

Bulletin of the
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE

BURLINGTON, VERMONT

1791

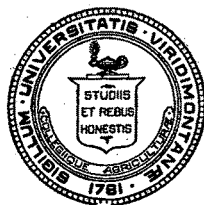


1947

One Hundred Fifty-Sixth Year

CATALOGUE NUMBER 1946-1947
VOLUME XLIV NUMBER 1
WITH ANNOUNCEMENTS FOR 1947-1948

❧ BULLETIN OF THE ❧
UNIVERSITY OF VERMONT
AND STATE AGRICULTURAL COLLEGE
BURLINGTON - - - - VERMONT
VOLUME XLIV—JANUARY, 1947—NUMBER 1



THE CATALOGUE
ANNOUNCEMENTS

1946-1947
1947-1948

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Veterans and the University

Veterans' Education

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

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

The Accelerated Program

The University is now offering an accelerated program for veterans only. According to present plans, opportunity will be provided for veterans who enter in October, 1946, and January, 1947, to complete a four-year course in June, 1950.

The College of Medicine has only the regular two-semester academic year.

The Reserve Officers Training Corps

All male students in the undergraduate colleges, unless excused, must complete before graduation the two basic courses in Military Science. Veterans may be wholly or partially exempt from this requirement.

The advanced courses in Military Science for juniors and seniors and the course in Medico-Military Science for medical students, suspended during the war, have been reinstated.

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

Breakage Fee

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

Calendar

1947

JANUARY

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UNIVERSITY CALENDAR

WINTER QUARTER, 1947

Saturday, January 4.....	Enrollment
Monday, January 6.....	Classes begin
Friday and Saturday, February 21-22.....	Kake Walk, holiday
Tuesday, March 18 to Saturday, March 22.....	Examinations

SPRING QUARTER, 1947

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

SUMMER SESSION, 1947: July 7 to August 15

SUMMER QUARTER, 1947

Saturday, June 28.....	Enrollment
Monday, June 30.....	Classes begin
Friday, July 4.....	University holiday
Monday, September 1.....	Labor Day, not a holiday
Tuesday, September 9 to Saturday, September 13.....	Examinations

FALL QUARTER, 1947

Tuesday, September 30.....	Freshman Preliminary Day
Wednesday, October 1.....	Freshman Enrollment
Thursday, October 2.....	Upperclass Enrollment
Friday, October 3.....	Classes begin
Wednesday noon, November 26 to Sunday, November 30.....	Thanksgiving Recess
Monday, December 15 to Friday, December 19.....	Examinations

WINTER QUARTER, 1948

Saturday, January 3.....	Enrollment
Monday, January 5.....	Classes begin
Saturday, February 21.....	Kake Walk, holiday
Tuesday, March 16 to Saturday, March 20.....	Examinations

SPRING QUARTER, 1948

Tuesday, March 30.....	Enrollment
Wednesday, March 31.....	Classes begin
Saturday, May 1.....	Founder's Day
Monday, May 31.....	Memorial Day, holiday
Friday, June 11 to Wednesday, June 16.....	Examinations
Monday, June 21.....	Commencement

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- 1946 WILLIAM MURRAY LOCKWOOD, Ph.B.
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- 1946 *WILLIAM HENRY WILLS, LL.D.
- 1946 JOHN EMERSON LOVELY, B.S.
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1946-52

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Proctor, Vt.
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1941-47

1943-49

1945-51

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Associate Professor of Nursing	
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Associate Professor of Botany	So. Burlington

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DONALD CEDRIC HENDERSON, M.S. Associate Professor of Poultry Husbandry	55 University Terr.
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FRANCES HANNAH DUNN CRUMRINE, P.D.F.A. Associate Professor of Home Economics (Art and Related Arts)	376 College St.
ROBERT BRUCE HUBER, Ph.D. Associate Professor of Speech	555A Shelburne Rd.
*JOHN FRYE BELL, M.D. Associate Professor of Orthopedic Surgery	288 Main St.

Assistant Professors

HOWARD GUY MILLINGTON, C.E. Assistant Professor of Mathematics	225 Plattsburg Ave.
ROBERT LELAND MAYNARD, M.D. Assistant Professor of Orthopedic Surgery	289 College St.

* Appointed January 1, 1947.

FLORENCE EMILY BAILEY, M.S. Assistant Professor of Home Economics	54 S. Willard St.
JAMES EUGENE POOLEY, A.M. Assistant Professor of Classical Languages and History	9 Handy Ct.
BENJAMIN FRANKLIN LADD, A.M. Assistant Professor of German	238 College St.
LLOYD ABRAM WOODWARD, M.S. Assistant Professor of Physics	82 Henry St.
LEON W. DEAN, A.B. Assistant Professor of English	308 S. Prospect St.
RAYMOND AVERY HALL, A.M. Assistant Professor of English	12 Overlake Pk.
GEORGE HUBERT NICHOLSON, A.M. Assistant Professor of Mathematics	33 Prospect Hill
ROLAND FREEMAN DOANE, Ph.D. Assistant Professor of Romance Languages	4 Cedar Lane
BENJAMIN BOOTH WAINWRIGHT, A.M. Assistant Professor of English	210 Pearl St.
LYMAN SMITH ROWELL, M.S. Assistant Professor of Zoology	38 Cliff St.
LAURENCE FOREST SHOREY, M.S. Assistant Professor of Electrical Engineering	60 University Terr.
CHARLES GEORGE DOLL, A.M. Assistant Professor of Geology and Mineralogy	
ARCHIBALD THOMPSON POST, Ed.M. Assistant Professor of Physical Education of Men	114 Ferguson Ave.
KARL CORNELIUS McMAHON, M.D. Assistant Professor of Ophthalmology and Clinical Instructor in Otolaryngology and Rhinology	381 S. Union St.
EDWARD DOUGLAS McSWEENEY, M.D. Assistant Professor of Gynecology	28 S. Willard St.
RANDOLPH SHEPARDSON TOWNE, A.M. Assistant Professor of Romance Languages	407 College St.
HIRAM EUGENE UPTON, M.D. Assistant Professor of Clinical Medicine	266 Main St.
KEITH FRANK TRUAX, M.D. Assistant Professor of Surgery	284 S. Union St.
WILLIAM LAWRENCE GARDNER, B.S. Assistant Professor of Physical Education for Men	17 Overlake Pk.
MRS. NELLE ALEXANDER ADAMS, A.M. Assistant Professor of Education	36 Overlake Pk.
GEORGE CHAPMAN CROOKS, Ph.D. Assistant Professor of Chemistry	Spear St. So. Burlington
PAUL DENNISON CLARK, M.D. Assistant Professor of Pediatrics	15 DeForest Rd.

The Staff

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LOUIS BENSON, M.D. Assistant Professor of Preventive Medicine	Pittsford
ARTHUR RUSH HOGAN, M.D. Assistant Professor of Clinical Surgery	8 S. Willard St.
PETER PAUL LAWLOR, M.D. Assistant Professor of Otolaryngology and Rhinology	118 Ledge Rd.
EDWARD PERRY DISBROW, M.D. Assistant Professor of Clinical Dermatology	109 Longfellow Rd. Worcester, Mass.
THEODORE HENRY HARWOOD, M.D. Assistant Professor Medicine	55 Cliff St.
FOSTER LANE VIBBER, M.D. Assistant Professor of Clinical Neurology	27 Elm St. Worcester, Mass.
ALBAN BENNETT ROONEY, M.S. Assistant Professor of Physics	26 University Terr.
JESSE OGLEVEE ARNOLD, II, M.D. Assistant Professor of Clinical Neurology	836 Grove St. Worcester, Mass.
ARTHUR GLADSTONE, M.D. Assistant Professor of Clinical Surgery	217 S. Union St.
STUART STARNES CORBIN, M.D. Assistant Professor of Pediatrics	544 S. Willard St.
MARY BURKE SULLIVAN, A.M. Assistant Professor of English and Supervisor of Student Teaching	151 S. Prospect St.
CHARLES FREDERICK THORNE, Ph.D., M.D. Assistant Professor of Psychiatry	Brandon
SHELDON WARD WILLIAMS, Ph.D. Assistant Professor of Agricultural Economics	40 Gilbert St. S. Burlington
LESTER MAHAN FELTON, M.D. Assistant Professor of Clinical Urology	37 Commodore Rd. Worcester, Mass.
ALFRED SMITH O'CONNOR, M.D. Assistant Professor of Clinical Pediatrics	390 Main St. Worcester, Mass.
WILLIAM JOSEPH SLAVIN, M.D. Assistant Professor of Clinical Obstetrics and Gynecology	324 Main St.
FRED HERBERT TAYLOR, Ph.D. Assistant Professor of Botany	29 Adams Ct.
IPPOCRATES PAPPOUTSAKIS, Mus. B. Assistant Professor of Music	109 Summit St.
ROBERT McCRILLIS CARTER, JR., Ph.D. Assistant Professor of Agricultural Economics	172 S. Prospect St.
OSCAR SYLVANDER PETERSON, JR., M.D. Assistant Professor of Radiology	Williston
THOMAS GAETANO MORRIONE, M.D. Assistant Professor of Pathology	305 Maple St.
BRITTEN LITTELL RIKER, Ph.D. Assistant Professor of Psychology	376 College St.

JOHN HUTCHISON LOCHHEAD, Ph.D. Assistant Professor of Zoology	236 S. Prospect St.
MIRIAM NATILEE MARSTON, A.M. Assistant Professor of Music	28 Prospect Hill
MURIEL JOY HUGHES, Ph.D. Assistant Professor of English	342 Pearl St.
ESTHER LUCILE KNOWLES, M.S. Assistant Professor of Home Economics	26 Summit St.
JOHN ERNEST LITTLE, Ph.D. Assistant Professor of Biochemistry (Agr.)	15 N. Williams St.
ERNEST STARK, M.D. Assistant Professor of Pathology	95 Brookes Ave.
DONALD FOSS SMITH, Ph.D. Assistant Professor of Chemistry	98 N. Prospect St.
EDWIN EVERETT HAYS, Ph.D. Assistant Professor of Biochemistry (Med.)	12 Bradley St.
WILLIAM VAN BOGAERT ROBERTSON, Ph.D. Assistant Professor of Experimental Medicine	71 Williams St.
ROBERT ELI LONG, Ph.D. Assistant Professor of Political Science	89 S. Willard St.
JAMES EVANS ROY, M.D. Assistant Professor of Psychiatry	Vermont State Hosp. Waterbury
CARL CHAPIN OSGOOD, M.S. Assistant Professor of Mechanical Engineering	36 East Ave.
*CLARENCE JOSEPH DOUGLAS, B.S. Assistant Professor of Civil Engineering	25 N. Prospect St.
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PHILIP SCHAFFNER BAKER, Ph.D. Assistant Professor of Chemistry	16 Bilodeau Ct.
JULES ALPHONSE LARRIVEE, Ph.D. Assistant Professor of Mathematics	351 Waterman Bldg.
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DOUGLAS TILLMAN McCLAY, Ph.D. Assistant Professor of Mathematics	62 Brookes Ave.
HAROLD SEESSEL SCHULTZ, Ph.D. Assistant Professor of History	Unit 215, Apt. 2 Fort Ethan Allen
ERNEST WILLIAM HARTUNG, Ph.D. Assistant Professor of Zoology	176 Shelburne Rd.

* Resigned January 1, 1947.

The Staff

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PAUL ALBERT BRINKER, M.A. Assistant Professor of Economics	89 S. Willard St.
JOHN WEAVER KING, M.D. Assistant Professor of Bacteriology and Clinical Pathology	36 Lafayette Pl.
THOMAS SPROSTON, JR., Ph.D. Assistant Professor of Botany	225 Maple St.
EDWIN CALVIN SCHNEIDER, M.S. Assistant Professor of Agricultural Engineering	Hinesburg Rd. S. Burlington
MARJORIE ELLINWOOD LUCE, B.S. Assistant Professor of Agricultural Education	230 S. Union St.
JOSEPH BURNHAM KELLY, M.S. Assistant Professor of Agronomy	1 Park Ave. Essex Junction
STUART LYNDE JOHNSTON, Ph.D. Assistant Professor of Romance Languages	41 S. Prospect St.
WILLIAM OSCAR WITHERSPOON, B.A., Major, U. S. Army Assistant Professor of Military Science and Tactics	9 E. Fort Ethan Allen
BURTON PRIMROSE BROWN, JR., M.S. Assistant Professor of Electrical Engineering	398 North St.
DONALD CROWTHER GREGG, Ph.D. Assistant Professor of Chemistry	R. F. D. 1 Burlington
GEORGE CHARLES GROSSCUP, JR., Ph.D. Assistant Professor of Economics	Bldg. 66, Apt. 1 Fort Ethan Allen
JACK TREVITHICK, Ph.D. Assistant Professor of English	Shelburne Rd. S. Burlington
REGINALD VENN MILBANK, B.S. Assistant Professor of Civil Engineering	34 S. Willard St.
*HOWARD MARSHALL SMITH, JR. Assistant Professor of Electrical Engineering	Waterman Bldg.

Instructors

CONSTANCE LORRAINE BROWN, M.S. Instructor in Chemistry	230 S. Union St.
CARL LUCARINI, A.M. Instructor in Chemistry	52 N. Prospect St.
MRS. ISABEL CLARK MILLS, A.M. Instructor in Art	56 Latham Ct.
ERALD FAIRBANKS FOSTER, M.D. Instructor in Public Health	444 S. Willard St.
JOHN CLIFFORD EVANS, B.S. Instructor in Physical Education for Men	72 East Ave.

