wayne Erwin, '48; *Med*; Burlington
- Ruth Margaret Erwin, '48; *HE*; Burlington
- Ruth Joan Esser, '48; *Ag*; Washington, D. C.
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- Irene Forestelle Fahey, '46; *LA*; Bridgeport, Conn.
- Glory Ann Farmer, '46; *LA*; Fair Haven
- Rebecca Joyce Farnham, '47; *MusEd*; Morrisville
- Audrey Joyce Farnsworth, '48; *LA*; Morrisville
- Betty Doris Farnsworth, '45; *LA*; Morristown, N. J.
- Kathleen Mae Farnsworth, '48; *NED*; Richford
- Lorraine Mary Farrell, '46; *MusEd*; Shelburne
- Inez Elizabeth Farrow, '48; *HE*; Groton
- Leona Marie Farrow, '48; *HE*; Groton
- Esther Wheeler Favor (Mrs.), *SpMusEd*; Burlington
- Florence Elizabeth Favreau, '47; *HE*; West Townshend
- 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.
- 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.

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 Beverly Grace Fifield, '46; *EEd*; Newport  
 Renee Wilma Finberg, '48; *LA*; Brooklyn, N. Y.  
 Barbara Muriel Fiske, '45; *HE*; Burlington  
 Pauline Hazelton Fitch, '45; *HE*; St. Johnsbury  
 Mary Jane Fleming, '48; *LA*; Stroudsburg, Pa.  
 Alice Flemming, '45; *Sec*; Lonsdale, R. I.  
 William Arthur Flood, '47; *Med*.; North Bennington  
 Lorraine Philimen Flory, '48; *Sec*; Fair Haven  
 Sarah Jo Flournoy, '45; *Sec*; Kenmore, N. Y.  
 Ilene Flower, '48; *LA*; Hartland Four Corners  
 Joyce Madeleine Flynn, '47; *LA*; Newton, Mass.  
 Suzanne Forest, '47; *LA*; Waterbury  
 Lester Frank, '46; *Med*; Burlington  
 Dorothy Elizabeth Frazer, '47; *HE*; Long Beach, N. Y.  
 Arlene Mary Fritz, '47; *LA*; Hartford, Conn.  
 Catherine Campbell Frost, '48; *HE*; Woodstock  
 John Riess Fuller, '46; *Med*; Burlington  
 Terence Frederick Gage, '45; *Med*; Vergennes  
 Rodney Gordon Galbraith, '47; *Bus*; South Norwalk, Conn.  
 Sybil Bryant Gardner, '48; *LA*; Patchogue, N. Y.  
 Joan Garvin, '48; *HE*; South Orange, N. J.  
 Eileen May Gates, '48; *MusEd*; North Bennington  
 Harriet Mary Gebbie, '45; *HE*; Greensboro  
 Mildreth Louise George, '46; *LA*; Riverside, Conn.  
 Russell Francis Gervais, '46; *Med*; Winooski  
 Michael Thomas Giacomarra, '48; *Med*; South Ozone Park, N. Y.  
 Leo Paul Giardi, '48; *Med*; Hartford, Conn.  
 Edyth Gibson, '47; *LA*; Bayville, N. Y.  
 Kenneth George Gibson, '47; *Bus*; St. Johnsbury  
 Rachael May Giddings, '46; *EEd*; Ludlow  
 Betsy May Gillinder, '46; *HE*; Port Jervis, N. Y.  
 Arthur Emanuel Gillman, '48; *LA*; Woodmere, N. Y.  
 Claire Shirley Glass, '48; *LA*; Burlington  
 Mona Lee Glasston, '48; *LA*; Linden, N. J.  
 Eugene Andrus Glysson, '48; *CE*; Fair Haven  
 Gwendolyn Marie Goddard, '47; *LA*; Nashua, N. H.  
 Judith Mae Goldblatt, '47; *LA*; New York  
 Joan Goldbloom, '45; *LA*; Brooklyn, N. Y.  
 Stanley Lloyd Golden, '48; *LA*; Stamford, Conn.  
 Earl Hill Goldstein, '48; *LA*; Lynn, Mass.  
 Julian John Goodman, '48; *Med*; Boston, Mass.  
 Joanne Louise Goulart, '48; *LA*; New Bedford, Mass.  
 Myrtle Ellen Gray, *UnclSp*; Burlington  
 Jerald Friedman Greenberg, '48; *LA*; Bennington  
 Mary Thorne Greene, '46; *Cb*; Morrisville  
 Michael Greenfield, '46; *LA*; New York, N. Y.  
 Helen Mae Greenwood, '48; *HE*; Bridgeport, Conn.  
 Beverley Grier, '48; *LA*; Birmingham, Mich.  
 Paul Edward Griffin, '47; *Med*; Herkimer, N. Y.  
 Diana Lolomi Griffis, '48; *EEd*; Vergennes  
 Katherine Griswold, '47; *Sec*; Bennington  
 Marion June Grody, '48; *LA*; West Hartford, Conn.  
 Don Allen Guinan, '48; *Med*; Northampton, Mass.  
 Audrey Elizabeth Gutterson, '48; *EEd*; Ryegate  
 Elizabeth Mildred Guyette, *UnclNED*; Pittsford  
 Theresa Josephine Guzowski, '48; *LA*; Northampton, Mass.  
 David Powell Hackett, '47; *LA*; Washington, D. C.  
 Mary Elizabeth Hageman, '48; *HE*; Verona, N. J.  
 Ruth Arnold Haigh, '48; *LA*; Burlington  
 Marjorie Ann Hale, '47; *LA*; Newbury  
 Warren Kidder Hale, '48; *ME*; East Ryegate  
 Beverly Mina Hall, '48; *LA*; Waterbury  
 Marjorie Anne Hall '45; *HE*; Hardwick

- Nancy Eleanor Hall, '46; *LA*; Burlington  
 Verna Louise Hall, '48; *MT*; Brattleboro  
 Virginia Lou Hamel, '48; *LA*; South Rye-  
 gate  
 Jacquelyn Laurel Hansen, '46; *LA*; North-  
 field  
 Marguerite Hazel Hansen, *UnclSp*; Bur-  
 lington  
 Althea Jeanne Hapgood, '48; *HE*; Malone,  
 N. Y.  
 Mary Louise Hard, '48; *Ned*; Manchester  
 Depot  
 Jacqueline Jeanne Hardgrove, '48; *HE*;  
 Amityville, N. Y.  
 Mary Elizabeth Hardy, '48; *LA*; Schenec-  
 tady, N. Y.  
 David Sumner Harlow, '48, *LA*; South  
 Royalton  
 Mary Elizabeth Harmon, '45; *Eled*; North  
 Bennington  
 Jayne Ethel Harrington, '48; *LA*; Burling-  
 ton  
 Natalie Ruth Harris, '47; *LA*; Hartford,  
 Conn.  
 Shirley Dorothy Harris, '47; *LA*; Brook-  
 lyn, N. Y.  
 John Conrad Hartnett, *PG*; Winooski Park  
 Janet Verde-Mont Hartung, '47; *SED*; Mil-  
 lerton, N. Y.  
 Grace Avery Hathaway, '47; *LA*; Upper  
 Montclair, N. J.  
 Alice Elizabeth Haugh, '45; *Eled*; Rutland  
 Kathleen Marie Haus, '47; *LA*; Brattleboro  
 Richard Carman Hay, '46; *Med*; Burling-  
 ton  
 Anne Squire Hayer (Mrs.), *PG*; Burling-  
 ton  
 Mary Celestine Hayes, '47; *Ch*; Bellows  
 Falls  
 Peggy Helen Hayens '46; *SED*; Burlington  
 Merle Ruth Hayward, '48; *Eled*; Marsh-  
 field  
 Lloyd Norman Hazen, '46; *Med*; Rich-  
 mond  
 Eloise Genevieve Heath, '47; *LA*; Burling-  
 ton  
 Hester Elizabeth Heath, '45; *LA*; Barre  
 Roslyn Hecker, '48; *LA*; Springfield, Mass.  
 Frank Hedrich, '46; *LA*; Union City N. J.  
 Muriel Jane Heininger, '48; *MusEd*; Barre  
 Esther Ruth Hellerman, '47; *LA*; Brook-  
 lyn, N. Y.  
 Katherine Ann Hennessey, '45; *Eled*; Bel-  
 lows Falls  
 Shirley Tucker Hibbard, '45; *LA*; New  
 Britain, Conn.  
 Raymond Dyer Higgins, Jr., '48; *Med*;  
 Dennysville, Me.  
 Elizabeth Anne Hill, '47; *MusEd*; Bristol  
 Thomas Murray Holcomb, '47; *Med*; Bur-  
 lington  
 Arthur Clement Holden, '45; *LA*; Bur-  
 lington  
 John Kenneth Holden, '46; *Ag*; Burlington  
 Marilyn Holden, '47; *MusEd*; New Haven  
 Dorothy May Hollender, '48; *Eled*; Me-  
 tuchen, N. J.  
 Margaret Ann Holloway, '47; *LA*; Newark,  
 Md.  
 Miriam Lorimer Holm, (Mrs.), *UnclSp*;  
 Cadillac, Mich.  
 Doris Leigh Holmberg, '48; *LA*; New  
 Rochelle, N. Y.  
 Ruth Anne Holmes, '45; *HE*; Burlington  
 Marie Terese Hood, '48; *LA*; Staten Island,  
 N. Y.  
 Anne Louise Hoos, '46; *LA*; Union, N. J.  
 Iola Wanda Hopkinson, '46; *Sec*; Burling-  
 ton  
 Lloyd Malcolm Horlick, '48; *Med*; Everett,  
 Mass.  
 Jeanne Trowbridge Hotchkiss, '45; *LA*;  
 New Preston, Conn.  
 Joanne Howard, '48; *LA*; Eggertsville,  
 N. Y.  
 Jeanne Laura Howland, '48; *LA*; Brandon  
 Stedman George Huard, '46; *Med*; Wi-  
 nooski  
 Janice Pauline Hubbard, '48; *LA*; Jeffer-  
 sonville  
 Christine Ruth Hughes, '45; *HE*; Brattle-  
 boro  
 Donald Walter Humphreys, '47; *Med*; Ben-  
 nington  
 Roderick Julius Humphreys, '48; *Med*;  
 Bennington  
 Julia Lucy Hurley, '48; *LA*; Spring Valley,  
 N. Y.  
 Eleanor Hurwitz, '48; *Ch*; Chelsea, Mass.  
 Alma Georgia Husen, '47; *LA*; Short Hills,  
 N. J.  
 Audrey Jean Hutchins, '48; *LA*; Malone,  
 N. Y.