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HAROLD EDWARD MEDIVETSKY, M.D. Instructor in Clinical Medicine	217 S. Union St.
KATHERINE ELLA McSWEENEY, M.D. Instructor in Clinical Medicine	44 S. Willard St.
†FRED SCOTT KENT, M.D. Instructor in Clinical Medicine	
NATHAN RENWICK CALDWELL, M.D. Instructor in Clinical Radiology	34 N. Williams St.
ALBERT JAMES CRANDALL, M.D. Instructor in Clinical Surgery	Essex Junction
HENRY MAURICE FARMER, M.D. Instructor in Preventive Medicine and Public Health	323 Pearl St.
CHRISTOPHER MARLOWE TERRIEN, M.D. Instructor in Clinical Medicine	217 S. Union St.
LOUIS GEORGE THABAULT, M.D. Instructor in Surgery	71 Main St. Winooski
GEORGE CHANDLER TULLY, M.D. Instructor in Clinical Urology	80 Commodore Rd. Worcester, Mass.
JAMES PATRICK MAHONEY, M.D. Instructor in Clinical Medicine	28 Center St.
JOHN FREDERICK LYNCH, M.D. Instructor in Clinical Surgery	177 S. Union St.
THOMAS PATRICK CUNNINGHAM, M.D. Instructor in Clinical Pediatrics	36 Pleasant St. Worcester, Mass.
NICHOLAS SALVATORE SCARCELLO, M.D. Instructor in Clinical Urology	Selden Rd. Worcester, Mass.
*HYMAN BERNARD LEVINE, M.D. Instructor in Clinical Medicine	231 Maple St.
ROBERT BASCOM AIKEN, M.D. Instructor in Industrial Hygiene	44 University Terr.
JOHN SEELEY ESTABROOK, M.D. Instructor in Clinical Pediatrics	Brandon
ELIZABETH KUNDERT, M.D. Instructor in Psychiatry	Montpelier
MARION HUNTINGTON BROWN, M.S. Instructor in Home Economics	230 S. Union St.
ETHEL PAULINE HOFFMAN, M.S. Instructor in Physical Education for Women	89 Buell St.
JEROME JOSEPH COHEN, M.D. Instructor in Clinical Pediatrics	99 Commonwealth Ave. Worcester, Mass.
J. LOUIS PHILIPPE FOREST, M.D. Instructor in Clinical Psychiatry	Vermont State Hosp. Waterbury

† Military leave.

* Resigned December 1, 1946.

The Staff

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MERVIN FOSSNER, M.D. Instructor in Clinical Pediatrics	804 Pleasant St. Worcester, Mass.
MARSHALL COLEMAN TWITCHELL, JR., M.D. Instructor in Ophthalmology	151 Ledge Rd.
ROBERT DOWNING COX, M.D. Instructor in Clinical Medicine	Belmont Hosp. Worcester, Mass.
CHARLES IVES TAGGART, D.M.D. Instructor in Oral Hygiene and Dental Medicine	139 Bank St.
VIOLA RUSSELL, M.D. Instructor in Home Economics	258 S. Willard St.
HENRY LEE MILLS, D.V.M. Instructor in Public Health	339 Colchester Ave.
EDWARD LAWRENCE TRACY, B.S. Instructor in Public Health	37 Ledgemere St.
JEANNE MARGARET EULER, B.S. Instructor in Physical Education for Women	89 Buell St.
FRANCIS PEABODY COLBURN, Ph.B. Instructor in Art	359 College St.
CLAIRE WALTER, B.S. Instructor in Bacteriology and Clinical Pathology	108 S. Willard St.
LOUIS WILLIAM ESPOSITO, M.D. Instructor in Urology	Rutland
UBALDO EDWARD ZAMBARANO, M.D. Instructor in Clinical Medicine	State Sanitarium Wallum Lake, R. I.
MARGUERITE KINGSBURY, M.D. Instructor in Medicine	53 Brookes Ave.
MRS. LOIS BROWN STOKES, M.N. Instructor in Nursing	79 Buell St.
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PAUL GREEN LeFEVRE, Ph.D. Instructor in Physiology	403 Colchester Ave.
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ANDREW JOHN LANDA, Staff Sgt. U. S. Army Instructor in Military Science and Tactics	Richmond
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ARTHUR FREDERICK TUTHILL, M.S. Instructor in Mechanical Engineering	78 E. Fort Ethan Allen
RALPH DANIEL SUSSMAN, M.D. Instructor in Pediatrics	10 S. Willard St.
CARLETON LESLIE HOLMES, B.S. Instructor in English	168 N. Winooski Ave.
ALAN ROBERTS, M.A. Instructor in Romance Languages	196 S. Willard St.
JOHN PORTER MARBARGER, Ph.D. Instructor in Physiology	78 W. Fort Ethan Allen
CALVIN WARREN TOOLES, B.S. Instructor in Mechanical Engineering	234 Pearl St.
AMORY DAVISON SEAVER, Ed.M. Instructor in Mathematics	Middlebury
ANNA CAROLYN SCHOLL, M.N. Instructor in Nursing	325 College St.
ROBERT GLENN TEMPLETON, B.S. Instructor in English	555 Shelburne Rd.
MERRILL DUSTIN POWERS, B.S. Instructor in Mathematics	22 Ledgemere St.
ELIZABETH PAULSEN, M.S. Instructor in Zoology	242 S. Winooski Ave.
SAMUEL NATHANIEL BOGORAD, Ph.D. Instructor in English	61 N. Prospect St.
CLINTON DANA COOK, JR., S.B. Instructor in Chemistry	Shelburne
DAVID POWELL HACKETT, B.S. Instructor in Chemistry	74 Henry St.
DONALD HOLDEN HARWOOD, M.D. Instructor in Pharmacology	55 Cliff St.
CHARLES HARRY HOHNER, A.M. Instructor in English	179 N. Prospect St.
DAVID BRADFORD HOPKINSON, B.S. Instructor in Mechanical Engineering	Bldg. 247 Fort Ethan Allen
MARYALICE KELLY, B.A. Instructor in Home Economics	376 College St.
MORRIS WELLESLEY KENFIELD, B.S. Instructor in Mechanical Engineering	Fort Ethan Allen
JOSEPH EARL LEDDEN, Ph.D. Instructor in Philosophy	270 Main St.
DONAT GERARD MAYNARD, Ph.B. Instructor in Physical Education	Spear St. Shelburne
CHARLES MERRITT, JR., A.B. Instructor in Chemistry	Shelburne

The Staff

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LOUISE ADELE RAYNOR, Ph.D. Instructor in Botany	54 S. Willard St.
FLAVIA LUCILE RICHARDSON, Sc.D. Instructor in Histology	54 S. Willard St.
ALICE LOOMIS ROBERTSON, A.B. Instructor in Chemistry	231 S. Prospect St.
JANICE SHIVELY, Mus.B. Instructor in Music	15 N. Williams St.
ROBERT FREDERICK STOEL, M.A. Instructor in English	34 S. Willard St.
WAINO WILGO SUOJANEN, M.B.A. Instructor in Economics	25 S. College
NORMAN KENNETH STRASSBURG, B.S. Instructor in Physical Education	162 Home Ave.
ROBERT BENNING WENTWORTH, M.Ed. Instructor in Economics	Fort Ethan Allen
SADAH SHACHURI START Instructor in Music	Montpelier
HARRIET PEARSON DUSTAN, M.D. Instructor, College of Medicine	Bishop DeGoesbriand Hosp.
HARRY JUNIOR BANAN, 1st Sgt., U. S. Army Instructor in Military Science and Tactics	Fort Ethan Allen
CHESTER FRANK SENTENEY, 1st Sgt., U. S. Army Instructor in Military Science and Tactics	Fort Ethan Allen
EMIL ZYCHOWSKI, Master Sgt., U. S. Army Instructor in Military Science and Tactics	Apt. 213, 7-D Fort Ethan Allen
RONALD HUGH HUMPHREY, M.A. Instructor in Dramatics	Fort Ethan Allen
WINSTON MILO EDDY, M.D. Instructor in Clinical Medicine	258 Pearl St.
ALDO GINO FRANCESCHI, M.D. Instructor in Surgery	163 S. Union St.
JOHN BACHELDER COLLINS, Master Sgt., U. S. Army Instructor in Military Science and Tactics	Y.M.C.A.
*BETTY BANDEL, B.Mus. Instructor in English	43 Mansfield Ave.
*MRS. EILEEN GALVIN MCGINLEY, M.Ed. Temporary Instructor in English	Essex Junction
*ALBERT W. WURTHMANN Instructor in German	34 S. Willard St.
*THEODORE AUGUR KOCH, M.S. Instructor in Chemistry	St. Michael's College

* Appointed January 1, 1947.

*CHARLES ELLSWORTH CARVER, JR.
Instructor in Civil Engineering

95 S. Union St.

*LYMAN LESLIE GROW, Ph.B.
Instructor in Romance Languages

Essex Junction

ASSISTANTS IN INSTRUCTION AND RESEARCH

MARY FRANCES MADIGAN
Assistant in Elementary Education

120 Buell St.

JOHN HENRY SUITOR, Ph.B.
Assistant in English

368 S. Union St.

WALTER HARDING MAURER, B.A.
Assistant in Classical Languages

79 S. Willard St.

ROGER GREENWOOD COOLEY, B.S.
Assistant in History

Shelburne Rd.

VELMA ANNA COCHRAN, Ph.B.

216 S. Prospect St.

HELEN DRUGG, A.B.

146 Williams St.

GLORIA BARBARA PICA, B.S.
Assistants in Zoology

North Converse Hall

MRS. CAROL ROSE BURRITT, B.S.
Research Assistant in Anatomy

368 Main St.

REGINALD FREDERICK KRAUSE, Ph.D.
Research Associate in Biochemistry

58 N. Union St.

MRS. FRANCENA CLARK GALBRAITH

355 S. Union St.

MRS. HATTIE K. KAPLAN

295 Maple St.

MRS. RUTH M. LAW, B.S.

Fort Ethan Allen

Research Assistants in Biochemistry

ANN RUTH BAKER

154 Sumfrit St.

EMILY ELLEN FLANAGAN, B.S.

12 Bradley St.

BARBARA ALICE MOORE

100 S. Union St.

Assistants in Biochemistry

J. SANBORN BOCKOVER, M.D.

Waterbury

WILLIAM HENRY HEININGER, M.D.

37 Buell St.

JOHN HENRY McCREA, M.D.

Winooski

JOANNA METCALE, M.D.

Waterbury

JOHN T. WRIGHT, M.D.

Waterbury

Assistants in Medicine

MRS. CHERYL PARKHURST

179 Loomis St.

Research Assistant in Physiology

CLARENCE EDWARD BOMBARD, M.D.

16 St. Paul St.

Assistant in Surgery

FRANK WOODRUFF, M.D.

Bishop DeGoesbriand Hosp.

Resident in Surgery

* Appointed January 1, 1947.

FELLOWS

BERNARD BENJAMIN BARNEY, M.D.

ANTHONY JOSEPH BAYUK, M.D.

ERNEST LEE MILLS, M.D.

Anesthesiology

ROY VEDDER BUTTLES, M.D.

JOYCE WALTER KINGSLEY, JR., M.D.

Medicine

LESTER JULIAN WALLMAN, M.D.

Neurosurgery

MARY LORRAINE GANNON, M.D.

JAMES HUGH GRAHAM, M.D.

ROBERT ELLIS JOHNSTONE, M.D.

WILLIAM GORDON MULLIN, M.D.

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WILLIAM ARTHUR PRATT, M.D.

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NORMAN KEMLER, M.D.

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DEFOREST EMMETT HALE, M.D.

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RAY WILLISTON COLLINS, JR., M.D.

HENRI LOUIS PACHE, M.D.

BERNARD CHESTER RUBINO, M.D.

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PLATT RUGAR POWELL, M.D.

Urology

Bishop DeGoesbriand Hosp.

349 College St.

481 St. Paul St.

457 S. Willard St.

Fort Ethan Allen

Fort Ethan Allen

44 S. Willard St.

Waterbury

272 Pearl St.

67 N. Union St.

164 Home Ave.

179 N. Prospect St.

171 N. Winooski Ave.

Trailer Camp No. 37

Fort Ethan Allen

Mary Fletcher Hosp.

272 Pearl St.

Fort Ethan Allen

Mary Fletcher Hosp.

LECTURER

AARON HINMAN GROUT, Ph.B.

Lecturer in Medical Jurisprudence

282 S. Prospect St.

Supervisors of Student Teaching

LYMAN CURTIS HUNT, A.M.

GEORGE ROLLIN STACKPOLE, A.M.

MRS. JENNIE S. DONALDSON

ARTHUR PIERRE COUTURE, A.M.

CATHERINE C. CARTIER

MARY K. McDERMOTT

MRS. MARGARET SEARS COTEY

45 University Terr.

Winooski

Cabot

Winooski

153 Park St.

25 Nash Pl.

72 Catherine St.

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Elihu B. Taft School, Burlington

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Grade 1—RUTH A. SPOONER

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Grade 3—IVIS B. FLINT

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Colchester Point School, Colchester

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Agricultural Education

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Supervisor and Teacher Trainer

63 Harrington Terr.

Homemaking Education

MARION H. BROWN, M.S.
Supervisor and Teacher Trainer

230 S. Union St.

HELEN IONE BROWN, B.S.
Demonstration Teacher

Essex Junction

Trade and Industrial Education

HARRY JAMES PATTERSON, B.S.
State Teacher Trainer and State Supervisor

Shelburne Rd.
S. Burlington

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JOHN SCHOFF MILLIS, Ph.D., LL.D. President of the University	25 Colchester Ave. Waterman Building
ELIJAH SWIFT, Ph.D. Dean of the College of Arts and Sciences	415 S. Willard St. Waterman Building
JOSEPH EDWARD CARRIGAN, A.M., LL.D. Dean of the College of Agriculture; Director of the Agricultural Experiment Station; Director of the Agricultural Extension Service	188 Loomis St. Morrill Hall
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EDD RUTHVEN MCKEE, M.S., E.E. Dean, College of Technology	42 Henderson Terr. Waterman Building
BENNETT COOPER DOUGLASS, Ph. D. Director of the School of Education and Nursing, and of the Summer Session	122 Summit St. Waterman Building
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ORVILLE DAHL, B.S. Dean of Administration	57 Mansfield Ave. Waterman Building
HARRY ROSS VARNEY, Ph.D. Associate Dean of the College of Agriculture; Associate Director of the Agricultural Experiment Station; Associate Director of the Agricultural Extension Service	502 North St. Morrill Hall
PROCTOR HULL PAGE, LL.B. Treasurer and Business Manager	100 DeForest Rd. Waterman Building
FORREST WILKINS KEHOE, B.S. Superintendent of Buildings and Grounds, Purchasing Agent, and Associate Registrar	101 Overlake Pk. Waterman Building
DAVID WILLIAM DAVIES, M.A. Director of University Libraries	Fort Ethan Allen Billings Library
GEORGE VINCENT KIDDER, Ph.D. Administrative Secretary	206 Summit St. Waterman Building
ROBERT HAYDEN KROEPSCH, Ed.M. Registrar	233 Pearl St. Waterman Building
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HORACE BYRON ELDRED Acting Director, Fleming Museum	Queen City Park Fleming Museum
ARTHUR DEXTER BUTTERFIELD, D.Eng. Associate Director, Veterans' Education	479 Main St. Waterman Building

ELBRIDGE CHURCHILL JACOBS, S.B., A.M. Curator of Geological and Mineralogical Collections	146 Williams St. Fleming Museum
WILLIAM LAWRENCE GARDNER, B.S. Director of Athletics	17 Overlake Pk. Gymnasium
EDWIN BARTLETT ABBOTT Chief Accountant	31 S. Prospect St. Waterman Building
RUTH LORETTA GODFREY, M.S. Director of Food Services	376 College St. Waterman Building
THEODORE HENRY HARWOOD, M.D. Director Student Health Service; Director of Dispensary	55 Cliff St. Infirmary
NELL JEFERSON, M.S. Director of Dormitories	Redstone Waterman Building
OLGA BROOKS DITTIG, M.A. Senior Psychometrist	Spear St., S. Burlington Waterman Building

ASSISTANTS IN ADMINISTRATION

LEON W. DEAN, A.B. Director of Publicity	308 S. Prospect St. Waterman Building
MRS. LAURA LOUDON Assistant in News Bureau	19 Silver Ct. Waterman Building
ANNA CAROLINE SMITH, Ph.B. Secretary to the President	153 S. Prospect St. Waterman Building
ANNIS ORRILLA BARNEY, Ph.B. Manager of the University Store	33 S. Prospect St. Waterman Building
MARGARET MARY WING, B.S. Assistant Dean of Women	Middle Converse Hall Waterman Building
MARGUERITE KINGSBURY, M.D. Director Women's Health Service	53 Brookes Ave. Infirmary
GRACE AUGUSTA MILLER, B.S. Director Waterman Cafeteria	376 College St. Waterman Building
ALAN GRANT KENNEDY Assistant Accountant	Colchester Waterman Building
GEORGE NAY CLERKIN Assistant Accountant	60 N. Prospect St. Waterman Building
MRS. MARGARET HAZEN MULLER, Ph.B. Loan Officer	61 Harrington Terr. Waterman Building
GLADYS FLINT, A.B. Assistant Librarian	29 S. Prospect St. Billings Library
MRS. DORIS JEAN HARVEY Assistant in charge of Wilbur Library	272 Colchester Ave. Fleming Museum
MRS. JOAN ECKLER, B.A. Assistant in charge of Medical Library	27 Loomis St.

HELENA NORTON Chief Cataloguer	10 Loomis St.
EDWIN BROWN ADAMS, M.S.	388 Pearl St.
MERRITT G. BRADFORD	103 N. Union St.
LUCILLE DAVIS	19 Fletcher Pl.
MRS. ELLEN GILLIES	308 Pearl St.
JESSIE S. GUTTERSON	28 Brookes Ave.
WALLACE A. HARDING	834 North Ave.
MRS. RUTH W. PERKINS, M.A.	360 College St.
MARYLEE RUSSELL, A.B.	14 University Terr.
ERROL C. SLACK, Ph.B.	24 University Terr.
MRS. JOHN S. WILLIAMS	Fort Ethan Allen
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HELEN BARNES SHATTUCK, A.B. Librarian, Billings Library	308 Pearl St.

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PROCTOR HULL PAGE, LL.B. Treasurer	100 DeForest Rd.
EDWIN BARTLETT ABBOTT Chief Accountant	31 S. Prospect St.

ALAN GRANT KENNEDY
Assistant Accountant

Colchester

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Associate Agricultural Economist

40 Gilbert St.

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

172 S. Prospect St.

ALAN MacLEOD, M.S.
Collaborator

Beach Hall
Storrs, Conn.

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ROBERT EMMET FENIX, B.S.
Research Assistants

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106 N. Willard St.

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ALVIN REES MIDGLEY, Ph.D.
Agronomists

Appletree Point
41 University Terr.

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

Underhill Center
5 School St.
Essex Junction

Animal and Dairy Husbandry

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

55 Robinson Pkwy.

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

26 Robinson Pkwy.
45 University Terr.

HOWARD CHESTER DICKEY, Ph.D.
Associate in Dairy Production

19 School St.

JAMES MARSHALL FRAYER, M.S.
Associate Dairy Bacteriologist

281 S. Winooski Ave.

ROBERT DOUGLAS MacCURDY, M.S.
Assistant in Dairy Manufactures

R. F. D.
Williston Rd.

Animal Pathology

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

R. F. D.
Hinesburg Rd.

JOHN HAMILTON GUTTERIDGE, D.V.M.
Assistant Animal Pathologist

22 Greene St.

Botany

JAMES WALLACE MARVIN, Ph.D.
Botanist

Spear St.
S. Burlington

ALEXANDER GERSHOY, Ph.D.
Associate Botanist

126 N. Willard St.

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Associate Forester

36 Overlake Pk.

FRED HERBERT TAYLOR, Ph.D.

29 Adams Ct.

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Assistant Botanists

225 Maple St.

CHARLES CONRAD LARSON, M.S.
Assistant Forester

43 N. Willard St.

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CHARLES HOWLAND JONES, M.S.
Chemist (Retired)

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JOHN ERNEST LITTLE, Ph.D.

15 N. Williams St.

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Assistant Chemists

Shelburne

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FLORANCE B. KING, Ph.D.
Nutritionist

371 Pearl St.

MARIANNE MUSE, M.S.
Home Economist

155 S. Prospect St.

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

102 Summit St.

Horticulture

CHARLES HUGO BLASBERG, M.S.
Horticulturist

120 Robinson Pkwy.

Publications

JOHN WALLACE SPAVEN, B.S.
Editor

242 S. Winooski Ave.

LEROY JAMES DOPP, JR.
Administrative Clerk

10 Lafayette Pl.

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LOUIS BLACKMER PUFFER, C.E.	176 Loomis St.
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Mechanical Engineering

ROBERT GORHAM CHAPMAN, M.M.E.	Essex Center
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Specialists

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JOHN HAMILTON GUTTERIDGE, D.V.M. Assistant Animal Pathologist	22 Greene St.
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MRS. ELIZABETH EMMONS ROBINS, B.S. Lamoille County	Morrisville

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ALAN GRANT KENNEDY Assistant Accountant	Colchester

Animal and Dairy Husbandry

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

Animal Pathology

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

GORDON HORATIO GATES, M.Ed.
Farm Superintendent

University Farm

Horticulture

CHARLES HUGO BLASBERG, M.S.
Horticulturist

120 Robinson Pkwy.

Regulatory Service

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Chemist (Retired)

395 College St.

EUGENE FIELD BOYCE, B.S.
Assistant Chemist

Coates Island

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

111 N. Prospect St.

WILLIAM GERALD YANDOW, Ph.B.
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Essex Junction

The Summer Session, 1946

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Dean of Women

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Normal School, Castleton

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Professor of Business Administration,
College of the City of New York

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Instructor in Music

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Instructor in French

DOROTHY RUEF, Ph.D.

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Superintendent of Schools, Windsor,
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MARY RUSSELL, M.S.

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Women

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Demonstration Teacher, High School,
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ERNEST F. WALLER, M.S.

Professor of Animal Pathology

FLORENCE M. WOODARD, Ph.D.

Associate Professor of Economics

LLOYD A. WOODWARD, M.S.

Assistant Professor of Physics

General Information

HISTORY

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

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

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

BUILDINGS AND GROUNDS

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

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

Ira Allen Chapel, named for the founder and given by James B. Wilbur of Manchester, Vt.,
Billings Library, gift of Frederick Billings of Woodstock,
Robert Hull Fleming Museum, given by James B. Wilbur, Miss Katherine Wolcott, niece of Mr. Fleming, and six other friends of the University,
Morrill Hall, erected by the State in honor of Justin S. Morrill,
Slade Hall, the gift of Mrs. William Gerry Slade,
Mabel Louise Southwick Memorial, women's activity building, given in honor of Miss Southwick,
Waterman Memorial, built from the large estate given the University by the Hon. Charles W. Waterman of Denver, Col.,
Williams Science Hall, the gift of Dr. Edward H. Williams of Philadelphia,
Art Center, formerly the Park Gallery of Art and more recently the Engineering Annex, offering facilities for expanded activity in Art,
Engineering Building,
Gymnasium,
Medical College,
Old College Building,
Music House,
Eight dormitories, for men and women.

THE SEISMOGRAPH STATION

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

DORMITORY FOR MEN

CONVERSE HALL (*Erected 1895*)

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

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

WOMEN'S DORMITORIES AND DINING HALLS

All women students enrolled in undergraduate courses are required to procure rooms approved by the University. Applications should be made early to the Dean of Women. Rooms in college dormitories are rented for the entire year. An initial payment of five dollars is required to make an advance reservation. This is applied later on the room rented. 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 \$50 per quarter per occupant, single rooms \$65. Students living in college owned dormitories board at the Waterman Dining Hall or Robinson Hall. The price for board is \$105 per quarter.

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

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

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

THE WASSON MEMORIAL INFIRMARY

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

The infirmary operates under the following regulations:

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

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

EXPENSES AND FEES

EXPENSES IN ACADEMIC COLLEGE PER QUARTER

Matriculation Fee (new students only).....	\$ 5.00
Tuition Fees (for exceptions, see below).....	117.00
Student Activity and Health Fee.....	12.00
Textbooks and Supplies.....	15.00 to 20.00
Laboratory Fees	None to 15.00
Room Rent in Dormitories.....	45.00 to 65.00
Board in Dining Halls, for girls.....	At present 105.00

Average Total About \$300.00

MATRICULATION FEE

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

TUITION FEES

A tuition fee of \$117.00* (\$116.00 for the spring quarter) is due and payable at the opening of each quarter in the College of Arts and Sciences, in the College of Technology, in the School of Education and Nursing except for residents of Vermont enrolled in the Elementary and Junior High School Education Curricula, and in the College of Agriculture except for those who are residents of Vermont. In the College of Agriculture the tuition charge for regular, undergraduate students who are residents of Vermont is reduced to \$50.00 per quarter through a tuition scholarship of \$200.00 per academic year granted such students by the State. The State enactment also provides that "any student transferring from courses

* Effective July 1, 1947, the tuition fee for students who are not residents of Vermont will be \$134 for the summer and fall quarters, \$133 for the winter and spring quarters.

in agriculture and home economics to other courses within the University, or to another educational institution, shall refund to the treasurer of the University . . . any sums which have been received as scholarships under this section, unless excused therefrom by the president."

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

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

THE DEPARTMENT OF EDUCATION. For information concerning the tuition fees of students in Elementary Education, see page 162.

THE COLLEGE OF MEDICINE. The tuition fee is \$200 each semester for Vermont students and \$325 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. An application fee of \$10 is charged each applicant for admission.

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

EXTENSIONS AND REFUNDS. Extensions, when necessary, may be arranged with the Treasurer. However, any charges so deferred, or incurred during the quarter, must be paid or provided for by arrangement satisfactory to the Treasurer before students may take their quarter examinations.

Refunds of tuition to students who withdraw during a quarter are made as follows:

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

STUDENT ACTIVITY AND HEALTH FEES

All classified students in the Colleges of Arts and Sciences, of Technology, and of Agriculture, and in the School of Education and Nursing pay at the opening of each quarter an inclusive fee of \$12.00. Of this amount \$3.33 is designated as a Health and Infirmary fee, \$2.67 as a Physical Education fee, and \$6.00 as a Student Activity fee. The last covers the support of recognized student organizations and activities and is controlled and allocated by Student Government. Graduate students, special and unclassified students, and students in the Medical College may, by paying the Student Activity fee of \$6.00 per quarter, become entitled to the benefits other students receive for this fee.

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

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

LABORATORY, STUDIO AND PRACTICE TEACHING FEES

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

SUBJECT	FEE EACH QUARTER
Agricultural Economics 3.....	\$ 2.50
Agricultural Engineering 16.....	4.00
Agronomy 2, 5.....	2.50
Agronomy 8, 11, 14, 23, 103.....	3.00
Animal and Dairy Husbandry 2, 3, 5, 109, 112, 115, 119.....	2.50
Animal and Dairy Husbandry 9, 100, 105, 106, 107, 108.....	5.00
Animal and Dairy Husbandry 12, 104.....	4.00
Animal Pathology 3, 10.....	2.00
Art 11, 12, 13.....	1.00
Art 21, 22, 23, for two hours credit \$1.50, for three hours.....	2.00
Botany 1, 2, 3, 4, 5, 6, 104, 105, 107, 108, 109, 131, 132.....	1.50
Botany 101, 102, 113, 125, 128, 129.....	2.00
Botany 111, 117, 120, 121, 122.....	4.00

General Information

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Chemistry 1, 2, 3, 4, 5, 20, 21, 22, 101, 102, 103, 104, 105, 106, 110, 111, 112, 144.....	3.50
Chemistry 6, 7.....	2.50
Chemistry 10, 11.....	7.50
Chemistry 143, 198, 199.....	5.00
Economics (Secretarial) 49, 50, 51.....	15.00
Economics (Secretarial) 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63.....	5.50
Education, Elementary, for all students except freshmen.....	1.00
Education, Elementary, 4, 5.....	1.00
Education, Secondary, 108, 109.....	5.00
Education, Secondary, 110.....	1.00
Engineering, Civil, 54 off campus \$15.00, on campus.....	6.00
Engineering, Civil, 162.....	2.00
Engineering, Civil, 172.....	4.00
Engineering, Electrical, 54, 55, 101, 102, 103, 107, 108, 110, 157, 159, 161, 162, 163, 164.....	2.00
Engineering, Electrical, 109, 153, 154, 155.....	4.00
Engineering, Mechanical, 51, 52, 53, 71, 101, 169, 171.....	4.00
Engineering, Mechanical, 116, 143, 161, 162, 163, 168.....	2.00
Geology 1, 2, 3, 10, 11, 12.....	2.50
Home Economics	
Clothing and Textiles 1, 2, 3, 4, 6, 103, 104, 105, 106, 111.....	2.50
Food and Nutrition 51, 52, 53.....	3.50
Food and Nutrition 54, 103, 105, 106.....	3.00
Food and Nutrition 101, 110.....	5.00
Home Economics Education 102.....	10.00
Housing 51, 101, 104.....	2.50
Horticulture 3, 4, 10, 13, 100.....	2.50
Horticulture 7.....	2.00
Physics 1, 2, 3.....	2.00
Physics 11, 12, 13, 121, 141, 142, 143, 151, 152, 153, 161, 162, 163, 171, 172, 173, 181, 182, 183.....	4.00
Poultry Husbandry 1.....	25.00
Poultry Husbandry 2, 5, 14, 15, 102.....	5.00
Poultry Husbandry 8.....	3.00
Zoology 1, 4.....	2.50
Zoology 2, 104, 109.....	3.00
Zoology 3, 23.....	5.00
Zoology 103.....	announced annually

DEGREE FEES

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

SPECIAL FEES

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

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

COLLEGE OF TECHNOLOGY. A fee of \$15.00 a session is charged for the Engineering Summer Camps. The actual cost of repairing or replacing engineering laboratory equipment damaged through improper or careless use will be charged to the students responsible.