- Barbara Brooks Hutchins, '48; *HE*; Union, Me.  
 Charles Irwin '46; *Med*; New London, Conn.  
 Patrick Anthony Izzo, '46; *Med*; Quechee  
 Isabel Lucy Jackson, '46; *LA*; Jericho  
 Julian Lucius Jackson, '48; *Ag*; Waterville  
 Thelma Adria Jacobs, '45; *HE*; St. Albans  
 Ruth Doris Jandorek, '47; *Cb*; Brooklyn, N. Y.  
 Lorraine Alberta Jaques, '47; *HE*; Huntington  
 Barbara Ruth Jeffers, '48; *NEd*; Westfield, N. J.  
 Eleanor Dawley Jenkins, '45; *HE*; Maplewood, N. J.  
 Ruth Dorothy Jepson, '45; *Sec*; Walpole, Mass.  
 George Arthur Jimmo, '48; *LA*; Burlington  
 Betty Jean Johnson, '46; *EEd*; Burlington  
 Jane Amanda Johnson, '48; *LA*; Waterbury, Conn.  
 Mae Nina Johnson, '47; *EEd*; Burlington  
 Mary Ann Johnson, '48; *LA*; Cadillac, Mich.  
 Maurice James Johnson, '48; *Bus*; Portland, Me.  
 Charles William Jones, '45; *Med*; Haverhill, Mass.  
 Edwin Francis Jones, '48; *Med*; Oakland, Calif.  
 Patricia Marion Jones, '48; *EEd*; Winchendon, Mass.  
 Wallace Davies Jones, Jr., '47; *LA*; Meriden, N. H.  
 Louise Hovey Jordan, '47; *LA*; Burlington  
 Ruth Kimball Jordan, '45; *SEd*; Burlington  
 Priscilla Skinner Joslin, '47; *EEd*; Waitsfield  
 Georgia Kafalas, '45; *ME*; Newburyport, Mass.  
 Lenore Kahane, '47; *LA*; Forest Hills, N. Y.  
 Lorraine Heath Kaplan, '47; *LA*; Hartford, Conn.  
 Louise Benner Karraker, '47; *LA*; Lewisburg, Pa.  
 Victor Leonidies Karren, '45; *Med*; Yonkers, N. Y.  
 Pauline Kartalos, '47; *LA*; Clinton, Mass.  
 Milton Reuben Kaufman '47; *Med*; Mountaintdale, N. Y.  
 Bernard Marvin Kaye, '47; *Med*; Brandon  
 Cecelia Mary Carolyn Kearns, '48; *HE*; Bennington  
 Rita Claire Keefe, '48; *EEd*; Barre  
 Thomas Joseph Keighley, '46; *Med*; Burlington  
 Carolyn Elizabeth Kelley, '48; *SEd*; Wallingford  
 Charlotte Frances Kelley, '48; *HE*; Pittsburgh, Pa.  
 Elizabeth Lyons Kelley (Mrs.), '46; *LA*; Kent's Hill, Me.  
 Harry James Kelly, '45; *Med*; Northampton, Mass.  
 Stanley Marshal Kemler, '46; *Med*; Medford, Mass.  
 David Samuel Kenet, '47; *Med*; Springfield  
 Barbara Louise Kennon, '45; *HE*; San Antonio, Tex.  
 Avis Kenyon, '45; *LA*; Richmond  
 Frances Clara Kernstock, '48; *LA*; Mt. Vernon, N. Y.  
 Rollin Grant Keyes, '48; *ME*; St. Johns, Que.  
 Barbara Louise Kilborn, '47; *NEd*; Newport  
 Cecil Harry Kimball, '48; *Med*; Burlington  
 Mary Josephine Kinerson, '47; *MT*; West Danville  
 Albert Clark Kinney, Jr., '46; *Med*; Hardwick  
 Betsy Ella Kipp, '47; *SEd*; Orleans  
 Priscilla Alden Klain, '48; *EEd*; Stelton, N. J.  
 Freda Koble, '45; *LA*; Witherbee, N. Y.  
 Elinor Konowitz, '46; *LA*; Brookline, Mass.  
 Helen Maria Korpi, '46; *EEd*; Jamaica  
 Alan Jay Kraft, '48; *LA*; Forest Hills, N. Y.  
 Mary Ann Kudiesy, '45; *EEd*; Burlington  
 Mary Elizabeth Kuruc, '46; *LA*; Bridgeport, Conn.  
 Nancy Ladd, '47; *LA*; Belmont, Mass.  
 Shirley Mae Lampman, '45; *MusEd*; St. Albans  
 Marion Cornelia Lamson, '48; *LA*; Chester  
 Gwendolyn Alice Lane, '48; *NEd*; Windsor  
 Jean Hooker Lanphere '46; *LA*; Wells River

- John Clifford Lantman, '48; *LA*; Hinesburg
- Marie Jeanne Lapierre, '48; *LA*; Northampton, Mass.
- Amelia Lillian LaRose, '48; *EEd*; Shelburne
- Florence Gertrude Larrabee, '48; *Cb*; Hartland
- Margaret Beryle Larrabee, '48; *LA*; Hardwick
- Barbara Fuller Law, '46; *HE*; Springfield, Mass.
- Frances Jean Lawliss, '47; *LA*; Richford
- Marie Elizabeth Lawlor, '48; *LA*; Burlington
- Ermont Miller Lawrence, *SpAg*; Winooski
- Joan Rita Leach, '48; *LA*; Indianapolis, Ind.
- Marilyn Alice Leathers, '48; *LA*; Nashua, N. H.
- Herman Alexander LeBow, '45; *Med*; Burlington
- Jacqueline Marion LeMay, '47; *Cb*; Burlington
- Harriet Lenore Levenson, '48; *CT*; Stamford, Conn.
- Joan Rita Levine, '47; *LA*; Newark, N. J.
- Gladys Alicia Levine, '47; *LA*; Cos Cob, Conn.
- Norma Renee Levine, '48; *LA*; Holyoke, Mass.
- Samuel Levine, '45; *Med*; Burlington
- Betty Rose Levy, '48; *LA*; New York, N. Y.
- Lionel Lewis, '48; *LA*; Far Rockaway, N. Y.
- Marion Ruth Lewis, '47; *EEd*; Woodstock
- Bernice Lieberman, '45; *LA*; Medford, Mass.
- Evelyn Limenfeld, '48; *Sec*; New York, N. Y.
- Doris Josephine Lindecrantz, '47; *HE*; Worcester, Mass.
- Mary Ursula Lindsay, '45; *LA*; Burlington
- Robert William Linehan, '47; *Med*; Glens Falls, N. Y.
- Lois Julia Linn, '48; *MT*; New Britain, Conn.
- Joseph Nicholas Lioni, '45; *Med*; Proctor
- Miriam Lipman, '46; *LA*; West Hartford, Conn.
- Mary Jane Little, '46; *Bus*; Rochester, N. Y.
- James Andrew Long, '48; *Med*; Bristol
- Yolanda Ann Lopardo, '48; *LA*; North Adams, Mass.
- Dorothy Margaret Loughery, '45; *MT*; New Haven, Conn.
- Phyllis Elmira Lowe, '45; *Sec*; Milton, Mass.
- Dorothy Ann Lowell, '48; *LA*; Berlin, Conn.
- Albert Brownold Lowenfels, '48; *Cb*; White Plains, N. Y.
- Peggy Marie Lucas, '45; *LA*; Washington, D. C.
- Lorraine Winifred Luce, '45; *LA*; Waterbury
- Anne Therese Lundergan, '48; *LA*; Bennington
- Jacqueline McCormick, '46; *LA*; St. Albans
- Howard Hodgson MacDougall, '46; *Med*; Hammononton, N. J.
- Kathleen Leora McFeeters, '45; *SED*; Franklin
- John Francis McGarry, '46; *Med*; Proctor
- Rita Catherine McGarry, '47; *HE*; Proctor
- Barbara Bronson McGeever, '47; *HE*; Beacon Falls, Conn.
- James Bishop McGill, '46; *Med*; St. Johnsbury
- Kathryn May McGillicuddy, '46; *LA*; Burlington
- John Joseph McGrath, '46; *Med*; Adams, Mass.
- Harmon Jack Machanic, '46; *Med*; Burlington
- Muriel Gloria McKee, '45; *HE*; St. Johnsbury
- Edith Elsie McLaren, '47; *Sec*; Balboa, Canal Zone
- Melvin Saunders McLeod, Jr., '48; *Bus*; Melrose, Mass.
- Audrey Johnson MacNab (Mrs.), '48; *LA*; Houston, Tex.
- Anne Kathryn McNamara, '46; *HE*; Burlington
- Harry Cyril McNamara, '47; *Med*; Valatie, N. Y.
- Barbara Alice McNeil, *UnclNEd*; Vergennes

- Jane Frances McNeill, '47; *LA*; Beacon, N. Y.
- Donald Jude MacPherson, '48; *Med*; Lynn, Mass.
- Patricia Kathryn Magner, '48; *LA*; Rutland
- June Shirley Parker Malek (Mrs.), '45; *Sec*; Plainfield, N. J.
- Peter Saltonstall Mallett, '48; *LA*; Garden City, N. Y.
- Crystal Ellen Malone, '47; *Sec*; Washington, D. C.
- John Wilbur Manchester, *UnclSp*; Takoma Park, Md.
- Millicent Cecelia Mandel, '47; *LA*; Port Chester, N. Y.
- Gilbert Manheim, '46; *Med*; Rutland
- Richard Charles Manjoney, '47; *LA*; Bridgeport, Conn.
- Vincent August Manjoney, '47; *Med*; Bridgeport, Conn.
- Mary Gretchen Manning, '47; *LA*; New York N. Y.
- Betty Kellogg Mansfield, '45; *LA*; Verona, N. J.
- Maxine Louise Margolis, '48; *LA*; Waterbury, Conn.
- Rose Margulis, '47; *Eled*; Burlington
- Robert Jordan Maroney, '48; *Eled*; Winoski
- Judith Baird Marquis, '45; *LA*; Flushing, N. Y.
- William Marsa, '48; *LA*; Bradley Beach, N. J.
- Shirley Louise Marsh, '48; *NEd*; Pittsford
- Winifred Marsh, *UnclSp*; Burlington
- Joyce Mildred Marx, '48; *LA*; Burlington
- Richard Peter Mascolo, '48; *LA*; St. Albans, N. Y.
- Don Gale Mason, '48; *LA*; Starksboro
- Inez Adelaide Matarrese, '46; *LA*; Flushing, N. Y.
- Phyllis Arline Mattoon, '48; *SEd*; Chelsea
- David Lincoln Maxham, '48; *LA*; Woodstock
- Philip Wallace Mayo, '47; *Med*; Durham, N. H.
- Frances Helen Mayville, '45; *HE*; Milton
- Marian Lucy Melby, '45; *HE*; Andover, N. J.
- Betsy Mercelis, '48; *HE*; Plainfield, N. J.
- June Delight Merrihew, '46; *Eled*; Burlington
- Everett Perkins Merrill, '48; *Ag*; Craftsbury
- Marion Maynard Merrill, '47; *LA*; Burlington
- Richard Francis Merrill '48; *EE*; Burlington
- Sara Jean Merwin, '47; *Sec*; Rutherford, N. J.
- Albert Clinton Metcalf, '48; *Ag*; Burlington
- Joanna Jeanne Metcalf, '45; *Med*; Waterbury
- Edwin David Meyers, '48; *Med*; Manchester Depot
- Alice Lynette Miller, '46; *HE*; Greensboro
- Audrey Ellen Miller, '48; *LA*; Burlington
- Margaret Elizabeth Miller '46; *Sec*; Burlington
- Rose Mary Miller, *PG*; South Peacham
- Marilyn Mills, '48; *LA*; West Hartford, Conn.
- Charles Riddel Milne, '47; *LA*; Barre
- Mary Elizabeth Mitiguy, '47; *Sec*; Burlington
- Elizabeth Gregory Moffett, '46; *SEd*; Provincetown, Mass.
- Dorothy Monell '48; *Eled*; Burlington
- Julia Ellen Montgomery, '48; *LA*; Morrisville
- William Wayne Montgomery, '47; *Med*; West Rutland
- Mildred Caroline Moody, '48; *LA*; Burlington
- Shirley Maynard Moore, *UnclNEd*; Middlebury
- Barbara Frances Morgan, '46; *Eled*; Bennington
- James Patrick Moriarty '47; *Med*; Springfield, Mass.
- Olive Mae Morris '47; *LA*; Poultney
- Robert William Morris '46; *Bus*; Vergennes
- Clyde Robert Morron, '47; *Med*; Rutland
- Catherine Lillian Morse, '46; *SEd*; West Stewartstown, N. H.
- Merle Joyce Moulton, '48; *Eled*; Shelburne
- Florence Avery Mueller, '48; *HE*; Great Neck, N. Y.
- Claire Rosemary Muldoon, '48; *Sec*; St. Albans

- Thomas Patrick Mullaney, Jr. '46; *Med*; Barton  
 Gunther Thomas Muller, '48; *Ag*; Flushing, N. Y.  
 Margaret Hazen Muller (Mrs.), *UnclSp*; Burlington  
 Beverly June Murray, '48; *ElEd*; Rutland  
 Helen May Murray, '45; *HE*; Richmond  
 Rachel Alberta Murray, '46; *HE*; Charlotte  
 Elisabeth Mary Naess, '46; *MusEd*; Ludlow  
 Ronald Howard Neal, '47; *Med*; Laconia, N. H.  
 James Ryder Neary, '47; *Med*; Burlington  
 Shirley Ellen Needham, '45; *HE*; Boston, Mass.  
 Janette Mitchell Nelson, '45; *ElEd*; East Ryegate  
 Marjorie Lou Nelson, '47; *LA*; Woodstock  
 Barbara Jean Newlander, '48; *HE*; Burlington  
 Aileen Margaret Nichols, '48; *HE*; Towaco, N. J.  
 John Edwin Nichols, '46; *Med*; Rutland  
 Lois Holyoke Niles, '45; *ElEd*; Bennington  
 Mary Helen Nisun, '47; *LA*; Middlebury  
 Ann Leffingwell Noble, '46; *HE*; Bethel  
 Bethia Brown Noble, '45; *HE*; Benson  
 Brian Edward Nolan, '48; *Med*; Newton Highlands, Mass.  
 Robert Kay Nolan, '47; *Med*; Norwich, Conn.  
 Mildred Edith Norrie, '48; *Sec*; Barre  
 Marjorie Jane Nutting, '45; *HE*; Woodstock  
 Rita Saint John O'Brien, '48; *CT*; White Plains, N. Y.  
 Robert Emmett O'Brien, '45; *Med*; Winoski  
 Violet Beatrice O'Brien, '46; *LA*; Rutland  
 Merton Miles Ogden, Jr., '48; *LA*; Rutland  
 Elaine Annette Oling, '45; *CT*; Brooklyn, N. Y.  
 Evelyn Louise Olsen, '47; *NED*; Burlington  
 Lisa Marie Olsson, '47; *HE*; Camp McCain, Miss.  
 Theo Eileen Orr, '48; *HE*; Vershire  
 Doris Mabel Ostergren, '46; *LA*; Cobalt, Conn.  
 Guy Milton Page, Jr., '46; *LA*; Burlington  
 Harold Gordon Page, '45; *Med*; South Ryegate  
 Phyllis Woodbury Page, '48; *LA*; Burlington  
 Richard Alton Paine, '48; *Cb*; St. Johnsbury  
 Pauline Mildred Palin, '48; *NED*; Derby Line  
 Teresa Mary Paquin, '48; *ElEd*; St. Albans  
 Douglas Gabriel Parizeau, '47; *LA*; Westfield, N. J.  
 Blanche Lena Parker, '48; *HE*; Norwich  
 Gilbert Harold Parker, '48; *Ag*; East Wallingford  
 James Winford Parker, II, '48; *LA*; Burlington  
 Marion Christine Parker, '48; *ElEd*; Montpelier  
 Richard Harold Parker, '45; *ME*; Rochester  
 Sally Springer Parker '48; *LA*; Boston, Mass.  
 Gerald Francis Parkhurst, '46; *Med*; Bennington  
 Joan Parkhurst, '48; *HE*; West Hartford, Conn.  
 Charles Emery Parmalee, *UnclSp*; Burlington  
 Kenneth Arnold Parmelee, '47; *Med*; Stratford, Conn.  
 Barbara Elizabeth Parrott, '48; *HE*; Burlington  
 Helen Laurette Partridge, '46; *LA*; West Hartford, Conn.  
 Shirley Mae Partridge '48; *LA*; Winchester, N. H.  
 John Cochrane Patten, '47; *Med*; Claremont, N. H.  
 Marion Elizabeth Patterson '47; *CT*; Willsboro, N. Y.  
 Elinor Betty Paul, '48; *LA*; Albany, N. Y.  
 Elizabeth Paulsen, *PG*; Danville  
 Malcolm Jack Paulsen, '48; *Med*; Danville  
 Houghton Dean Pearl, '47; *Med*; Burlington  
 Ann Sargent Pearsons, '47; *LA*; Ludlow  
 Clifford Atherton Pease, Jr., '45; *Med*; Burlington  
 Donald Edward Pease, '47; *ME*; Forestville, Conn.  
 Mary Gertrude Pease, '47; *LA*; Bethel  
 Sonia Myrtle Perkins, '46; *Sec*; Brockton, Mass.



- Grace Lucile Perry, '46; *LA*; Burlington  
 Katherine Shedd Perry, '45; *LA*; East  
 Greenwich R. I.  
 Martha Janice Perry, '46; *EIEd*; St. Albans  
 John Hollister Perry-Hooker, '47; *Med*;  
 Wells River  
 Carol Lou Peterson, '48; *LA*; West Engle-  
 wood, N. J.  
 Kathleen Patricia Phelps, '47; *EIEd*; Essex  
 Junction  
 Jeanne Phillips, '45; *Bus*; Milford, Pa.  
 Eileen Margaret Pickett, '47; *CT*; Glens  
 Falls, N. Y.  
 Mary-Louise Pierce, '47; *LA*; Montpelier  
 Elizabeth Jean Pierson, '48; *EIEd*; Brad-  
 ford  
 Eschol Gladys Pixley, '48; *LA*; South  
 Strafford  
 William John Plankey, '48; *ME*; Spring-  
 field, Mass.  
 Jay Roger Plimpton, '46; *Med*; Harrison,  
 N. Y.  
 Thomas Rider Plowright, '46; *Med*; Goffs-  
 town, N. H.  
 Elaine Hattie Plumley, '48; *HE*; St. Johns-  
 bury  
 Suzanne Ruth Poljacik, '48; *NEd*; Flor-  
 ence  
 Deena Selma Pord '47; *LA*; Malden, Mass.  
 Ruth Macauley Post, '47; *SEd*; Burlington  
 Alice May Pouloupoulos, '48; *LA*; Spring-  
 field, Mass.  
 Barbara Nettie Powers, '46; *SEd*; Brattle-  
 boro  
 Norma Kathleen Prescott, '47; *EIEd*; St.  
 Johnsbury Center  
 Patricia Mary Prescott, '48; *EIEd*; Ran-  
 dolph Center  
 Phyllis Ann Prescott, '48; *EIEd*; Randolph  
 Center  
 Janice Elaine Preston '45; *Sec*; Burlington  
 Shirley Geraldine Price '46; *Med*; Spring-  
 field  
 Vera Tiffany Prince, '45; *LA*; Montclair,  
 N. J.  
 Glenna Marie Proctor, *UnclSp*; Burlington  
 Elsinor Carolyn Prouty, '47; *MT*; Burling-  
 ton  
 Rayelen Bruce Prouty, '45; *HE*; West  
 Hartford, Conn.  
 Ronda Helen Prouty, '47; *HE*; West Hart-  
 ford, Conn.  
 Ethel Evelyn Provost '48; *NEd*; North-  
 field  
 Margaret Louise Putnam '48; *LA*; Bethel  
 Clara Henrietta Ramsdell, '45; *EIEd*; Bur-  
 lington  
 Stanley Melvin Rapoport, '47; *Med*; New  
 York, N. Y.  
 Lita Rappaport, '48; *LA*; Mt. Vernon,  
 N. Y.  
 Armonie Monica Rasines, '45; *CT*; Barre  
 Alberta Martha Read, '46; *HE*; East Fair-  
 field  
 John Francis Reagan, Jr., '48; *LA*; Med-  
 ford, Mass.  
 Dorrit Genevieve Reed, '47; *EIEd*; Mont-  
 pelier  
 Irene Catherine Reed, '46; *LA*; Burlington  
 Florence Esther Reid, '46; *SEd*; Burlington  
 Irene Marcella Reitnauer, '46; *LA*; Tena-  
 fly, N. J.  
 Gretchen Relyea, '48; *LA*; Berlin, Conn.  
 Beatrice Rosellen Raymond, '47; *CT*;  
 Watertown, Conn.  
 Gwendolyn Muriel Richardson, '48; *HE*;  
 Montreal, Canada  
 Frances Riefberg, '47; *LA*; New York,  
 N. Y.  
 Claire Alene Riggs, '48; *NEd*; Richmond  
 Doris Jeanne Rindler, '45; *LA*; New York,  
 N. Y.  
 Robert George Ripper, '48; *Cb*; Vergennes  
 Elizabeth Manning Ritchie, '45; *Sec*; Glen  
 Rock, N. J.  
 Edith Paula Robbins, '47; *Ag*; New York,  
 N. Y.  
 Jane Wolcott Robbins, '48; *LA*; Schenec-  
 tady, N. Y.  
 Elizabeth Thissell Roberts, '46; *LA*; Ar-  
 lington, N. J.  
 Charlotte Esther Robinson, '45; *LA*; Ac-  
 cord, N. Y.  
 Harriet Mary Robinson, *UnclSp*; Essex  
 Junction  
 John Christie Robinson, '45; *Med*; Bland-  
 ford, Mass.  
 Mary Louise Robinson, '46; *LA*; Burling-  
 ton  
 Mildred Gladys Rogers, '47; *EIEd*; Ran-  
 dolph  
 Marie Josephine Rolleri '45; *LA*; Bridge-  
 port, Conn.