APPLIED MUSIC FEES

PIANO, ORGAN, VIOLIN AND SINGING

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

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

STUDENT AID

Only part of the cost of the student's education is met by student fees. The balance is met from the income on endowment, State and Federal appropriations, and from current gifts. In this way, the University furnishes from one hundred to nine hundred dollars a year toward the education of each student, a total of four hundred dollars or more for

each four-year student. In addition, the University provides in the form of scholarships, employment, and loans such financial aid as its resources permit to students who cannot otherwise meet the charges. Application for such aid should be made to the Student Aid Committee on forms which may be obtained at the Dean's Office or the Registrar's Office.

*SCHOLARSHIPS

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

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

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

†*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. Sixty at \$120 each, for students in the College of Arts and Sciences, the College of Technology, and the School of Education and Nursing, awarded by members of the Vermont Senate. Apply to a senator from your county.

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. Five annually of \$200 each are offered to freshmen who are residents of states other than Vermont. Appointees will

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

† Suspended temporarily.

study Greek and Latin, either as major subjects or as background for other work. Applicants must have completed at least three years of preparatory Latin with honor grades. The scholarships will be continued through the college course for those who maintain the required standard of scholarship and continue the study of Greek and Latin. Address inquiries to Professor L. M. Prindle, 380 Maple Street, Burlington, Vt.

*LOAN FUNDS

Loan funds are apportioned annually to needy and deserving students, permitting them 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 85 or above for the work of the sophomore and junior years, may become an applicant for Special Honors in a particular subject. His program for the senior year must be approved not

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

later than the end of the junior year by the department in which Honors are sought and by the Committee on Honors, and he must present a satisfactory thesis and pass an oral examination on the field of special study.

DEANS' LISTS

The Deans of the three academic colleges publish at the beginning of each quarter the names of those students who have attained an average of at least 85 in their college credit courses during the preceding quarter.

PHI BETA KAPPA

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

DEGREES

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

COLLEGE OF ARTS AND SCIENCES

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

PRE-MEDICAL CURRICULUM (3 YRS.) AND MEDICINE (1 YR.); *Bachelor of Science* (B.S.)

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

COLLEGE OF TECHNOLOGY

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.)

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.)

SCHOOL OF EDUCATION AND NURSING

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

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

*JUNIOR HIGH SCHOOL EDUCATION CURRICULUM; *Bachelor of Science in Education* (B.S. in Ed.)

MUSIC EDUCATION CURRICULUM; *Bachelor of Science in Music Education* (B.S. in Mus.Ed.)

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

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

GRADUATE DEPARTMENT

Master of Arts (M.A.); Master of Science (M.S.); Master of Education (M.Ed.); Civil Engineer (C.E.); Electrical Engineer (E.E.); Mechanical Engineer (M.E.)

COLLEGE OF MEDICINE

MEDICAL CURRICULUM; *Doctor of Medicine (M.D.)*

* Given in cooperation with the Vermont State Board of Education.

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 Engineering curricula of this University, require evidence of high professional achievement for at least four years, supplemented by an approved thesis.

ADMISSION TO GRADUATE STUDY

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

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

Because of the individual nature of most graduate study, the number of candidates selected to specialize in any one department must be limited. Only applicants who desire to work along lines in which the University offers advantages will be accepted.

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.

RESIDENCE

Each candidate for a Master's degree must study in residence at the University of Vermont at least three quarters, or five summer sessions, except that a thesis written under the supervision of a faculty member may be accepted in lieu of one summer of residence. Transfer of credit for courses taken in residence in other institutions can not reduce the residence requirement below the minima specified.

Individual departments may require a longer period of residence than the minima stated above; the departments of Biochemistry, Chemistry, and Physics normally require a minimum of two years. Inadequate prepa-

ration in the field in which the student elects to specialize may necessitate the taking of undergraduate courses and the consequent prolongation of the period of residence. Holders of fellowships or assistantships 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.

TIME LIMIT

Study for the Master's degree must be completed (1) within a span of three years if pursued during the regular academic year (in special cases credits earned outside this limit may be re-evaluated, and accepted or rejected, by the Executive Committee of the Graduate Council), (2) within a span of seven years if pursued during summer sessions. For students who began graduate study prior to World War II and who subsequently served in the armed forces the time limit may be extended by the length of time of such service in the armed forces. This time limit applies to study at the University of Vermont and to courses taken in other institutions and presented for transfer of credit.

TRANSFER OF CREDIT

Not more than twelve quarter hours of credit (or the equivalent thereof) for graduate courses taken in other institutions can be transferred for credit toward the Master's degree. Such courses must have been taken in an accredited college or university offering graduate study and must be acceptable toward graduate degrees in that institution. Credit cannot be transferred for (1) courses which would not, if taken at the University of Vermont, receive graduate credit, (2) courses in which a grade lower than eighty percent (B—) was received, (3) extension courses given by institutions other than the University of Vermont, (4) correspondence courses.

EXTENSION COURSES

Not more than twelve quarter hours of credit toward the Master's degree may be earned by taking extension or adult education courses offered by the University of Vermont. Such courses must meet specifications established by the Graduate Council; information as to these specifications may be obtained from the Director of Graduate Study.

APPROVAL OF CANDIDACY FOR DEGREES

Permission to receive graduate credit for courses does not necessarily imply acceptance of a student as candidate for an advanced degree at the University of Vermont. Students who desire to be candidates for the

Master's degree must have their candidacy approved by the Director of Graduate Study.

FEEES

The matriculation fee and tuition charges are the same as for undergraduate students, provided, however, that a student who takes more than a year to complete the requirements, because of working on a part-time schedule, will be charged no more than one year's tuition. 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 \$1,100 (part 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 \$1,200 each, without exemption from the tuition fee, are awarded each year to research assistants in the Experiment Station who are working for the Master's degree. The recipient of a fellowship is expected to devote half-time each year to study for his degree, paying one-half of the regular tuition, and half-time to work for the station. All such awards are made on recommendation of the Station Director.

THE GEORGE H. WALKER DAIRY FELLOWSHIP

This fellowship provides a stipend of not less than \$700, with exemption from the tuition fee. It is available to graduate students who during their undergraduate course have studied "agriculture, chemistry, and bacteriology" and who desire to study the problems relating to the production of a sanitary milk supply on comparatively small plants and farms. The endowment of ten thousand dollars is sufficient to provide a fellowship every third year.

SCHOLARSHIP AID

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

REQUIREMENTS FOR DEGREES

MASTER OF ARTS AND MASTER OF SCIENCE

FIELD OF SPECIALIZATION. In judging the attainments of candidates, 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. Each department will require of its students such courses and assigned readings as may be deemed necessary to their graduate education.

Each student will undertake a problem of original research under the direction of a member of the department in which he is specializing. At the conclusion of the investigation the student must present a thesis embodying the results obtained and demonstrating his capacity for independent research. The thesis must be suitably bound for deposit in the University library. The thesis must be presented not less than two weeks prior to the commencement at which it is hoped the degree may be conferred.

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.

Certain departments have established requirements in addition to those stated here; students seeking to specialize in these departments will be furnished information concerning such requirements.

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. In this field students will be required to take at least nine quarter hours of courses approved for graduate credit.

MASTER OF EDUCATION

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

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

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

If a student's preparation in Psychology or Education is insufficient additional undergraduate courses in these fields may be required.

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

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

PROFESSIONAL DEGREES

The advanced degrees of Civil Engineer, Mechanical Engineer, and Electrical Engineer may be conferred upon graduates in the Engineering curricula 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 Technology 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 Technology and by the Executive Committee of the Graduate Council.

UNIVERSITY EXTENSION

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

The Extension work includes:

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

THE SUMMER SESSION

A Summer Session is maintained each year for a period of six weeks. Subjects offered include Art, Botany, Chemistry, Commercial Subjects, Dramatic Art, Economics, Education, English, French, Geography, German, History, Home Economics, Industrial Arts, Italian, Latin, Mathematics, Music (instrumental and vocal), Philosophy, Physical Education,

Physics, Political Science, Psychology, Spanish, and Zoology. The school is intended to meet the needs of various groups of students, such as:

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

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

EDUCATIONAL CONFERENCES

TEACHERS' CONFERENCE

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

The project is a part of the University's contribution to the effort which is being made by the various educational forces of the State to improve our institutions of all grades from the primary school to the college and the University. In selecting a topic for the conference an effort is made to look to the future and anticipate the problems which Vermont must consider. The aim is to bring to the teachers of the State, year by year, expert reports and opinions relating to some of our many serious educational problems. This conference is held in connection with the convention of the Champlain Valley Teachers' Association.

HEALTH, PHYSICAL EDUCATION, ATHLETICS

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

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

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

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

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

RELIGIOUS LIFE

The University, although not affiliated with any denominational body, provides a rich program of religious activities. Formal courses of instruction are offered in the College of Arts and Sciences in the History of Religion and the Jewish-Christian Tradition.

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 secretarian 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.

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. Under Student Government is the Student Court, consisting of representatives of each of the undergraduate colleges, which tries such problems of discipline and social conduct as are designated to it by the Executive Committee and the University Council.

STUDENT ADVISORY COMMITTEE

The Student Advisory Committee, a committee of the University Senate, is authorized by the Senate to have oversight of organizations and activities of students, to meet with them, and to advise them as seems desirable. A subcommittee of women acts in an advisory capacity to the Women's Student Union, and a subcommittee of men similarly to Student Government.

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, Staff and Sandal, has twelve members, elected by the junior class from its outstanding leaders.

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

Hillel Club
Newman Club
Vermont Christian Association
Y. W. C. A.

STUDENT GOVERNING BODIES

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

SOCIAL GROUPS

Ten Fraternities
Independents
Eight Sororities

HONORARY SOCIETIES

Alpha Zeta
Boulder
Cap and Skull
Champlain Sabers
Gold Key
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

DEPARTMENTAL CLUBS

Aggie Club
A. I. E. E.
A. S. C. E.
A. S. M. E.
Future Farmers
Home Economics Club
International Relations Club
Osler Club

DRAMATICS

Dramatic Club
Kake Walk
University Players

MUSIC

R. O. T. C. Band
University Choir
University Orchestra

LANGUAGE

Goodrich Classical Club
Le Cercle Français
Spanish Club

MEN'S ATHLETIC ASSOCIATION

Baseball
Basketball
Bowling
Boxing
Fencing
Football
Golf
Handball
Hexathlon Championship
Hockey
Outing Club
Rifle
Skating
Skiing
Softball
Swimming
Tennis
Track
Volleyball
Wrestling

Bowling
Dance Workshop
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

WOMEN'S ATHLETIC ASSOCIATION

Archery
Badminton
Basketball

MISCELLANEOUS

Federal Inspection
Junior Week
Senior Week
Photography Club

PUBLICATIONS

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

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

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

SCHOLASTIC REPORTS

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

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

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

GRADING SYSTEM

Scholarship is graded on a percentage scale. Grades are reported and recorded numerically. The minimum passing grade in the undergraduate colleges is 60; any grade lower than 60 represents a failure and indicates that the course must be repeated if credit is to be obtained.

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 Freshman English has been passed.

Admission

* THE ACADEMIC COLLEGES

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

1. The recommendation of the school principal.
2. The candidate's rank in his graduating class.
3. The school record of courses completed.
4. Such tests as may be required by the Director of Admissions.
5. A personal interview may be required.

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 appli-

* For admission to the College of Medicine, see page 177 f.

cation 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 addressed to the Director of Admissions, Waterman Building, University of Vermont, Burlington, Vermont.

COLLEGE OF ARTS AND SCIENCES

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

Graduation from secondary school normally implies the completion of at least fifteen units of work, and this is regarded as the usual requirement for entrance. Eight and a half or nine units are suggested above. Candidates for admission are advised to choose additional units as far as possible in the fields of language, mathematics, and history. For those who intend to take pre-medical or pre-dental work or to concentrate in the sciences a second year of Algebra is desirable.

COLLEGE OF TECHNOLOGY

The College of Technology recommends that candidates for admission to the curricula in Engineering complete the following secondary school courses: English (4 years), Algebra (Elementary and Intermediate), Plane Geometry, Solid Geometry, History, and Science. Superior students may be accepted without Intermediate Algebra or Solid Geometry, or both, but must enroll in a special course.

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.

Candidates for admission to the Economics and Chemistry Curricula should follow the recommendations for the College of Arts and Sciences above. For the Chemistry Curriculum, Solid Geometry is desirable.