- Elizabeth Teresa Rome, '46; *MusEd*; Dobbs Ferry, N. Y.
- Virginia Elizabeth Rose, '45; *LA*; Bellows Falls
- Robert Myer Rosenberg, Jr., '47; *Bus*; Burlington
- Marion Eva Rosenhain, '47; *LA*; Forest Hills, N. Y.
- Abraham William Rosenman, '47; *LA*; Burlington
- Kathleen Grace Rosoff, '48; *LA*; Morristown, N. J.
- Anita Ross '47; *LA*; Burlington
- David George Rousseau, '45; *Med*; Grand Isle
- Elinor Mary Rowden, '47; *LA*; Wells River
- Alice Annette Rowe, '45; *LA*; Manchester Center
- Margaret Anne Rowell, '48; *LA*; Newport
- Louis Michael Rozek, '46; *Med*; Berlin, N. H.
- Elizabeth Ann Rublee, '47; *HE*; Newport
- Marjorie Lillian Rumph, '47; *LA*; Atlantic Beach, L. I., N. Y.
- Edwin Orvis Russell, '48; *Ag*; Bristol
- Marylee Eliza Russell, '46; *LA*; Burlington
- Joseph Nicholas Russo, '45; *Med*; Hartford, Conn.
- Jane Ann Rutter, '48; *HE*; Burlington
- Jean Margaret Ryan '47; *LA*; Brattleboro
- Margaret Mary Ryan, '48; *LA*; Enosburg Falls
- George Lewis Saiger, '48; *Med*; Burlington
- Virginia Georgiana St. Germain, '46; *LA*; Berlin, N. H.
- John Ellery St. Peter, '47; *LA*; Charlotte
- Natalie Jane Salls, '48; *NEd*; East Hartford, Conn.
- Ruth Lillian Sauermann, '48; *HE*; West Hartford, Conn.
- Florence Hecht Savin (Mrs.), '45; *LA*; Brooklyn, N. Y.
- Sanford Savin, '45; *Med*; Bridgeport, Conn.
- Sydel Schlomowitz, '47; *LA*; Taunton, Mass.
- 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, N. Y.
- Ruth Elizabeth Schoppe, '46; *LA*; Washington, D. C.
- William Emil Schumacher, '45; *Med*; Laurelton, N. Y.
- John Albert Schwenker, '48; *Bus*; Oradell, N. J.
- Betty Anne Scott, '48; *ElEd*; Bennington
- Dorothy Fisher Scott, '48; *LA*; Birmingham, Mich.
- Angeline Scutakes, '48; *Sec*; Burlington
- Calleen Scutakes, '45; *Sec*; Burlington
- Anita Setien, '45; *LA*; Barre
- Martha Churchill Shaw, '48; *LA*; Verona, N. J.
- William Bernard Shea, Jr., '45; *Med*; Bennington
- Patricia Elizabeth Sheffert, '48; *ElEd*; Englewood, N. J.
- Hilary Lee Shelvin, '46; *SED*; Brighton, Mass.
- Suzanne Shepard, '48; *HE*; Gardner Mass.
- Sydel Rose Sherman, '48; *LA*; Brooklyn, N. Y.
- Louise Wallace Shutler, '46; *LA*; Northfield
- Eunice Marie Simmons, '45; *LA*; Montpelier
- Raymond Christian Simms, *UnclSp*; Larchmont, N. Y.
- William Hempstead Sisson, '45; *Med*; Burlington
- Anita Louise Smith, '47; *MusEd*; Hyde Park
- Barbara Smith, '48; *LA*; Westfield, N. J.
- Frederick Edward Smith, '48; *Med*; Springfield
- Jane Louise Smith, '45; *LA*; Flushing, N. Y.
- Jane Louise Smith, '47; *HE*; Forest Hills, N. Y.
- Lydia Clarke Smith, '46; *SED*; Stamford, Conn.
- Mary Ann Smith, '48; *Cb*; Hackettstown, N. J.
- Delia Kingsbury Snell, '46; *ME*; Cambridge
- Barbara Florence Snetsinger, '48; *ElEd*; Montpelier
- Irene Frances Socinski, '48; *Sec*; West Rutland
- Selma Sally Sondik, '47; *LA*; West Hartford, Conn.

- Stanley Sam Sorkin '48; *LA*; Dorchester, Mass.
- Jeannette Elizabeth Sorn, '48; *LA*; Bala-Cynwyd, Pa.
- Jeanette Soulis, '48; *MusEd*; Birmingham, Mich.
- Jean Margaret Spalding, '48; *LA*; Wethersfield, Conn.
- Sylvia Eva Spear, '47; *ELED*; Burlington
- Michael Aristotle Spylios, '45; *LA*; Fitchburg, Mass.
- Ruth Alma Squire, '47; *LA*; Waterbury
- Harriet Bertha Squires, '48; *NED*; East Arlington
- Mary Staikos, '46; *LA*; Brooklyn, N. Y.
- Ruthene Mae Staples, '48; *LA*; Northfield
- Alison Celia Stead, '48; *LA*; Burlington
- Francis Roger Sterling, '48; *Med*; West Barrington, R. I.
- Walter Robert Stern, '46; *LA*; Rutland, Mass.
- Joanne Stevens, '47; *LA*; Worcester, Mass.
- Lois Edith Stevens, '47; *HE*; New Haven
- Vesta May Stevens, '45; *LA*; Mystic, Conn.
- Beverly Jane Stewart, '48; *LA*; Fairfax
- Dorothy Jane Bullard Stewart (Mrs.), '45; *HE*; Central Valley, N. Y.
- Gwendolyn Mary Stiles, '48; *Sec*; Burlington
- Janet Eva Stimpson, '45; *LA*; Cape Cottage, Me.
- Geraldine Kolin Stokes, '46; *SED*; Waitsfield
- David Stoller, '48; *LA*; Morrisville
- Harlan Edgerton Storrs, Jr. '48; *CE*; Williamstown
- Phyllis Claire Story, '47; *MusEd*; Shelburne
- Robert Alden Struthers, '46; *Med*; Portland, Ore.
- James Albert Sudbay, Jr., '45; *Med*; Gloucester, Mass.
- Rose Katherine Sullivan, '48; *ELED*; Bel-lows Falls
- Jacqueline Frances Swasey, '46; *LA*; Cornish, Me.
- Patricia Elaine Tatro, '48; *MusEd*; Worcester, Mass.
- Mary Jane Lewis Taylor (Mrs.), '48; *MT*; Burlington
- Wilfred Louis Thabault, '47; *Med*; Winoski
- LeGrand Hendry Thomas, '46; *Med*; Burlington
- Gail Thompson, '46; *Sec*; Worcester, Mass.
- Theda Eliza Thompson, '47; *ELED*; Bristol
- Mary Jane Thornton, '46; *LA*; Burlington
- James William Tierney, '48; *Med*; Norwalk, Conn.
- Sadie Mary Tobin, *UnclNED*; Burlington
- Elizabeth Jane Towle, '47; *Cb*; Newport
- Ida Mae Towne, '48; *SED*; Morrisville
- Phyllis Elizabeth Towne, '47; *LA*; New-port
- Mildred Trachtenberg, '48; *SED*; Brooklyn, N. Y.
- Frederick Henry Treder, '46; *Med*; Scotia, N. Y.
- Barbara Mildred Tucker, '48; *LA*; Melrose, 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
- Evelyn Dorothy Valentine '48; *LA*; Ozone Park, N. Y.
- Margaret Van Arsdale, '48; *LA*; Ozone Park, N. Y.
- Camille Gloria Van Nostrand, '48; *LA*; Forest Hills, N. Y.
- Irene Marguerite Varga, '46; *LA*; Port Washington, N. Y.
- Virginia Frances Varney, '47; *LA*; Jericho
- Carolyn Verber, '48; *LA*; Forest Hills, N. Y.
- Robert James Vernlund, '45; *Med*; West Hartford, Conn.
- Concetta Nancy Virgona, '48; *LA*; Beacon, N. Y.
- Lorene Bessie Vondle, '46; *ELED*; Stowe
- Robert Reed Wadlund, '47; *Med*; Wethersfield, Conn.
- Maureen Barbara Wait, '48; *Bus*; Rockville Centre, N. Y.
- Betty Irene Walker, '45; *HE*; Cabot
- Susan Priscilla Walker, '48; *NED*; Cabot
- Kenneth Alfred Wallace, '48; *EE*; Alburg
- Eva Brynhild Wallen, '45; *Med*; Burlington
- Susan Pulleyn Walthew '48; *LA*; East Hampton, N. Y.

- Robert Eutlick Ward, '48; *LA*; Cherry Valley, Mass.  
 Margaret Linda Waterman, '48; *SED*; Burlington  
 Jean MacIver Watson, '45; *LA*; South Barre  
 Margaret Hanna Watts, '46; *LA*; Jamaica  
 Raymond Joseph Wedge, '48; *LA*; Waterbury, Conn.  
 Myra Joyce Weinberg, '48; *LA*; Springfield, Mass.  
 Pearl Lee Weissbard, '46; *LA*; Maplewood, N. J.  
 Philip Henry Welch, III, '47; *Med*; Milton  
 Ann Duncan Weld, '48; *Med*; Northampton, Mass.  
 Catherine Lillian Wells, '48; *HE*; Washington, D. C.  
 William Loren West, '48; *Med*; Shelton, Conn.  
 Katharine Joan Westwood, '48; *LA*; Elmira, N. Y.  
 David Alanson Wetherby, III, '48; *ME*; Wallingford  
 Dorothy Katherine Whaley, '47; *ElEd*; St. Johnsbury  
 Dean Herbert Wheeler, '45; *Med*; Enosburg Falls  
 Dorothy Wheeler, '48; *HE*; Great Neck, N. Y.  
 Phyllis Anne Wheeler, '48; *HE*; West Medford, Conn.  
 Paula Celeste Whelan, '47; *LA*; Nutley, N. J.  
 Wayne Phillip Whitcomb, '45; *Med*; Burlington  
 Catherine Asenath White, '47; *LA*; Brattleboro  
 Clara Elizabeth White, '45; *HE*; Greensboro  
 Ruth Margaret White, '46; *HE*; Wallingford  
 Sarah Alida White, '45; *HE*; East Ryegate  
 Betty Mae Whitney, '48; *HE*; North Adams, Mass.  
 Royce Ernest Whittier, '48; *Med*; Concord, N. H.  
 Gerald Philip Wiedman, '45; *Med*; Danby  
 Maud Ann Wiggins, '47; *HE*; Rutland  
 Ruth Pearl Willard '45; *ElEd*; Burlington  
 John Keen Williams, '45; *Bus*; Londonderry  
 Thelma May Williams, '48; *Sec*; Charlotte  
 Thomas Wyckoff Williams, '48; *Med*; North Sutton, N. H.  
 John Selig Winston, '48; *LA*; Forest Hills, N. Y.  
 Frances Maybelle Witham '46; *LA*; Burlington  
 Helen Jewel Wolf, '46; *LA*; Brooklyn, N. Y.  
 John Morgan Wood, '47; *Med*; Hartford, Conn.  
 Frances Ruth Mack Woodcock (Mrs.), '45; *ElEd*; Graniteville  
 Phyllis Marion Wright, '47; *HE*; Saxtons River  
 Cynthia Wriston, '48; *Ag*; Highgate Springs  
 Persis Elizabeth Yates, '45; *ElEd*; Sheldon  
 Betty May Young, '48; *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.  
 Frank Zwick, '48; *LA*; New Britain, Conn.

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 Rachel B. Allbee, East Hardwick  
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 Harold Anderson, A.B., West Rutland  
 Janet Anderson, East Craftsbury  
 Marjorie Anderson (Mrs.) West Rutland  
 Frdeca Arbon, Lachine, P. Q., Canada  
 Allan Attwater, New London, Conn.

- Mabel I. Atwood, Hudson, N. Y.  
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 Marilyn Barnes, New York, N. Y.  
 Margaret I. Batchelder, Montpelier  
 Bessie Bayarsky, Burlington  
 Harriet Beale M.A., Sandwich, Mass.  
 George H. Beardsley, B.S., Enosburg Falls  
 Ruth B. Bemis (Mrs.) Bellows Falls  
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 Lucia R. Brown, B.S., Vergennes  
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 Stasia V. Dollerd, R.N., Rutland  
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 John C. Donahue, B.A., Burlington  
 Margaret V. Doty, A.B., Lansdowne, Pa.  
 Eliza A. Dubuque, North Hero  
 Isabelle L. Ducharme, East Fairfield  
 Phyla M. Ducharme, East Fairfield  
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 Helen Gallo, New York, N. Y.  
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 Robert D. Lull, Jr., A.B., Poultney  
 Edna G. Lyon, Rutland  
 Kathryn L. McAffrey (no address available)  
 Louise W. McArdle (Mrs.), Fairfax  
 Sister Mary Cephas McCann, Burlington  
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 Bernice McKee, Morrisville  
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 Rebecca M. Read, East Dorset  
 Florence E. Reid, Burlington  
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 Rosa Ritzer, Northfield  
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 Karlene V. Russel, Barton  
 Marylee E. Russell, Burlington  
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 Reinhardt G. Sabel, B.ED., Plainville, Conn.  
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 Ruth M. Sawyer, M.A., Chester  
 Harriet Schwartz, Brooklyn, New York  
 Betty-Anne Scott, Bennington  
 Calleen Scutakes, Burlington  
 Anita Setien, Barre  
 Elita M. Seymour, Essex Junction  
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 Viva G. Sherover, New York, N. Y.  
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 Roxie J. Talbert, Saxtons River  
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 Frank E. Wedge, Lakeside, Conn.  
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 Zelda Wolff, Brooklyn, N. Y.  
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 Marjorie L. Worcester, South Barre  
 George A. Wunderly, M.A., Nazareth, Pa.  
 Naomi W. Zieber (Mrs.), M.A., Philadelphia, Pa.  
 Herbert Zickler, B.S., Vergennes  
 Dora Zvirin, B.S., Larchmont, N. Y.



## STUDENTS IN RESIDENCE, 1944-45

## THE DEPARTMENT OF EDUCATION

BY CURRICULA:	MEN	WOMEN	TOTAL
Elementary Education .....	1	81	82
Music Education .....	.....	15	15
Totals .....	1	96	97
BY CLASSES:			
Seniors, 1945 .....	.....	14	14
Juniors, 1946 .....	.....	19	19
Sophomores, 1947 .....	.....	23	23
Freshmen, 1948 .....	1	40	41
Totals .....	1	96	97

## THE COLLEGE OF AGRICULTURE

BY CURRICULA:			
Agriculture .....	12	3	15
Home Economics .....	.....	100	100
Unclassified .....	2	2	4
Totals .....	14	105	119
BY CLASSES:			
Seniors, 1945 .....	.....	24	24
Juniors, 1946 .....	3	17	20
Sophomores, 1947 .....	.....	19	19
Freshmen, 1948 .....	9	43	52
Unclassified .....	2	2	4
Totals .....	14	105	119

## THE COLLEGE OF ENGINEERING

BY CURRICULA:			
Civil Engineering .....	3	.....	3
Electrical Engineering .....	3	.....	3
Mechanical Engineering .....	11	4	15
Totals .....	17	4	21
BY CLASSES:			
Seniors, 1945 .....	.....	1	1
Juniors, 1946 .....	2	2	4
Sophomores, 1947 .....	1	.....	1
Freshmen, 1948 .....	14	1	15
Totals .....	17	4	21

## NURSING EDUCATION

	MEN	WOMEN	TOTAL
Totals .....	.....	29	29
BY CLASSES:			
Seniors, 1945 .....	.....	.....	.....
Juniors, 1946 .....	.....	.....	.....
Sophomores, 1947 .....	.....	5	5
Freshmen, 1948 .....	.....	19	19
Unclassified .....	.....	5	5
Totals .....	.....	29	29

## MEDICAL TECHNOLOGY

Totals .....	1	9	10
BY CLASSES:			
Seniors, 1945 .....	.....	2	2
Juniors, 1946 .....	.....	1	1
Sophomores, 1947 .....	.....	3	3
Freshmen, 1948 .....	1	3	4
Totals .....	1	9	10

## THE COLLEGE OF ARTS AND SCIENCES

## BY CURRICULA:

Chemistry .....	5	12	17
Commerce and Economics, Business .....	11	5	16
Commerce and Economics, Commercial Teaching .....	.....	8	8
Commerce and Economics, Secretarial .....	.....	33	33
Liberal Arts .....	55	279	334
Secondary Education .....	.....	33	33
Special .....	3	11	14
Totals .....	74	381	455

## BY CLASSES:

Seniors, 1945 .....	5	57	62
Juniors, 1946 .....	6	76	82
Sophomores, 1947 .....	16	89	105
Freshmen, 1948 .....	44	148	192
Unclassified .....	3	11	14
Totals .....	74	381	455

## THE GRADUATE DEPARTMENT

Resident Graduate Students .....	1	5	6
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## THE COLLEGE OF MEDICINE

## BY CLASSES:

	MEN	WOMEN	TOTAL
Seniors, 1945 .....	35	2	37
Juniors, 1946 .....	35	3	38
Sophomores, 1947 .....	34	2	36
Freshmen, 1948 .....	37	3	40
Totals .....	141	10	151

## THE UNDERGRADUATE COLLEGES

## SUMMARY BY CLASSES:

Seniors, 1945 .....	5	98	103
Juniors, 1946 .....	11	115	126
Sophomores, 1947 .....	17	139	156
Freshmen, 1948 .....	69	254	323
Unclassified .....	5	18	23
Totals .....	107	624	731

## SUMMARY OF RESIDENT ENROLLMENT, 1944-45

## THE UNDERGRADUATE COLLEGES

The Department of Education .....	1	96	97
The Department of Medical Technology .....	1	9	10
The Department of Nursing Education .....		29	29
The College of Agriculture .....	14	105	119
The College of Engineering .....	17	4	21
The College of Arts and Sciences .....	74	381	455
Total in Undergraduate Curricula .....	107	624	731

THE GRADUATE DEPARTMENT .....	1	5	6
Total in Academic Colleges .....	108	629	737

THE COLLEGE OF MEDICINE .....	141	10	151
Total in the University .....	249	639	888

## GEOGRAPHICAL DISTRIBUTION

Arizona .....	1		1
California .....	1		1
Canada .....	1	1	2
Connecticut .....	27	40	67
Delaware .....		1	1
District of Columbia .....	1	6	7
Florida .....		1	1
Indiana .....		1	1
Maine .....	2	5	7

	MEN	WOMEN	TOTAL
Maryland .....	.....	2	2
Massachusetts .....	25	52	77
Michigan .....	.....	4	4
New Hampshire .....	10	9	19
New Jersey .....	6	42	48
New York .....	25	93	118
Oregon .....	1	.....	1
Pennsylvania .....	.....	7	7
Rhode Island .....	2	2	4
Texas .....	.....	1	1
Utah .....	.....	1	1
VERMONT .....	147	369	516
Canal Zone .....	.....	1	1
Hawaii .....	.....	1	1
Totals .....	249	639	888