COLLEGE OF AGRICULTURE

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

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

SCHOOL OF EDUCATION AND NURSING

The School of Education and Nursing recommends that candidates for admission complete the following courses in secondary school: English (4 years), Ancient or Modern Foreign Language (2 years), Algebra (Elementary), Plane Geometry, History, and Science. Candidates should present additional subjects as far as possible in the fields of language, mathematics, and history. In certain curricula they may receive admission credit for commercial subjects, home economics, manual training, or agriculture, if they have maintained a sufficiently high scholastic record.

For admission to the curricula in Elementary Education and Junior High School Education see pages 159 ff.

SPECIAL AND UNCLASSIFIED STUDENTS

Subject to the usual entrance requirements of the University, persons who are qualified for regular admission may, on payment of specified fees, pursue certain studies in regular college classes as special or unclassified students. This arrangement is intended to accommodate those whose previous study and attainments enable them to pursue with profit special courses of study in particular departments. Students who have been dismissed for low scholarship may not reenter as special students.

Special students are those who are not candidates for a degree in one of the regular curricula, or who are carrying less than a normal academic load. Unclassified students are those who are not considered members of one of the four regular classes.

Such students are registered and enrolled in the same manner as regular students, and are subject to all regulations of the University. Credit for courses completed may be subsequently counted toward a degree.

The Matriculation Fee of \$5.00 is payable by all who have not previously been enrolled in the regular session. The tuition charge is \$10.00 per quarter hour, the usual laboratory and breakage fees being additional. Special students are not eligible to hold University scholarships.

PRELIMINARY REGISTRATION PROGRAM

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

All new students are given a scholastic aptitude test at the opening of the college year. Freshmen also take an English placement test on the

basis of which a few students are excused from Freshman Composition. The scores of both tests are used in advising students regarding the course of study to pursue, and vocational plans. A personal data report, physical examination, and registration photograph are also included in the program.

ADMISSION TO ADVANCED STANDING

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

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

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

ENROLLMENT

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

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

COLLEGE ENTRANCE EXAMINATIONS

The College Entrance Examination Board will administer series of tests on the following Saturdays, April 12, 1947, June 7, 1947, and Wednesday,

August 27, 1947. On each of these days the following program of tests will be offered:

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

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

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

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

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

Curricula and Courses of Instruction

The University of Vermont and State Agricultural College offers a wide variety of curricula both professional and non-professional in the four colleges of Arts and Sciences, Technology, Agriculture, and Medicine, and the School of Education and Nursing.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences provides a general liberal four-year curriculum leading to the degree of Bachelor of Arts, with opportunity 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. It also offers a four-year professional curriculum leading to the degree of Bachelor of Science in Medical Technology.

All pre-professional requirements for admission to colleges of Medicine, Dentistry, Law, Theology, and Nursing may be met in the College of Arts and Sciences by a proper selection of electives.

THE COLLEGE OF TECHNOLOGY

The College of Technology offers four-year curricula leading to the degree of Bachelor of Science in Civil Engineering, Electrical Engineering, or Mechanical Engineering. Certain departments of this College also offer specialized four-year curricula leading to the professional degree of Bachelor of Science in Chemistry or in Commerce and Economics. The latter permits specialization in Business, Secretarial Studies, or Commercial Teaching.

THE COLLEGE OF AGRICULTURE

The College of Agriculture offers four-year curricula leading to the degree of Bachelor of Science in Agriculture, which include both general and specialized training. The fields of specialization are Agricultural Economics, Agricultural Education, Agricultural Engineering, Agronomy, Botany, Dairy Manufacturing, Dairy Production, Horticulture, and Poultry Husbandry.

The College also offers four-year curricula leading to the degree of Bachelor of Science in Home Economics, with specialization in one of the

following fields: Food and Nutrition; Clothing, Textiles, and Related Arts; Home Economics Education; and General Home Economics.

THE SCHOOL OF EDUCATION AND NURSING

The School of Education and Nursing offers a five-year curriculum in Nursing leading to the degree of Bachelor of Science in Nursing, and five specialized four-year curricula in Education. The curriculum in Elementary Education leads to the degree of Bachelor of Education, that in Music Education to the degree of Bachelor of Science in Music Education, and those in Industrial Education, Junior High School Education, and Secondary Education to the degree of Bachelor of Science in Education.

THE COLLEGE OF MEDICINE

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

NUMBERING AND DESCRIPTION OF COURSES

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

Courses numbered from 100 to 199 are advanced courses, normally open only to juniors and seniors; those numbered from 200 to 299 are for graduate students only. The letter "G" preceding the course number indicates that the course has been approved by the Director of Graduate Study for credit toward advanced degrees, when taken by graduate students.

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

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

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

The College of Arts and Sciences

OBJECTIVE

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

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

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

THE LIBERAL ARTS CURRICULUM

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

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

REQUIRED OF ALL STUDENTS:

1. English. English Composition the first year, unless exempted, and the second year either English Literature or American Literature.
2. Foreign Language. One course of at least intermediate grade in French, German, Greek, Latin, or Spanish, to be completed as early as possible in the college career.
3. Science. One laboratory course, normally the first year, to be chosen from Botany, Chemistry, Geology, Physics, and Zoology.

4. Physical Education and Military Science. Two years of Physical Education for men and women, two years of Military Science for men.
5. Field of Concentration. Each student, in consultation with his advisor, must choose a field of concentration during his sophomore year. The specific courses making up the field, as well as the student's whole program for the last two years, are chosen in consultation with the Chairman of the Department in which the major part of the work is to be taken and must have his approval. There are certain restrictions to be met: the field must be a well integrated whole, adapted to the student's special interests;
 - it must include a minimum of six courses totalling not less than 54 quarter hours, at least half, but not all, to be taken in one subject;
 - it must contain at least two advanced courses in one subject and one advanced related course in another subject;
 - each student must take at least one course, normally an advanced course, in his field of concentration in each quarter of his junior and senior years.

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

1. *Language and Literature, or Music: History (American, Ancient, Medieval, or Modern European) the first year; a second foreign language reaching the intermediate level; a second year course in the Social Science division.
2. Social Science: History (American, Ancient, Medieval, or Modern European) the first year; during the first two years a total of two year courses in different departments, chosen from the following: Economics, Philosophy, Political Science, and Psychology.
3. Science and Mathematics: Freshman Mathematics (11, 12, 13) and Calculus (21-22-23)† the first two years; Inorganic Chemistry† the first year and General Physics† the second year; a total of two year courses in the divisions of Literature and Fine Arts (including Music) and of the Social Sciences.

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

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

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, VETERINARY SCIENCE)

The requirements for admission to an accredited medical college include not less than three years of undergraduate work, during which the courses required by the American Medical Association must be completed.* Any student who wishes to enter medical college should by the beginning of his sophomore year consult the catalogue of the college of his choice and arrange to include in his program courses required by that particular school.

Students will find it definitely to their advantage to plan a four-year program which, in addition to the required courses listed below, includes courses leading to the fulfillment of the requirements for a Bachelor of Arts degree. Those who wish to meet the minimum requirements for admission to medical college follow the first three years of the program below. By successfully completing these three years here and one year in an accredited medical college, they will qualify, on application, as candidates for a Bachelor of Science degree.

In the following outline, courses listed above the line should be taken in the year indicated, if not already completed. Courses below the line must be taken at some time during the program. A student must have completed a total of 135 quarter hours by the end of the third year to be considered for admission to a medical college.

FIRST YEAR	F	W	S	SECOND YEAR	F	W	S
	QUARTER				QUARTER		
English Composition	3	3	3	English or American Literature	3	3	3
Inorganic Chemistry	5	5	5	Intermediate Foreign Language	3	3	3
Mathematics	3	3	3	General Zoology	4	4	4
General Zoology	4	4	(4)†	Physics	5	5	5
Foreign Language (Elementary or Intermediate)	3	3	3	Electives	6	6	6
Physical Education	1	1	1	Physical Education	1	1	1
Military Science (Men)	2	2	2	Military Science (Men)	2	2	2
Hygiene (Women)							

* For further information see Index under "Admission, College of Medicine."

† Need not be taken at this time. A course in Botany or Zoology may be taken in a later year to fulfill the requirement of one year of Biology.

THIRD YEAR	F	W	S	FOURTH YEAR
Organic Chemistry	5	5	5	Courses in field of concentra-
Physics	5	5	5	tion
Social Science electives	6	6	6	Electives
Courses in field of concentra-				
tion				
Electives				

The requirements for admission to colleges of dentistry vary but in all cases include at least two years of college work with at least one course each in Biology, Inorganic Chemistry, Physics, and English. Hence, the course of study advised as preparation for medicine may be used as a basis for selection by those interested in dentistry.

The requirements for admission to veterinary colleges are at least one year of college work including English, Inorganic Chemistry, and Zoology.

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 MEDICAL TECHNOLOGY CURRICULUM

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

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

ART

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

HISTORY OF ART

1 GREEK ART.

Three hours. S

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

Prerequisite: sophomore standing.

Mr. Kidder

2-3 EUROPEAN PAINTING.

Three hours. F, W

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

Prerequisite: sophomore standing.

Mr. Prindle

5-6 MODERN ART.

Three hours. W, S

Study and appreciation of contemporary trends in sculpture, architecture, and painting from the period of Impressionism through Surrealism, with emphasis on French and American influences.

Prerequisite: sophomore standing.

Mrs. Mills

ARTS AND CRAFTS

11, 12, 13 ARTS AND CRAFTS.

Three hours. F, W, S

Experiences in functional design using various media to develop good taste and creative ability. Different processes including leather tooling, block-printing, ceramics, and work with metal and plastics are presented each quarter. A weekly lecture period relates the history and appreciation of arts and crafts to student work. Studio fee \$1.00 per quarter.

Prerequisite: sophomore standing.

Mrs. Mills

DRAWING AND PAINTING

21, 22, 23 DRAWING AND PAINTING. *Two or three hours. F, W, S

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

Mr. Colburn

ART EDUCATION

For courses in Art Education, see Elementary Education 4-5-6, 101.

BOTANY

For courses in Botany, see the College of Agriculture.

CHEMISTRY

For courses in Chemistry, see the College of Technology.

CLASSICAL LANGUAGES

*Professors Prindle and Kidder; Assistant Professor Pooley;
Mr. Maurer*

GREEK

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

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

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

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

Prerequisite: 1-2-3. Mr. Maurer

101-102-103 GREEK DRAMA. *Three hours. F, W, S*

The reading of three plays of Sophocles, Euripides, and Aristophanes, and lectures on the Greek theatre and on the origin, evolution, and history of Attic tragedy and comedy.

Prerequisite: 4-5-6. Mr. Maurer

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

* 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. It may be entered at the beginning of the fall or winter quarter, but to receive credit a student must take two consecutive quarters.

LATIN

- 1-2-3 ELEMENTARY LATIN. *Three hours.* F, W, S
Elements of the language, for those who present less than two years of entrance Latin. *Credit is allowed only if Latin 4-5-6 is also completed.*
- 4-5-6 INTERMEDIATE LATIN. *Three hours.* F, W, S
Vocabulary, forms, and syntax, and readings from such authors as Caesar, Cicero, Ovid, and Virgil.
Prerequisite: 1-2-3, or two years of high school Latin.
- 7-8-9 LATIN PROSE AND POETRY. *Three hours.* F, W, S
The works usually read are: selections from Livy or Cicero; Virgil, *Eclogues*; one play of Plautus or Terence.
Prerequisite: 4-5-6, or four years of high school Latin. Mr. Prindle
- 31-32-33 ENGLISH WORDS. *Three hours.* F, W, S
Among the topics treated are dictionaries and their use, the Indo-European family of languages, a sketch of the history of the English language, word formation, the ways in which Latin and Greek words have come into English, and the respective places of the Classical and Anglo-Saxon elements in the English vocabulary. (Offered 1947-48.)
Prerequisite: junior standing and some knowledge of Latin. Mr. Prindle
- 101-102-103 HORACE, CATULLUS, PLINY. *Three hours.* F, W, S
The works usually read are: Horace, *Odes* and *Epodes*; selections from the poems of Catullus and the letters of Pliny.
Prerequisite: 7-8-9. The Staff
- G104-105 VIRGIL. *Three hours.* F, W
The entire *Aeneid* is read in the original or in translation. The poem is considered with reference to its structure, its literary qualities, and its position in the literature of Rome and of the world. (Offered 1947-48.)
Prerequisite: 101-102-103. Mr. Prindle
- G106 TACITUS. *Three hours.* S
Reading of selections and study of Tacitus as an historian and as a literary artist. (Offered 1948.)
Prerequisite: 101-102-103.
- G107 CICERO. *Three hours.* S
Selections from the *Orations*, the *Letters*, and the philosophical works are studied in detail. Attention is given to the position of Cicero in the political and literary history of his age. (Offered 1947.)
Prerequisite: 101-102-103. Mr. Pooley

G108 ROMAN ELEGY.

Three hours. W

Reading of selections from Tibullus, Ovid, and Propertius and consideration of the development of the elegy. (Offered 1947.)

Prerequisite: 101-102-103.

Mr. Kidder

G110 OVID.

Three hours. F

Selections from the *Metamorphoses* are studied in detail. (Offered 1948.)

Prerequisite: 101-102-103.

Mr. Prindle

G120 PROSE COMPOSITION.

Three hours. F

Required of those who wish to be recommended to teach Latin.

Prerequisite: 101-102-103.

Mr. Pooley

For CLASSICAL MYTHOLOGY, see General Literature 4-5, 6.

For GREEK ART, see History of Art 1.

For LATIN LITERATURE IN TRANSLATION, see General Literature 3.

For THE TEACHING OF LATIN, see Education 151-152.

ECONOMICS

For courses in Economics, see the College of Technology.

EDUCATION

For courses in Education, see the School of Education and Nursing.

*ENGLISH

Professor Lindsay; Associate Professor Pope; Assistant Professors Dean, Hughes, Sullivan, Trevithick, and Wainwright; Miss Bandel, Messrs. Bogorad, Hobner, Holmes, Mrs. McGinley, Miss Smith, Messrs. Stoel, Suitor, and Templeton.

1-2-3 ENGLISH COMPOSITION.

Three hours. F, W, S

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

The Staff

* Sophomores and freshmen excused from English Composition must take English Literature or American Literature.

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

4-5-6 ENGLISH LITERATURE.