## Degrees in Course, 1943-44

WINTER COMMENCEMENT—TUESDAY, DECEMBER 21, 1943

### COLLEGE OF MEDICINE

#### DOCTORS OF MEDICINE

Richard Walker Amidon, B.S., Barnet  
 Bernard Benjamin Barney, B.S., Bennington  
 Arnold Herman Becker, B.S., *cum laude*,  
 Burlington  
 Albert Deedrick Blenderman, B.S., Sioux  
 City, Iowa  
 Mary Catherine Bodette, B.S., Vergennes  
 Rosemary Cady Brewster, B.S., Underhill  
 José Nemesio Cabanzo, B.S., Detroit, Mich.  
 Francis Arnold Caccavo, A.B., Northfield  
 William Gerald Campbell, B.S., East Haven,  
 Conn.  
 John Patrick Corley, A.B., Burlington  
 Everett Lee Davis, B.S., Craftsbury Com-  
 mon  
 Alan Davidson, A.B., *cum laude*, St. Albans  
 David Dana DePue, Canton, N. Y.  
 Elizabeth Doton, B.S., Woodstock  
 Stanley Franklin Dwinell, B.S., *cum laude*,  
 Bradford  
 Donald Maxwell Fowell, B.S., Burlington  
 Albert Hugo Fregosi, A.B., Proctor  
 Robert Ignatius Gleason, B.S., Burlington

Frederick Joseph Guilmette, B.S., Rochester  
 Carleton Raymond Haines, B.S., Barre  
 Howard Hinman Jacobs, B.S., Enosburg  
 Falls  
 Lawrence Albert Janoff, B.S., New York,  
 N. Y.  
 William Herbert Johnston, B.S., St. Johns-  
 bury  
 Francis Alan Kennedy, B.S., 2ND LT. M.A.  
 C.R., St. Albans  
 Louis Fabien Pine, B.S., Burlington  
 William Arthur Pratt, B.S., *cum laude*,  
 Rutland  
 Ivan Booth Ross, B.S., St. Albans  
 Henry Jerome Rulfo, B.S., Barre  
 Harold John Rush, B.S., Newport  
 James Edwin Simpson, B.S., St. Albans  
 Clark William Stevens, B.S., N. Stratford,  
 N. H.  
 Verlynn Vincent Volin, B.S., Lennox, S. D.  
 Arthur Dave Wolk, B.S., *cum laude*, Rut-  
 land

## PRIZES

## CARBEE

*For Greatest Proficiency in the Subject of Obstetrics*

Alan Davidson, A.B.  
Stanley Franklin Dwinell B.S.

## WOODBURY PRIZES IN MEDICINE

*For Greatest Proficiency in Clinical Work in Senior Year*

Alan Davidson, A.B.

*To the Sophomore having the Highest Standing for two years*

Sanford Savin, B.S.

## NU SIGMA NU MERIT AWARDS

*To the Outstanding Student in the Junior Class*

Donald Holden Harwood, B.S.

*To the Outstanding Student in the Freshman Class*

Edna Frances Dole, B.S.

## COMMENCEMENT—MONDAY, MAY 29, 1944

## ELEMENTARY EDUCATION

## BACHELORS OF EDUCATION

Blanche Evelyn Benner, Burlington  
Priscilla Ann Bennett, Bennington  
Nancy Hills Binns, Leominster, Mass.  
Barbara Mary Clark, St. Albans  
Helen Clifford Crawford, *cum laude*, South Royalton  
Constance Bray Dwinell, Springfield, Mass.  
\*Julia Bancroft Fletcher, Woodstock  
Edna Louise Gates, South Royalton  
Barbara Mae Hall, East Randolph  
\*Gertrude Marie Hallock, Burlington  
Louise Marie Johnson, Burlington  
Barbara Lillian Lane, Burlington  
Annette Adelia Lilley, East Fairfield

Ellen Ann O'Brien (*MusEd*), Waterbury  
Carolyn Ayers Phelps (*MusEd*), *cum laude*, Milton  
\*Carolyn Emma Provost, Burlington  
Rita Marie Shea, Nashua, N. H.  
Justine Whalen Smyle, Burlington  
Phyllis Marguerite Taylor (*MusEd*), Bel-  
lows Falls  
Florence Jean Vogler (*MusEd*), *magna cum laude*, Burlington  
Laura Lucille White, Ryegate  
Marian Ruth Wool, Burlington  
Winifred Mary Wrisley (*MusEd*), *cum laude*, Waterbury

## THE COLLEGE OF AGRICULTURE

## BACHELORS OF SCIENCE IN AGRICULTURE

Russell Flanders Carpenter, East Bethel  
Eugene Moses Fuchs, Bronx, N. Y.  
James Philo Irish, Essex Junction  
Nathan Zenas Knight, Post Mills

Robert Orville Sinclair, Johnson  
Richard William Thomas, Rutland  
Carl Alexander Urie, Craftsbury Common  
Seaver David Wright, Jr., White River Junction

\* As of February 1, 1944

## BACHELORS OF SCIENCE IN HOME ECONOMICS

- |  |  |
|--|--|
| Estelle Muriel Berkson, Newton Center, Mass.             | Ramona Dorothy Hathorn, White River Junction         |
| Hazel Edna Butterfield, Middlebury                       | Erika Natalie Heininger, Burlington                  |
| Geraldine Frances Campbell, Strafford                    | Rosamond Ella Hughes, Brattleboro                    |
| Norma Irene Charest, <i>cum laude</i> , Wollaston, Mass. | Judith Priscilla Isaacs, Far Rockaway, N. Y.         |
| Dorothy Jean Collins, Colchester                         | Ione Ethel Lacy, <i>magna cum laude</i> , Burlington |
| Virginia Crocker, North Hyde Park                        | Frances Marie Lanou, Burlington                      |
| Eleanor Patricia Crowley, Hastings-on-Hudson, N. Y.      | Clara Marie Liese, Chelsea                           |
| Margaret Ann Durfee, Burlington                          | Hilda Arlene Lund, Hartford, Conn.                   |
| Alice Safford Dyer, Richford                             | Jane Louise McAuliffe, Burlington                    |
| Penelope Standish Easton, Craftsbury Common              | Jean Alma Mayo, Essex Junction                       |
| Emma Marion Finn, St. Albans                             | Alice Louise Ryan, Vergennes                         |
| Alma Lucia Gaylord, Northfield                           | Shirley Wedge Thompson, Lakeside, Conn.              |
| Ruth Mary Gorham, Middlebury                             | Eunice Adelaide Watts, Jamaica                       |
| Frances Aline Gravel, Winooski                           | Barbara Mae Webb, St. Albans                         |
| Myra Davis Gray, Waban, Mass.                            | Harriet Louise Whitney, Springfield                  |

## THE COLLEGE OF ENGINEERING

## BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING

- |  |                                    |
|--|------------------------------------|
| Melvin Carl Blodgett, <i>cum laude</i> , St. Johnsbury | Harvey Edward Goodell, Wells River |
|--|------------------------------------|

## BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

- |                                 |                                 |
|---------------------------------|---------------------------------|
| Monroe Barnes Allen, Burlington | Dean Charles Severance, Chester |
|---------------------------------|---------------------------------|

## THE COLLEGE OF ARTS AND SCIENCES

## BACHELORS OF SCIENCE IN CHEMISTRY

- |   |  |
|---|--|
| Rhoda Marsh Baldwin, <i>cum laude</i> , Hinesburg               | Louis Fishman, Burlington                        |
| Peter Doelger Bissell, Suffield, Conn.                          | Roderick Julius Humphreys, Bennington            |
| Cleveland Ray Denton, Burlington                                | Patricia Maxfield McCormick, New Hartford, Conn. |
| Rose Sophie Eisman, <i>magna cum laude</i> , Jersey City, N. J. | Leon William Mero, Winooski                      |
|   | Francis Xavier Prior, Springfield, Mass.         |

## BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

- |  |   |
|--|---|
| Lilla Claire Blumberg, New Rochelle, N. Y. | Selma Myrna Fienberg, <i>cum laude</i> , Bennington |
| Ruth Helen Buttles, Burlington             | Diantha Smith Geer, Old Greenwich, Conn.            |

Caroline Wilhelmina Gerling, *cum laude*,  
Schenectary, N. Y.

Esther Margaret Gustafson, Worcester,  
Mass.

\*Arthur Henry Kehoe, Jr., Rutherford,  
N. J.

Laura Marion Martin, Bloomfield, N. J.

Mary Elizabeth Metcalf, Waterbury

Betsy Roberts Minor, Batavia, N. Y.

Sylvia Marie Runnals, Montpelier

Mary Elizabeth Williams, Springfield

Dorothy Rita Wimet, Pittsford

### BACHELORS OF SCIENCE IN EDUCATION

Louise Eugenie Bianchi, Woodstock

Ruth Emmagene Butterfield, Springfield

Helen Patricia Ells, Essex Junction

Mary Virginia Paterson, East Craftsbury

Marie Cleone Royer, Island Pond

### BACHELORS OF SCIENCE

Saul Boyarsky, *magna cum laude*, Burling-  
ton

Armand Bennett Cognetta, Stamford,  
Conn.

Rodolfo Lester Coletti, Barre

Wilfred Theodore Reed Elliott, St. Johns-  
bury

Lester Frank, *cum laude*, Burlington

John Riess Fuller, Burlington

Marjorie Cloma Gates, Franklin

Richard Carman Hay, Burlington

Lloyd Norman Hazen, Richmond

Stedman George Huard, Winooski

Clifford Joseph, New York, N. Y.

Thomas Joseph Keighley, Burlington

Stanley Marshall Kemler, Burlington

Robert Clare Lockwood, Sparta, N. J.

Gilbert Manheim, *cum laude*, Rutland

James Bishop McGill, St. Johnsbury

Harmon Jack Machanic, Burlington

Gerald Francis Parkhurst, Bennington

Shirley Geraldine Price, Springfield

LeGrand Hendry Thomas, Burlington

### BACHELORS OF ARTS

Elaine Scott Anderson, Craftsbury

†Seymour James Baum, Bridgeport, Conn.

Shirley Ann Buckingham, White Plains,  
N. Y.

Klara Feiner Calitri, New York, N. Y.

Alison Mary Carr, Ossining, N. Y.

Violette Maejean Chun, West Hartford,  
Conn.

Pauline Elizabeth Clarke, Fairfield, Conn.

Morton Learned Cushing, St. Albans

Jean Margaret Davison, *cum laude*, Provi-  
dence, R. I.

Rosemary Constance Decker, Poughkeepsie,  
N. Y.

Margaret Elisabeth Delano, *cum laude*,  
Shoreham

Kathryn Margaret Doane, *cum laude*,  
Bakersfield

Margaret Newcomb Fake, *cum laude*, Dal-  
ton, Mass.

Era Del Giudice, Waterbury

†Betty Hawkinson Doherty, St. Johnsbury

Marilyn Orlen Epstein, Holyoke, Mass.

Nancy Maxwell Fawcett, Marblehead, Mass.

Kathryn Houghton Feerick, Brooklyn,  
N. Y.

Zelva Flower, Hartland Four Corners

Edith Patricia Fowell, Burlington

Robert Creighton Gilmore, Proctor

Ruth Mabel Horsman, Stafford, Conn.

Geraldine Muriel Jasper, Brooklyn, N. Y.

Jeanne Arlene Knickerbocker, Burlington

Helene Ann Levesque, Northampton, Mass.

Florence Theodora Levin, Brooklyn, N. Y.

Margaret Elizabeth Theresa Lillie, Benning-  
ton

Ruth Marie Lyon, Newport

Irene Patricia McCormack, *cum laude*,  
West Rutland

Deane Barbara Moore, Newport

\* As of May, 1943.

† As of February 1, 1944

Agnes June Mulholland, Malone, N. Y.  
Claire Elinor Nolan, North Bennington  
Margaret Helen Palmer, Malone, N. Y.  
Marjorie Waite Parker, Goffstown, N. H.  
Priscilla Read Perkins, Bridgewater Corners  
Mary Perry, Barre  
Mary Helen Quinn, Burlington  
Ruth Vivian Rappaport, Quincy, Mass.  
Marion Barrett Rhoades, Pittsfield, Mass.  
Harriet Miriam Shapiro, Ringoes, N. J.  
Gertrude Helene Sherman, Bristol

Ruth Ellen Steinman, Brooklyn, N. Y.  
Dorothy Mae Stevens, Guildhall  
Mary Louise Strauch, St. Johnsbury  
\*Rosemary Thayer, Burlington  
Ruth True, *cum laude*, Lyndon Center  
\*Marilyn Eimer Vreeland, Jackson Heights,  
N. Y.  
Rosemary King Warren, *cum laude*, Wrentham, Mass.  
Sylvia Elizabeth Wellwood, Springfield  
Elizabeth Ann White, Pittsford

## ADVANCED DEGREES

### MASTER OF EDUCATION

Irene Emily Cook, A.B., Mount Holyoke, 1920

### MASTER OF ARTS

#### HISTORY

Grace Louise Knox, B.S., State Teachers College, Bridgewater, Mass., 1934

*Thesis:* The Attempts of Colonel House to Bring About Peace Negotiations,  
1915-1916

### DOCTOR OF PHILOSOPHY

#### PHYSIOLOGICAL CHEMISTRY

Paul Frederic Fenton, B.S., University of Rochester, 1938; M.S., University of Vermont,  
1940

*Thesis:* The Response of the Gastrointestinal Tract to Ingested Carbohydrates

## DEGREES HONORIS CAUSA

### DOCTOR OF LAWS

Brigadier General Merritt Austin Edson

### DOCTOR OF ENGINEERING

Arthur Henry Kehoe

### DOCTOR OF LETTERS

Charles Huntington Pennoyer

## SPECIAL HONORS

### ENGLISH

Elizabeth Ann White

*Thesis:* Classical Influences on Paradise Lost

\* As of February 1, 1944



## MUSIC

Winifred Mary Wrisley

*Thesis: Study of Richard Wagner's Harmonic Style in Das Rheingold as Compared to That in Lohengrin*

## PSYCHOLOGY

Edith Patricia Fowell

*Thesis: Three Modern Concepts of Intelligence—Binet, Thorndike, Spearman*

## PRIZES

## THE GEORGE H. WALKER DAIRY PRIZE

*For Conspicuous Merit in Dairy Husbandry Studies and for Character*

Russell Flanders Carpenter, '44

## THE ELWIN L. INGALLS 4-H PRIZE

*In Honor of Elwin L. Ingalls, for Outstanding Merit in 4-H Club Work, Character, and Scholarship*

Marjorie Jane Nutting, '45

## THE EMERSON PRIZE IN HISTORY

*In Memory of Professor Samuel Franklin Emerson*

Jean Margaret Davison, '44

## THE GERMAN LITERARY PRIZE

*Awarded by the Goethe Lodge of Burlington for General Excellence in German*

Mary Ursula Lindsay '45

## THE FRED T. KIDDER MEDAL

*Awarded for Character, Leadership, and Scholarship*

Jakob Katz, '44

## THE A. ATWATER KENT PRIZE

*Given in Electrical Engineering for Progress in Judgment, Development of Personality, and Promise of Success*

Melvin Carl Blodgett, '44

## THE EDWARD PAGE BUTLER DEBATING PRIZES

*Awarded for Proficiency in Debate*

*First: Lilla Claire Blumberg, '44*

*Second: Shirley Dorothy Harris, '47*

*Third: Frances Ferguson Donahue, '45*

## THE ROBERT ASHTON LAWRENCE DEBATING PRIZES

*Awarded for Proficiency in Debate*

*First: Mathias Lloyd Spiegel, '46*

*Second: William Roy Cook, '46*

## 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*

Esther Margaret Gustafson, '44

## 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*

Harriet Natalie Barron, '46

## GRADUATED FEBRUARY 1, 1944

## BACHELOR OF EDUCATION

Janice Somers Berry, Brattleboro

BACHELOR OF SCIENCE IN  
HOME ECONOMICS

Margaret Wishart Kemp, Burlington

BACHELOR OF SCIENCE IN  
MECHANICAL ENGINEERING

Robert Gideon Turner, Jr., Torrington,  
Conn.

## MASTER OF ARTS

Sister Mary Jerome Barry, A.B., Villanova,  
1931, Rutland

BACHELOR OF SCIENCE IN  
CHEMISTRY

George Jason Goldsmith, Newburyport,  
Mass.

BACHELOR OF SCIENCE IN  
EDUCATION

Helen Mary Skerry, St. Johnsbury

## BACHELOR OF ARTS

Phyllis Gloria Fein, Springfield, Mass.  
Jakob Katz, *cum laude*, New York, N. Y.

## COMMENCEMENT—WEDNESDAY, SEPTEMBER 13, 1944

## ELEMENTARY EDUCATION

## BACHELORS OF EDUCATION

Carol Persis Burns, Burlington  
Ita Margaret Casey, Burlington  
Nina Pearl Cram, Burlington  
Marie Alice Hammond, Burlington  
Lillian Myers Iversen, Burlington  
Kathleen Laura Little, Chelsea  
Jeannette Beecher Olson, Ridgewood, N. J.

Karlene Verna Russell, Barton  
Margaret Lucy Smith, Barton  
Adele Fern Souther, Burlington  
Shirley Mae Thomas, *cum laude*, Jefferson-  
ville  
Mabel Viola Watson, Peacham  
May Lillian Willard, Derby

## THE COLLEGE OF AGRICULTURE

## BACHELOR OF SCIENCE IN HOME ECONOMICS

Janet Blaine Anderson, Craftsbury

## THE COLLEGE OF ENGINEERING

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Robert Ralston Pond, Burlington

## THE COLLEGE OF ARTS AND SCIENCES

## BACHELOR OF SCIENCE IN CHEMISTRY

Ralph Dettmer Divine, Waterbury

## BACHELORS OF SCIENCE IN EDUCATION

Margaret Isabelle Batchelder, Montpelier  
Elizabeth Dent Doolin, Washington, D. C.

Helen Doris Potter, Middlebury

## BACHELORS OF SCIENCE IN MEDICAL TECHNOLOGY

Frances Dolores Juliano, Brooklyn, N. Y.    Antoinette Josephine Salvator, Johnson

## BACHELORS OF SCIENCE

Armand Bennett Cognetta, Stamford, Conn.  
Paul Herbert Crandall, Essex Junction  
Porter Hinman Dale, Montpelier  
Delmer Dennis Durgin, Central Islip, N. Y.  
Donald Walter Humphreys, Bennington

Bernard Marvin Kaye, *cum laude*, Brandon  
Ronald Howard Neal, Laconia, N. H.  
John Cochrane Patten, Claremont, N. H.  
Henry Thomas Tulip, Burlington

## BACHELORS OF ARTS

Dorris Evelyn Bliss, Plymouth, Mass.  
Phyllis Eisenberg Butler, Flushing, N. Y.  
Constance Mary Garvin, Greenfield, N. H.

Beatrice Marjorie Thompson, *magna cum laude*, West Hartford

## ADVANCED DEGREES

## MASTERS OF EDUCATION

Anna Viola Burns, B.E., Castleton Normal School, 1940  
Ethelyn Grace Foster, PH.B., University of Vermont, 1932  
Edith Dodge Newton, B.S. IN ED., State Teachers College, Westfield, Mass., 1939  
Reinhardt Gottlieb Sabel, B.S., Massachusetts Institute of Technology, 1933; B.E., Teachers College of Connecticut, 1934

## MASTER OF ARTS

## ENGLISH

Anna Morgan Brady, B.S. IN ED., State Teachers College, Bridgewater, Mass., 1924

*Thesis:* A Study of the Tale of Deirdre: English Translation and Literary Treatment

## EDUCATION

Sister Mary Regis Conlon, B.A., College of Saint Rose, 1935

*Thesis:* Character Training as Stressed in Educational Periodicals of the Last Fifteen Years

## FRENCH

Annette Rosemary Plante, B.A., College of New Rochelle, 1943

*Thesis: A Study of Seventeenth Century French Preciosity, 1617-1690, Sources and Origins in the Literary School Immediately Preceding 1617*