Three hours. F, W, S

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

Prerequisite: 1-2-3 or exemption therefrom.

The Staff

7, 8, 9 AMERICAN LITERATURE.

Three hours. F, W, S

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

7 The 17th and 18th centuries.

8 The romantic period.

9 The late 19th century and early 20th.

Prerequisite: 1-2-3 or exemption therefrom.

Mrs. McGinley, Messrs. Lindsay, Stoel, and Trevithick

13, 14, 15 PERIODICAL WRITING.

Three hours. F, W, S

13 News writing.

14 Article writing.

15 Short story and other forms of writing.

Prerequisite: 1-2-3 or exemption therefrom.

Mr. Dean

16 EXPOSITORY WRITING.

Three hours. F, W, S

The writing of expository papers. Required of sophomore engineers; open to others only by permission of the instructor.

Prerequisite: 1-2-3 or exemption therefrom. *Mr. Lindsay, Miss Bandel*

18 ADVANCED COMPOSITION.

Three hours. S

Recommended to those who wish to teach English, and to those who wish practice in writing. (Not offered 1946-47.)

Prerequisite: sophomore standing.

Mr. Lindsay

G101-102-103 SHAKESPEARE.

Three hours. F, W, S

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

Prerequisite: junior standing.

Mr. Pope

G104, 105, 106 VICTORIAN LITERATURE (1832-1900).

Three hours. F, W, S

A study of the lives and the works (except the novel) of the significant writers of the era by lectures, discussion, and reports. Outstanding poets and prose writers are studied as spokesmen of their own age and harbingers of the present one. (Not offered 1947-48.)

Prerequisite: junior standing.

Mr. Wainwright

G107, 108, 109 ENGLISH NOVEL.

Three hours. F, W, S

English fiction from its origins through the nineteenth century. Masterpieces are stressed and read critically. (Not offered 1946-47.)

Prerequisite: junior standing.

Mr. Wainwright

G113, 114, 115 PRESENT-DAY LITERATURE.

Three hours. F, S, W

Contemporary writers and the world that produced them.

113 The Modern Novel.

F

114 The Modern Short Story.

S

115 Modern American Poetry.

W

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

G117 MODERN DRAMA.

Three hours. W

The development of modern drama with a study of leading contemporary dramatists.

Prerequisite: junior standing.

Mr. Pope

G121 WORDSWORTH AND COLERIDGE.

Three hours. F

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

Prerequisite: junior standing.

Mr. Lindsay

G122 BYRON, SHELLEY, AND KEATS.

Three hours. W

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

Prerequisite: junior standing.

Mr. Pope

G124, 125, 126 NON-DRAMATIC LITERATURE OF THE RENAISSANCE.

Three hours. F, W, S

Prose and poetry of the Tudor and Stuart periods.

124 Major Elizabethan writers, with emphasis on Spenser.

125 1600 to 1660, with emphasis on the "Metaphysical School" and "Church Poets."

126 John Milton.

Prerequisite: junior standing.

Mr. Bogorad

G127, 128, 129 THE RESTORATION AND EIGHTEENTH CENTURY.

Three hours. F, W, S

The works, including selected plays and novels, of significant writers from 1660 to 1800, from Dryden to the early romantic poets. Particular emphasis on the rise of the essay, the satires of Pope and Swift, and the works of Dr. Johnson and his circle. (Not offered 1947-48.)

Prerequisite: junior standing.

Mr. Bogorad

G131-132-133 CHAUCER.

Three hours. F, W, S

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

Prerequisite: junior standing.

Miss Hughes

G135, 136, 137 AMERICAN NOVEL.

Three hours. F, W, S

Masterpieces of nineteenth-century American fiction selected on the basis of literary merit. Lectures, class discussions, oral and written reports. (Not offered 1947-48.)

Prerequisite: junior standing.

Mr. Trevithick

G140, 141-142 HISTORY OF THE LANGUAGE.

Three hours. F, W, S

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

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

(Not offered 1947-48.)

Prerequisite: junior standing; 140 for 141.

Miss Hughes

G144, 145, 146 LITERARY THEORY.

Three hours. F, W, S

The more important critical writings, ancient and modern, considered as contributions to the theory of literature and as aids to interpretation of literary works. (Not offered in 1947-48.)

144 Bibliography and methods of literary study.

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

146 History and principles of criticism.

Prerequisite: junior standing.

Mr. Lindsay

G147, 148, 149 MAJOR AMERICAN AUTHORS.

Three hours. F, W, S

The writings of some major American authors considered from the viewpoint of literature, their historical importance, and their contributions to the thought of the present. Informal discussion, textual analysis, prepared papers. (Not offered 1946-47.)

147 Emerson and Whitman.

148 Thoreau and the lesser Transcendentalists.

149 Poe and Irving.

Prerequisite: junior standing.

*Mr. Lindsay**Mr. Trevithick**Mr. Trevithick*

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

GENERAL LITERATURE

1, 2 GREEK LITERATURE IN TRANSLATION.

Three hours. F, W

Lectures on the development of the various branches of Greek literature and on its chief authors, with special emphasis on Homeric epic and drama. Readings in standard translations from the more important writers. No knowledge of Greek required.

Prerequisite: junior standing.

Mr. Kidder

3 LATIN LITERATURE IN TRANSLATION.

Three hours. S

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

Prerequisite: junior standing.

Mr. Prindle

4-5, 6 CLASSICAL MYTHOLOGY.

Three hours. F, W, S

The more important myths and their influence on English literature and art. Lectures, assigned readings, short papers, and recitations. (Offered 1946-47.)

Prerequisite: sophomore standing and some classical background; 5 for 6.

Mr. Prindle

11, 12 GERMAN LITERATURE IN TRANSLATION.

Three hours. W, S

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

11 German literature prior to 1800.

12 German literature since 1800.

Prerequisite: junior standing.

Mr. Carpenter

GEOLOGY

Assistant Professor Doll

1-2-3 INTRODUCTORY GEOLOGY. (2-4)

Four hours. F, W, S

The composition, structure and surface forms of the earth, and the agencies active in their production; a general survey of the earth's history as recorded in the rocks. Lectures, laboratory, field trips. Fee \$2.50 per quarter.

Mr. Doll

10-11-12 MINERALOGY AND ECONOMIC GEOLOGY. *Three hours. F, W, S*

The crystallographic and physical properties of minerals and the characteristics, occurrence, distribution, production, and uses of the

more important mineral resources. Lectures, laboratory. Fee \$2.50 per quarter.

Prerequisite: 1-2-3.

GERMAN

Professor Carpenter; Assistant Professor Ladd; Messrs. Maurer, Webster, and Wurthmann

1-2-3 ELEMENTARY GERMAN.

Three hours. F, W, S

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

4-5-6 INTERMEDIATE GERMAN.

Three hours. F, W, S

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

Prerequisite: 1-2-3 or equivalent.

7, 8, 9 COMPOSITION AND CONVERSATION.

Three hours. F, W, S

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

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

G101-102-103 INTRODUCTION TO GERMAN LITERATURE.

Three hours. F, W, S

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

Prerequisite: 4-5-6.

Mr. Carpenter

G104 GOETHE'S FAUST.

Three hours. F

Reading in class of Part I and most of Part II; study of sources of the poem and its influence, particularly on English literature; outside reading of several plays from other literatures, which deal with a similar theme. (Offered in alternate years, 1947-48.)

Prerequisite: 101-102-103.

Mr. Carpenter

- G105-106 GERMAN LITERATURE: 1800-1850. *Three hours. W, S*
The Romantic movement and Young Germany. Reading of selected works, chiefly by Kleist, Grillparzer, and Heine. (Offered in alternate years, 1947-48.)
Prerequisite: 101-102-103. Mr. Carpenter

- G107-108 GERMAN LITERATURE: 1850-1900. *Three hours. F, W*
Reading in class of plays, beginning with dramas of Hebbel, illustrating the development of the realistic trend which burst forth in Naturalism; study of Impressionism and Neo-romanticism; outside reading of typical short stories and novels. (Offered in alternate years, 1946-47.)
Prerequisite: 101-102-103. Mr. Carpenter

- G109 GERMAN LITERATURE: THE 20TH CENTURY. *Three hours. S*
Reading in class of selected works, mainly dramas, exemplifying Expressionism and New Reality; collateral reading of typical short stories and novels. (Offered in alternate years, 1947.)
Prerequisite: 101-102-103. Mr. Carpenter

- G121, 122, 123 ADVANCED COMPOSITION AND CONVERSATION.
Three hours. F, W, S
Training in the written and oral use of German, with special attention to the acquisition of a correct pronunciation, based on the study of phonetics. Recommended to those preparing to teach German.
Prerequisite: 7, 8, 9 or 101-102-103, and permission of the department. Mr. Carpenter

HISTORY

Professor Evans; Associate Professor Putnam; Assistant Professors Pooley and Schultz; Mr. Cooley

- 1-2-3 ANCIENT HISTORY. *Three hours. F, W, S*
A brief survey of the ancient Near East, followed by a more detailed study of the ancient Greek and Roman worlds. *Mr. Pooley*

- 4-5-6 MEDIAEVAL EUROPE. *Three hours. F, W, S*
The history of Europe from the late Roman Empire to the Renaissance, with particular emphasis on political and cultural developments. *Mr. Pooley*

7-8-9 SURVEY OF EUROPEAN HISTORY. *Three hours. F, W, S*

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

Messrs. Evans, Schultz, and Cooley

10-11-12 SURVEY OF AMERICAN HISTORY. *Three hours. F, W, S*

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

Messrs. Putnam and Schultz

101-102-103 EARLY MODERN HISTORY. *Three hours. F, W, S*

The Renaissance, the Reformation, and seventeenth century Europe, with special attention to the economic and social history of the period. (Offered 1947-48.)

Prerequisite: one course.

Mr. Evans

104-105, 106 EUROPE IN THE MODERN AGE. *Three hours. F, W, S*

History of Europe from the seventeenth century to the present.

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

Mr. Evans

121-122, 123 EARLY AMERICAN HISTORY. *Three hours. F, W, S*

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

Prerequisite: one course.

Mr. Putnam

124-125, 126 LATER AMERICAN HISTORY. *Three hours. F, W, S*

History of the United States from 1865 to the present. (Offered in alternate years, 1947-48.)

126 The United States since World War I.

Prerequisite: one course.

Mr. Putnam

G127-128-129 AMERICAN FRONTIERS. *Three hours. F, W, S*

The westward movement to the end of the nineteenth century and its influence in shaping American ideals and institutions. (Not offered 1947-48.)

Prerequisite: 121-122, 123 or 124-125, 126.

Mr. Putnam

G141-142-143 FRENCH REVOLUTION AND NAPOLEON.

Three hours. F, W, S

French history from 1789 to 1815, with special attention to the impact of French ideas and power upon Europe.

Prerequisite: 104-105, 106 and one other course.

Mr. Evans

- G151-152-153 CONTEMPORARY HISTORY. *Three hours. F, W, S*
 The world since 1918, stressing the background of current events.
Prerequisite: two courses, preferably 104-105, 106 and 124-125, 126.
Mr. Evans
- G154-155, 156 ENGLISH HISTORY. *Three hours. F, W, S*
 The British role in history since Roman days (Not offered 1947-48.)
 156 Great Britain since 1815.
Prerequisite: 7-8-9; English 4-5-6 or equivalent; junior standing.
Mr. Schultz
- G161-162-163 LATIN AMERICAN HISTORY. *Three hours. F, W, S*
 The political, social, and economic development since the Spanish
 Conquest. (Offered 1946-47.)
Prerequisite: two courses. *Mr. Putnam*
- 164-165-166 CANADIAN HISTORY. *Three hours. F, W, S*
 Canadian development from the French exploration and settlement
 to the present with emphasis on the evolution of self-government and
 relations with the United States. (Offered in alternate years, 1947-48.)
Prerequisite: two courses. *Mr. Putnam*
- G191-192-193 SEMINAR. *Two hours. F, W, S*
 Advanced study in a selected field. Open to graduate students
 and to seniors by permission. *Mr. Putnam*

HOME ECONOMICS

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

FAMILY LIVING

1 HOME NURSING.

101 CHILD CARE AND
 DEVELOPMENT.

*103 FAMILY RELATIONSHIPS.

FOOD AND NUTRITION

103 DIETETICS.

HOME MANAGEMENT

101 HOME MANAGEMENT.

MATHEMATICS

For courses in Mathematics, see the College of Technology.

*MUSIC

*Professor Bennett; Assistant Professors Marston and Pappoutsakis;
Miss Shively and Mrs. Start*

HISTORY AND THEORY OF MUSIC

1, 2, 3 SURVEY OF MUSICAL LITERATURE. *Three hours. F, W, S*

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

1 From Palestrina to Beethoven.

2 From Schubert to Wagner.

3 From Brahms to Stravinsky.

Mr. Bennett

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

Two hours. F, W, S

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

Mr. Pappoutsakis

7-8-9 ELEMENTARY HARMONY.

Three hours. F, W, S

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

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

Mr. Bennett

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

Two hours. F, W, S

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

Prerequisite: 4-5-6.

Mr. Pappoutsakis

G101-102-103 ADVANCED HARMONY AND HARMONIC ANALYSIS.

Prerequisite: 7-8-9.

Three hours. F, W, S

G104-105-106 COUNTERPOINT.

Prerequisite: 7-8-9.

Three hours. F, W, S

Mr. Bennett

G107-108-109 ORCHESTRATION AND CONDUCTING.

Three hours. F, W, S

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

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

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

For the curriculum in Music Education, see the index.

121, 122, 123 HISTORY OF MUSIC.

Three hours. F, W, S

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

121 From the beginnings of harmony through the eighteenth century.

122 The nineteenth century.

123 The twentieth century.

Prerequisite: 1, 2, 3; junior standing.

Mr. Bennett

MUSIC EDUCATION

31, 32, 33 ELEMENTARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING.

Three hours. F, W, S

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

31 Grades 1 and 2.

32 Grades 3 and 4.

33 Grades 5 and 6.

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

G151, 152, 153 SECONDARY SCHOOL MUSIC METHODS AND PRACTICE TEACHING.