## THE COLLEGE OF MEDICINE

## DOCTORS OF MEDICINE

Lawrence Martin Agan, B.S., Bennington  
 Robert William Agan, B.S., Bennington  
 Lloyd Gibson Bartholomew, A.B., *cum laude*, Whitehall, N. Y.  
 Lawrence Arthur Beauchamp, B.S., Rutland  
 Robert Paul Beaudette, B.S., Montpelier  
 John Ernest Belock, A.B., Rutland  
 George Wilson Brooks, B.S., Warren  
 John Loring Costello, B.S., Rutland  
 Wilton Warner Covey, A.B., Brattleboro  
 Joseph Charles Creed, B.S., Rutland  
 Harriet Pearson Dustan, B.S., Craftsbury  
 Common  
 Mary Lorraine Gannon, B.S., Fairfield  
 Robert Seamon Goldberg, B.S., Burlington  
 Gerald Leon Haines, B.S., Barre  
 Donald Holden Harwood, B.S., *cum laude*,  
 Dorset  
 Ethan Victor Howard, Jr., B.S., Burlington  
 Edward Allen Keenan, Jr., B.S., Burlington  
 Thomas Aloysius Keenan, B.S., Rutland

Paul Kingston Larnier, B.S., Burlington  
 Richard George Lynch, B.S., Burlington  
 John Frederick Moore, B.S., Fair Haven  
 Harold Moskovitz, PH.B., *cum laude*, Burlington  
 William Wolfe Musicant, B.S., Brooklyn,  
 N. Y.  
 Henri Louis Pache, B.S., Great Barrington,  
 Mass.  
 Christopher George Palans, B.S., Burlington  
 Stanley John Pekala, B.S., Northampton,  
 Mass.  
 John Madison Perry, B.S., Plainfield  
 James David Sawyer, B.S., St. Albans  
 Roger Frederick Smith, B.S., Waitsfield  
 Alfred Jerome Swyer, A.B., 2ND LT., M.A.C.,  
 A.U.S., *cum laude*, Rutland  
 Robert Donald Wakefield, B.S., Burlington  
 John Joseph Zellinger, B.S., *cum laude*, St.  
 Albans

## PRIZES

## CARBEE PRIZE

*For Greatest Proficiency in the Subject of  
 Obstetrics*

Lloyd Gibson Bartholomew, A.B.  
 Donald Holden Harwood, B.S.

## PSYCHIATRY PRIZE

*To the Senior Having the Highest Stand-  
 ing in Psychiatry*

Wilton Warner Covey, A.B.

## NU SIGMA NU MERIT AWARDS

*To the Outstanding Student in the Fresh-  
 man Class*

Edward Byington Crane

## WOODBURY PRIZES IN MEDICINE

*For Greatest Proficiency in Clinical Work  
 in Senior Year*

Lloyd Gibson Bartholomew, A.B.  
 Donald Holden Harwood, B.S.

*To the Sophomore Having the Highest  
 Standing for Two Years of Medical Work*  
 Edna Dole Backup, B.S.

*To the Outstanding Student in the Junior  
 Class*

Robert Emmett O'Brien, B.S.

## HIGH STANDING LISTS

BASED ON GRADES FOR MAY, 1944

## GROUP A

*(No grades below 92)**Class of 1946*

Carolyn L. Brehmer

Betsy E. Kipp

*Class of 1947*Anastasia Boretos  
Martha L. Durgin  
Lois J. EimerDeena S. Pord  
Anita Ross  
Siegfried R. Taffs

## GROUP B

*(No grades below 82)**Class of 1946*Carolyn E. Aronson  
William H. Birchard  
Constance W. Brownell  
Genevieve E. Campbell  
Virginia Campbell  
Harriet Cohen  
William R. Cook, Jr.  
Nancy A. Dockstader  
Ida M. Donnelly  
Mary-Jean A. Dunsmore  
Joan M. Garrity  
David E. Gates  
Mary T. Greene  
Marcia A. GreenspanKathryn M. McGillicuddy  
Anne K. McNamara  
Constance R. Perkins  
Sonia M. Perkins  
Olga A. Schoelles  
Ruth E. Schoppe  
Louise W. Shutler  
Mary J. Thornton  
Irene M. Varga  
Margaret H. Watts  
Pearl L. Weissbard  
Ruth M. White  
Frances M. Witham*Class of 1947*Lois M. Baker  
Stella Bloomberg  
Mignon R. Burggraf  
Jean A. Carlson  
Esther C. Cook  
Virginia I. Drugg  
Betty A. DuBois  
Doris I. Dwyer  
Janet E. Fickenschier  
Madeline Hager  
Natalie R. Harris  
Mary C. HayesEsther R. Hellerman  
Lorraine H. Kaplan  
Doris J. Lindecrantz  
Rita McGarry  
Sara J. Merwin  
Mary G. Pease  
Kenneth E. Phillips  
Ruth M. Post  
Anita L. Smith  
Elizabeth J. Towle  
Shirley L. Zoll

## 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, 84 Crown St., Meriden, Conn.

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

ALUMNI OFFICE—Waterman Bldg., Burlington, Vt.

HONORARY MEMBERS—President John S. Millis, Dean 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

1897 Albert E. Lewis, Waterman Building, Rms. 1001-1003, 44 School St., Boston, Mass.

- 1898 Louis C. Dodd, 79 Windsor Ave., Buffalo, N. Y.  
1899 Carl B. Brownell, 70 Robinson Ct., Burlington, Vt.  
1900 Dr. Julius E. Dewey, 139 State St., Montpelier, Vt.  
1901 Samuel S. Dennis, Waterman Building, Rms. 1001-1003, 44 School St., Boston, Mass.  
1902 Harry P. Hudson, 423 Furman St., Schenectady, N. Y.  
1903 Hollis E. Gray, 61 South Willard 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., Can.  
1908 William L. Blanchard, 89 Walton Pk., Melrose Highlands, Mass.  
1909 William L. Gardner, 17 Overlake Pk., 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.  
1914 Seth P. Johnson, Williston, Vt.  
1915 Harold A. Mayforth—Military Service.  
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, 44 Caroline St., Burlington, 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 Ct., Burlington, Vt.  
1926 Olney W. Hill—Military Service.  
1927 William M. Lockwood, 273 South 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 North Winooski Ave., Burlington, Vt.  
1931 Frederick J. Reed—Military Service.  
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—Military Service.  
1936 Mrs. Mary Whitney Rowe, 121 South Willard St., Burlington, Vt.  
1937 Mrs. Sally Carr Matthews, 38 Ledge Rd., Burlington, Vt.  
1938 Donald B. Carpenter—Military Service.

- 1939 Mrs. Priscilla Savage Watt, 290 Soundview Ave., Coscob, Conn.
- 1940 Mary C. Nelson, Chatham Hall, Chatham, Va.
- 1941 Jane Allen Hadley, 385 South Willard St., Burlington, Vt.
- 1942 Joanna J. Metcalf, Waterbury, Vt.
- 1943 Janet A. Hackwell, 115 Elmer Ave., Schenectady, N. Y.
- 1944 Elizabeth A. White, Pittsford, Vt.

## MEMBERS-AT-LARGE

### *Term Expires 1945*

- 1913 Mary Jean Simpson, 61 N. Prospect St., Burlington, Vt.
- 1914 David W. Howe, 385 S. Prospect St., Burlington, Vt.
- 1924 J. Hervey Macomber, Jr., 94 Church St., Burlington, Vt.
- 1895 Philip J. Ross, Manhattan Life Bldg., 120 West 57th St., New York City.

### *Term Expires 1946*

- 1905 Fred B. Wright, 195 Broadway, New York City.
- 1928 Howard A. Prentice—Military Service.
- 1914 James H. Moore, 9 East 38th St., New York City.
- 1909 Thomas J. Mulcare, 414 Mt. Auburn St., Cambridge, Mass.

### *Term Expires 1947*

- 1915 Leon W. Dean, 308 S. Prospect St., Burlington, Vt.
- 1915 Hovey Jordan, 449 S. Prospect St., Burlington, Vt.
- 1917 Maurice L. Kelley, 8 Baldwin St., Montpelier, Vt.
- 1925 Lyman S. Rowell, 38 Cliff St., Burlington, Vt.

### *Term Expires 1948*

- 1931 Louis Lisman, 295 Maple St., Burlington, Vt.
- 1917 Rev. Robert F. Joyce—Military Service.
- 1929 Loren F. Palmer, 308 Maple St., Burlington, Vt.
- 1921 James R. Jennings, Riverside, Conn.

### *Term Expires 1949*

- 1912 Frederick W. Shepardson, 101 Ledge Rd., Burlington, Vt.
- 1919 Willis R. Buck, 414 Colchester Ave., Burlington, Vt.
- 1925 Raymond E. Holway, 404 Service Bldg., Rutland, Vt.
- 1928 Mrs. Eleanor Lockwood Nolin, 230 South Winooski Ave., Burlington, Vt.

## CLUB REPRESENTATIVES

### *Out-of-State*

- Greater Boston—Henry Semans, '24.



Southern California—Mrs. Blanche M. Corley, '17.  
Chicago—Harold C. Carter, '25.  
Hartford Alumnae—Erminie L. Pollard, '24.  
Hartford Alumni—Charles H. Blackall, '27.  
Connecticut Alumni—Frederick S. Harris, '22.  
New York Alumni—Harold M. Robinson, '06.  
New York Alumnae—Eleanor K. Koenig, '31.  
New York Medical Alumni—Dr. Allen M. Margold, '25.  
Western New York Alumni—Louis C. Dodd, '98.  
Washington, D. C.—Caro Wyman Kvande, '33.  
Worcester County—Ralph E. Minckler, '15.

### *Vermont*

Addison County—Arthur B. Delano, '11.  
Burlington Alumni—Lemuel J. Peet, '28.  
Burlington Alumnae—Mary O. Boynton, '94.  
U. V. M. Medical—Dr. Peter P. Lawlor, '20.  
Caledonia County—James B. Campbell, '09.  
Bennington County—Walter C. Wood, '16.  
Franklin and Grand Isle Counties—Robert W. Ready, '24.  
Lamoille County—Mrs. Priscilla S. Davison, '23.  
Orleans and Essex Counties—Roger D. Whitcomb, '38.  
Rutland County—Walter Belding, '11.  
Springfield, Vt.—Dr. Paul C. T. Bacon, '33.  
Washington and Orange Counties—Preston C. Cummings, '34.  
Windham County—Edmund M. Root, '17.  
Windsor County—Robert M. Bent, '35 (Military 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 WHELPLEY HICKOK SCHOLARSHIPS, three in number, founded in 1902, by Mrs. Julia F. Hickok, wife of James W. Hickok of the Class of 1837, in memory of a son, a member of the Class of 1871.

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

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

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

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

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. Elisa 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 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 outside judge, who may withhold the prize if no essay submitted reaches a sufficiently high standard.

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

THE ELWIN LEROY INGALLS PRIZE 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 depart-

ment 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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