Three hours. F, W, S

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

151 Junior high school music.

152 Vocal music in the senior high school.

153 Instrumental and theoretical music in the senior high school.

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

Miss Marston

G154-155-156 APPLIED MUSIC METHODS.

One hour. F, W, S

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

Prerequisite: three years' instruction in chosen instrument at the University, or equivalent.

Miss Marston, Miss Shively, and Mrs. Start

For SCHOOL MUSIC, see Elementary Education 10-11-12 and 13-14-15.

APPLIED MUSIC

40, 41, 42 CHOIR.

**One hour. F, W, S*

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

Mr. Bennett, director; Miss Marston, organist

* See footnote on following page.

43, 44, 45 ORCHESTRA.

*One hour. F, W, S

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

Mr. Pappoutsakis, conductor

46, 47, 48 PIANO.

*One or two hours. F, W, S

Miss Marston

49, 50, 51 ORGAN.

*One or two hours. F, W, S

Miss Marston

52, 53, 54 SINGING.

*One or two hours. F, W, S

Miss Shively

55, 56, 57 VIOLIN.

*One or two hours. F, W, S

Mrs. Start

PHILOSOPHY AND RELIGION

Professor Dykhuizen; Assistant Professor Hall; Mr. Ledden

PHILOSOPHY

1 INTRODUCTION TO PHILOSOPHY.

Three hours. F

A presentation of the chief problems of philosophy.

Prerequisite: sophomore standing.

Messrs. Dykhuizen and Ledden

2 LOGIC.

Three hours. W

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

Prerequisite: sophomore standing.

Messrs. Dykhuizen and Ledden

3 ETHICS.

Three hours. S

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

Prerequisite: sophomore standing.

Messrs. Dykhuizen and Ledden

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

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

- 20 SOCIAL PHILOSOPHY OF AMERICAN AGRICULTURE. *Three hours. F*
 European backgrounds; the history of American thought regarding agriculture in this country; the more important agricultural problems of today in the light of American democratic thought. Designed primarily for students in Agriculture.
Prerequisite: senior standing. *Mr. Dykhuizen*
- 104-105 METAPHYSICS. *Three hours. F, W*
 Basic philosophical problems concerning knowledge, value, and reality.
Prerequisite: 1; junior standing. *Mr. Ledden*
- 106 SOCIAL PHILOSOPHY. *Three hours. S*
 The meanings and values inherent in social life.
Prerequisite: 3; junior standing. *Mr. Ledden*
- 107, 108-109 HISTORY OF PHILOSOPHY. *Three hours. F, W, S*
 107 Ancient Greek and Roman philosophy.
 108 Medieval and early modern philosophy.
 109 Eighteenth and nineteenth century philosophy.
Prerequisite: junior standing; 108 for 109. *Mr. Dykhuizen*
- 110-111 HISTORY OF AMERICAN PHILOSOPHY. *Three hours. F, W*
 The thought of leading American philosophers from colonial times to the present.
Prerequisite: junior standing; 110 for 111. *Mr. Ledden*
- G113-114 INTELLECTUAL BACKGROUND OF MODERN LIFE. *Three hours. W, S*
 Thought movements which have influenced the thought of today.
Prerequisite: senior standing. *Mr. Dykhuizen*
- For AESTHETICS, see Psychology 116-117.
 For ECONOMIC PHILOSOPHY, see Economics 140-141 and 142.
 For POLITICAL PHILOSOPHY, see Political Science 193, 194.

RELIGION

- 1, 2, 3 HISTORY OF RELIGION. *Three hours. F, W, S*
 Religion from early primitive forms to the great world religions of the present.
 1 Religions of the past.
 2, 3 Religions of the present.
Prerequisite: sophomore standing. *Mr. Hall*

11, 12, 13 JEWISH-CHRISTIAN TRADITION. *Three hours. F, W, S*

A critical study of the Old and New Testaments as sources of the Jewish-Christian tradition, with some study of the documents of the early Christian Church.

11 Old Testament.

12 New Testament.

13 Documents of the early Church.

Prerequisite: sophomore standing.

Mr. Hall

SOCIOLOGY

1-2-3 INTRODUCTORY SOCIOLOGY. *Three hours. F, W, S*

The basic features of group behavior.

1 Fundamental sociological concepts.

2 Forms of social organization.

3 Processes of social interaction.

Prerequisite: sophomore standing.

Mr. Ledden

101 SOCIAL PROBLEMS. *Three hours. S*

A descriptive analysis of particular social problems.

Prerequisite: Philosophy 3 or Psychology 1,2,3 or Sociology 1,2,3; junior standing.

Mr. Ledden

PHYSICS

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

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

An introductory course for students not concentrating in a science.

The successive quarters deal with Mechanics; Heat, Sound, and Light; Magnetism and Electricity. Demonstration lectures, presenting experimental facts and theoretical conclusions, are closely coordinated with laboratory work. Fee \$2.00 per quarter.

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

The Staff

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

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

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

The Staff

G111, 112, 113 MECHANICS AND WAVE MOTION. (3-0)

Three hours. F, W, S

Continuation and developments of the principles and methods of Mechanics with emphasis on the integration of fundamental physical principles with mathematics and with the extension of these principles to Wave Motions. (Not offered 1947-48.)

111 Forces and other vector quantities. Work and energy.

112 Statics and dynamics of rigid bodies.

113 Wave motion with introduction to Wave Mechanics.

Prerequisite: 11 and Calculus for 111; 111 and Mathematics 110 for 112; 112 for 113.

*Mr. Walbridge*G121, 122, 123 HEAT AND THERMODYNAMICS. *Three hours. F, W, S*

Experimental facts and theoretical principles of heat. (Not offered 1947-48.)

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

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

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

Prerequisites: 12 and Calculus for 121; 121 and Mathematics 110 for 122 and 123.

Mr. Woodward

G141, 142, 143 MAGNETISM AND ELECTRICITY. (2-2)

Three hours. F, W, S

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

141 Basic principles of magnetism and of electrostatics.

142 Phenomena and theory in direct current circuits.

143 Transient phenomena and alternating currents.

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

Messrs. Holmes and Rooney

G151, 152, 153 X-RAYS AND CRYSTAL STRUCTURE. (2-2)

Three hours. F, W, S

The production and properties of X-rays with laboratory uses of X-ray tubes and measurements of wave lengths and of absorptions. The application of X-ray methods to the study of crystal structure. Fee \$4.00 per quarter. (Not offered 1947-48.)

151 Elementary work in the field of x-rays.

152 Application to the determination of crystal structure.

153 Advanced study of the interactions between radiation and matter.

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

G161, 162, 163 OPTICS AND SPECTROSCOPY. (2-2) *Three hours.* F, W, S

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

161 Geometrical optics.

162 Physical optics.

163 Spectroscopy.

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

Mr. Woodward

G171, 172, 173 ELECTRON AND ATOMIC PHYSICS. (2-2)

Three hours. F, W, S

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

171 Fundamental electronics.

172 Thermionic emission and vacuum tube circuits.

173 Atomic and nuclear physics.

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

Messrs. Holmes and Rooney

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

Three hours. F, W, S

Students concentrating in Physics will select a subject and will work without the detailed guidance necessary in the usual type of laboratory work. The course, part way between an ordinary undergraduate laboratory course and elementary research, will involve both theoretical and experimental work. In place of class work the student will do independent study with frequent consultations with the instructor. Fee \$4.00 per quarter. (Not offered 1947-48.)

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

The Staff

G201-202-203 SEMINAR.

One hour. F, W, S

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

The Staff

G211-212-213 RESEARCH.

Nine to twelve hours. F, W, S

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

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

POLITICAL SCIENCE

Professor Carroll; Associate Professor Nuquist; Assistant Professors Babcock and Long

1, 2, 3 AMERICAN GOVERNMENT.

Three hours. F, W, S

1 Organization of the American federal government.

2 Functions of the American federal government.

3 American state government.

Prerequisite: 1 for 2.

The Staff

51, 52, 53 INTERNATIONAL RELATIONS.

Three hours. F, W, S

51 Development of international relations.

52 Principles and policies of international relations.

53 International organization.

Prerequisite: sophomore standing; 51 for 52.

Mr. Long

54 GEOGRAPHIC BACKGROUND OF POLITICS.

Three hours. S

A short course in political geography.

Prerequisite: sophomore standing.

Mr. Long

61, 64 LOCAL GOVERNMENT.

Three hours. F, W

61 Rural government.

64 Municipal government.

Prerequisite: sophomore standing.

Mr. Nuquist

71, 72, 73 COMPARATIVE GOVERNMENT.

Three hours. F, W, S

71 Governments of the British Commonwealth of Nations.

72 Governments of Western Continental Europe.

73 Governments of Eastern Europe.

Prerequisite: sophomore standing.

Mr. Carroll

76 GOVERNMENTS OF THE FAR EAST.

Three hours. W

Governments of China and Japan.

Prerequisite: sophomore standing.

77 GOVERNMENTS OF LATIN AMERICA.

Three hours. F

A comparative study of governments of Latin America.

Prerequisite: sophomore standing.

Mr. Nuquist

G147, 148, 149 EXTERNAL POLICIES OF FOREIGN STATES.

Three hours. F, W, S

147 States of Latin America.

148 States of the Pacific Area.

149 European States.

Prerequisite: 52 and either 53 or 54.

Mr. Long

G151 FOREIGN POLICY OF THE UNITED STATES. *Three hours. F*

Foreign policy and foreign relations of the United States.

Prerequisite: any course except 1, 2, 3.

Mr. Long

G154, 155, 156 INTERNATIONAL LAW. *Three hours. F, W, S*

154 Principles of the law of peace.

155 Application of the law of peace.

156 Principles and problems of the law of war.

Prerequisite: 52 and either 53 or 54.

Mr. Long

G162, 163 STATE GOVERNMENT. *Three hours. W, S*

162 Organization of state government.

163 State administration.

Prerequisite: 1, 2, 3, and a second course.

Mr. Nuquist

G173, 174 175 CONSTITUTIONAL LAW. *Three hours. F, W, S*

173 Nature of the American constitutional system.

174 Powers of Congress.

175 Position of the states.

Prerequisite: 1, 2, 3, and either one other course or Economics 10, 11, 12.

Mr. Carroll

G177-178-179 INTERGOVERNMENTAL RELATIONS. *Three hours. F, W, S*

The development of intergovernmental relations in the federal system of the United States, including the interrelations of national, state, and local governments, grants-in-aid and accompanying controls, interstate cooperation, metropolitan districts.

Prerequisite: 1, 2, 3, and one other course.

G183, 184-185 PUBLIC ADMINISTRATION. *Three hours. F, W, S*

183 Organization of public administration.

184 Financial administration.

185 Administrative law.

Prerequisite: any course except 1, 2, 3; 183 for 184.

Mr. Nuquist

G193, 194, 195 POLITICAL THEORY. *Three hours. F, W, S*

193 Development of political theory.

194 Recent political theory.

195 Popular government.

Prerequisite: two courses.

Mr. Carroll

PSYCHOLOGY

*Professors Metcalf and Gifford; Associate Professor Ansbacher;
Assistant Professor *Riker*

1-2 GENERAL PSYCHOLOGY. *Three hours. F, W*

An introduction to the entire field, emphasizing the normal adult human being.

Prerequisite: sophomore standing. *The Staff*

3 PSYCHOLOGY OF HUMAN ADJUSTMENT. *Three hours. S*

Preliminary study of problems connected with the individual's adjustment to the social group.

Prerequisite: 1-2. *The Staff*

4 APPLIED PSYCHOLOGY. *†Three hours. S*

A brief survey, designed to meet the needs and interests of students in Home Economics.

Prerequisite: 1-2.

G101 SOCIAL PSYCHOLOGY. *Three hours. F*

The social factors in personality and the psychological aspects of social relations, groups, instructions, and culture.

Prerequisite: 1-2. *Mr. Gifford*

G104 DIFFERENTIAL PSYCHOLOGY. *Three hours. F*

A study of individual differences in mental traits and abilities.

Prerequisite: 1-2. *Mr. Ansbacher*

G105-106 APPLIED PSYCHOLOGY. *†Three hours. W, S*

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

Prerequisite: 1-2. *Mr. Ansbacher*

G107 CHILD PSYCHOLOGY. *Three hours. F*

The development of the human mind from birth to maturity.

Prerequisite: 1-2. *Mr. Metcalf*

G108 CHARACTER AND PERSONALITY. *Three hours. W*

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

Prerequisite: 1-2. *Mr. Metcalf*

* Absent on leave, fall quarter, 1946.

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

G109 ABNORMAL PSYCHOLOGY.*Three hours. S*

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

Prerequisite: 1-2.

Mr. Metcalf

G110-111-112 TESTS AND MEASUREMENTS.*Three hours. F, W, S*

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

Prerequisite: 1-2.

G113-114-115 EXPERIMENTAL PSYCHOLOGY. (1-4)*Three hours. F, W, S*

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

Prerequisite: 1-2.

Mr. Metcalf

G116-117 AESTHETICS.*Three hours. F, W*

The mental processes involved in the response to the beautiful in art and nature.

Prerequisite: 1-2.

Mr. Metcalf

G118 SYSTEMATIC PSYCHOLOGY.*Three hours. S*

A comparative study of the leading contemporary schools of psychological thought.

Prerequisite: 1-2.

Mr. Metcalf

ROMANCE LANGUAGES

Professors Daggett and DeForest; Assistant Professors Doane, Johnston, and Towne; Messrs. Roberts and Webster

FRENCH**1-2-3 ELEMENTARY FRENCH.***Three hours. F, W, S*

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

Mr. Roberts and others

4-5-6 INTERMEDIATE FRENCH.*Three hours. F, W, S*

Grammar, composition, translation, and conversation. The class work is conducted, as much as possible, in French. A section is reserved for those who expect to concentrate in French.

Prerequisite: 1-2-3 or two years of preparatory French.

Mr. Webster and others

G101-102-103 INTRODUCTION TO FRENCH LITERATURE.

Three hours. F, W, S

Lectures, recitations, collateral reading, reports, and advanced composition. Selected texts from the 17th, 18th, and 19th centuries are the basis of study.

*Prerequisite: 4-5-6.**Messrs. DeForest and Johnston*

G107-108-109 FRENCH LITERATURE: 19TH CENTURY.

Three hours. F, W, S

Recitations, lectures, outside reading, and reports. A real knowledge of French is presumed.

*Prerequisite: 101-102-103; junior standing.**Mr. Daggett*

G110-111-112 FRENCH LITERATURE: 18TH CENTURY.

Three hours. F, W, S

Selected readings, lectures on the growth of liberalism, the "return to nature," the drama, and the novel. Voltaire, Rousseau, and their influence on modern thought. (Offered 1947-48.)

*Prerequisite: 101-102-103; junior standing.**Mr. Johnston*

G113-114-115 FRENCH LITERATURE: 17TH CENTURY.

Three hours. F, W, S

Lectures on the development of classic literature, outside reading, recitations, and reports. The influence of society, the Academy, and the Church on the French literature of this period is emphasized. The romance, poetry, and drama are read and studied. (Omitted 1947-48.)

*Prerequisite: 101-102-103; junior standing.**Mr. Daggett*

G116-117-118 MODERN FRENCH DRAMA.

Three hours. F, W, S

Brief history of modern French drama; outside reading. Written summaries of portions of the plays read, discussion of the text assigned, and lectures on dramatic technique and literary history.

*Prerequisite: 101-102-103; junior standing.**Mr. DeForest*G121-122-123 CONVERSATION AND COMPOSITION. *Three hours. F, W, S*

Composition, phonetics, exercises in advanced conversation. Required of those who wish to be recommended to teach French.

*Prerequisite: good standing in 101-102-103.**Mr. Johnston*

G200-201-202 GRADUATE COURSES.

Three hours. F, W, S

Courses are offered for graduate credit to resident candidates for the Master of Arts degree and further opportunities for independent work are provided.

ITALIAN

1-2-3 ELEMENTARY ITALIAN.

Three hours. F, W, S

Grammar, composition, translation, and practice in the spoken language for beginners. Restricted to students having good standing in other language courses.

Prerequisite: permission of the department.

Mr. Johnston

4-5-6 INTERMEDIATE ITALIAN.

Three hours. F, W, S

Grammar, composition, translation, and conversation. (Offered 1947-48.)

Prerequisite: Italian 1-2-3.

Mr. Johnston

SPANISH

1-2-3 ELEMENTARY SPANISH.

Three hours. F, W, S

Grammar, composition, and translation for beginners, with frequent practice in pronunciation and use of the spoken language. *Credit is given only if Intermediate Spanish is also completed.*

Mr. Doane and others

4-5-6 INTERMEDIATE SPANISH.

Three hours. F, W, S

Readings from selected authors. Advanced composition, grammar, and conversational practice. Spoken Spanish is used to a considerable extent in class.

Prerequisite: 1-2-3 or two years of preparatory Spanish.

Mr. Towne and others

G101-102-103 INTRODUCTION TO SPANISH LITERATURE.

Three hours. F, W, S

Selected texts from the 17th century to modern times; recitations, collateral reading, reports; advanced composition.

Prerequisite: a grade of at least 72 in 4-5-6.

Mr. DeForest

G107-108-109 SPANISH LITERATURE: 19TH CENTURY.

Three hours. F, W, S

Recitations, lectures, outside reading and reports. A reading knowledge of Spanish is presumed. (Offered 1947-48.)

Prerequisite: 101-102-103; junior standing.

Mr. DeForest

G113-114-115 SPANISH LITERATURE: GOLDEN AGE.

Three hours. F, W, S

Selected readings from the novel, poetry, and drama of the literature of the 16th and 17th centuries. (Omitted 1947-48.)

Prerequisite: 101-102-103; junior standing.

Mr. Daggett

G121-122-123 CONVERSATION AND COMPOSITION.

Three hours. F, W, S

Conversation, phonetics, intonation; advanced composition. Required of those who wish to be recommended to teach Spanish.

Prerequisite: junior standing and high standing in Spanish.

Mr. DeForest

G200-201-202 GRADUATE COURSES.

Three hours. F, W, S

Courses are offered for graduate credit to resident candidates for the Master of Arts degree and further opportunities for independent work are provided.

SPEECH

Associate Professor Huber; Mr. Humphrey

1-2-3 FUNDAMENTALS OF SPEECH.

Three hours. F, W, S

* Basic speech processes; improvement in thought, language, bodily action, voice, and diction sought through student performance; application of these basic processes to public speaking, group discussion, oral reading, radio, and the drama.

4 PARLIAMENTARY PROCEDURE.

One hour. F

The fundamentals of conducting a meeting are studied and practiced. The class meets twice a week with one hour of outside preparation.

11, 12, 13 PUBLIC SPEAKING.

Three hours. F, W, S

11 Preliminary analysis, gathering material, organization and delivery of public speeches.

12 The logical mode of persuasion—forms of logic used in speaking.

13 The psychological mode of persuasion—human motivation in speaking.

Two-thirds of the time is devoted to student performance. 11 is repeated each quarter.

Prerequisite: 11 or 1-2-3 for 12 or 13.

31 ORAL INTERPRETATION OF LITERATURE.

Three hours. F

Study and oral interpretation of prose and poetry; techniques of analysis and presentation. At least two-thirds of the time is devoted to student presentations.

Prerequisite: 1-2-3.

34 FUNDAMENTALS OF ACTING.

Three hours. W

Introduction to the principles of acting technique; problems in analysis and presentation of character; participation in improvisations and one-act plays. The emphasis is on group presentation.

Prerequisite: 1-2-3.

114 ARGUMENTATION AND DEBATE.

Three hours. F

The study of analysis, briefing, rules of evidence, lines of reasoning and refutation, as applied in the speaking situation, designed to develop skill in critical discussion of important topics of the day.

Prerequisite: nine hours, including 12.

115 GROUP DISCUSSION.

Three hours. W

Group discussion as a tool for adult education and for solving problems within a democracy; training for participation in lecture forum, panel, symposium, round table, and other types of discussion, as well as for discussion leadership.

Prerequisite: nine hours.

116 SPEECH COMPOSITION.

Three hours. S

A study of speech style by analysis of great speeches and by writing longer speeches, intended primarily for those who expect to use public speaking as a basic tool in their careers.

Prerequisite: 12, 13.

141 PLAY PRODUCTION.

Three hours. S

Sources of materials, play selection, casting and rehearsing, production organization, for prospective directors of plays, operettas, and festivals in schools, colleges, and community theaters.

Prerequisite: 34.

ZOOLOGY

Professor Moody; Assistant Professors Hartung, Lochhead, and Rowell; Miss Paulsen

1 INTRODUCTION TO ZOOLOGY. (2-4)

Four hours. F

The cell, its specialization; phylogenetic changes in body plan; the anatomy and physiology of a vertebrate as exemplified by the frog. Lectures, laboratory. Fee \$2.50.

Mr. Rowell and Staff

2 INVERTEBRATE ZOOLOGY. (2-4)

Four hours. W

Anatomy, physiology, and life history of selected representatives of the more important invertebrate phyla. Lectures, laboratory. Fee \$3.00.

Prerequisite: 1.

Mr. Lochhead

- 3 VERTEBRATE ZOOLOGY. (2-4) *Four hours. W*
Survey of Phylum Chordata, accompanied by dissection of typical sub-mammalian vertebrates. Lectures, laboratory. Fee \$5.00.
Prerequisite: 1. *Mr. Hartung and Staff*
- 4 EVOLUTION. (3-2) *Four hours. S*
Evidences of the occurrence of evolution; inheritance and evolutionary change; theories of evolution. Lectures, laboratory. Fee \$2.50.
Prerequisite: 1. *Messrs. Moody and Lockhead*
- 23 COMPARATIVE ANATOMY. (2-4) *Four hours. S*
Study of the evolution of the organ systems of vertebrates, accompanied by the dissection of a mammal. Lectures, laboratory. Fee \$5.00.
Prerequisite: 3; sophomore standing. *Mr. Hartung*
- 27 PHYSIOLOGY. (3-0) *Three hours. W*
Introduction to the fundamental chemical and mechanical bases of animal physiology, with special reference to man.
Prerequisite: 1. *Mr. Lockhead*
- 103 PRIMATE ANATOMY. (0-8) *Four hours. F*
Detailed dissection of the Rhesus monkey. Laboratory. Fee announced each year.
Prerequisite: 23. *Mr. Hartung*
- 104-105 VERTEBRATE EMBRYOLOGY. (2-4) *Four hours. W, S*
Comparative study of the early development of frog, chick, and mammal. Lectures, laboratory. Fee \$3.00, one quarter.
Prerequisite: 3; junior standing. *Mr. Rowell*
- G106-107 HEREDITY. (3-0) *Three hours. F, W*
Principles of inheritance and their physical basis, with emphasis upon heredity in man.
Prerequisite: junior standing; two courses in Botany, Psychology, and Zoology. *Mr. Moody*
- G108 EUGENICS. (3-0) *Three hours. S*
Application of principles of heredity to improvement of mankind and to solution of problems presented by population changes, differential birth rates, war, migration, and racial inter-relationships.
Prerequisite: 106-107, or Botany 120-121. *Mr. Moody*

109 HISTOLOGY. (2-4)

Four hours. F

Comparative study of tissues from a wide range of forms to demonstrate basic similarities and particular specializations. Lectures, laboratory. Fee \$3.00.

Prerequisite: 2 or 3; Botany 111.

Mr. Rowell

G110 MODERN EVOLUTIONARY THEORY. (3-0)

Three hours. W

Contributions of modern research in genetics, systematics, distribution, experimental embryology, serology, and related fields to problems of the means and methods of evolutionary change.

Prerequisite: 4, and 106-107 or Botany 120-121.

Mr. Moody

G111, 112, 113 SEMINAR. (1-0)

One hour. F, W, S

Review and discussion of publications presenting current zoological research. Required of graduate students and seniors concentrating in Zoology; open to others by special permission only.

The Staff

G200, 201, 202 ADVANCED READINGS.

Credit as arranged.

Readings, with conferences, on topics chosen to provide graduate students with background for, and specialized knowledge relating to, their research problems. Required of graduate students specializing in Zoology.

Mr. Moody

G203, 204, 205 RESEARCH.

Credit as arranged.

Original investigation intended to culminate in a Master's thesis. Required of graduate students specializing in Zoology; not open to others.

The College of Technology

The College of Technology includes the departments of Chemistry, Economics, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Mathematics and Mechanics. It offers a number of specialized professional curricula in these fields, leading to the degree of Bachelor of Science in the field of specialization. Details are given in the sections immediately following.

THE CHEMISTRY CURRICULUM

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

Those who wish a less intensive training in Chemistry may take the Liberal Arts curriculum, with a concentration in Chemistry, and receive the Bachelor of Arts degree.

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

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

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

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

THE FRESHMAN YEAR

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

THE SOPHOMORE YEAR

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

THE JUNIOR YEAR				THE SENIOR YEAR			
F W S QUARTER				F W S QUARTER			
Physical Chemistry	5	5	5	Qual. Organic Analysis	5	...	...
Organic Chemistry	5	5	5	Advanced Organic	3	3	3
Advanced Quant. Analysis.....	3	3	3	Advanced Organic Laboratory	5	...	...
Advanced Physics	3	3	3	Adv. Physical & Inorganic	3	3	3
Elective (non-laboratory)	3	3	3	Research	4	5	...
				Seminar .....	...	...	3
				Elective (non-laboratory)	6	3	3

THE ECONOMICS CURRICULA

The Department of Economics offers specialized curricula, namely, Business, Secretarial Studies, and Commercial Teaching, each leading to the degree of Bachelor of Science in Commerce and Economics. Those who wish a less intensive or less specialized training in Economics may take the Liberal Arts curriculum, with a concentration in Economics, and receive the Bachelor of Arts degree. An advisor from the Economics faculty will assist students enrolled in these curricula in building programs to meet their individual needs and plans.

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

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.

The normal program for the first two years in the Business Curriculum is as follows:

THE FRESHMAN YEAR

	F	W	S
	QUARTER		
English Composition	3	3	3
Introduction to Business	3	...	...
*Algebra & Math. of Finance	3	3	3
Economic Geography or			
Economic History	3	3	3
American Government	3	3	3
*Foreign Language	3	3	3
Military Science (Men)	2	2	2
Physical Education	1	1	1
Hygiene (Women) .....	...	...	...

THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
English or American Lit.	3	3	3
Principles of Economics	3	3	3
Principles of Accounting	3	3	3
General Psychology	3	3	3
Foreign Language or elective	3	3	3
Military Science (Men)	2	2	2
Physical Education	1	1	1

During the junior and senior years, students in this curriculum normally choose one of the following options.

ACCOUNTING

THE JUNIOR YEAR

	F	W	S
	QUARTER		
Advanced Accounting	3	3	3
Business Law	3	3	3
Money & Banking	3	3	...
Government & Business .....	...	...	3
Marketing	3	3	...
Salesmanship .....	...	...	3
Corporation Finance .....	...	3	3
Public Speaking	3	...	...
Electives	3	3	3

THE SENIOR YEAR

	F	W	S
	QUARTER		
Laboratory Science	4-5	4-5	4-5
Auditing	3	...	...
Cost Accounting .....	...	3	3
Federal Taxes	3	...	...
Financial Statements .....	...	3	...
C. P. A. Problems .....	...	...	3
Statistics .....	...	3	3
Electives	6	3	3

BANKING AND FINANCE

THE JUNIOR YEAR

	F	W	S
	QUARTER		
Money & Banking	3	3	...
International Econ. Problems .....	...	...	3
Corporation Finance .....	...	3	3
Statistics	3	3	...
Marketing	3	3	...
International Relations	3	3	3
Investments .....	...	...	3
Public Speaking .....	...	...	3
Electives	6	3	3

THE SENIOR YEAR

	F	W	S
	QUARTER		
Laboratory Science	4-5	4-5	4-5
Business Law	3	3	3
Financial Statements .....	...	3	...
Public Finance & Taxation .....	...	3	3
Personal Management .....	...	...	3
Electives	9	3	3

* In place of the foreign language and Algebra, students may choose Mathematics 11-12-13 and Calculus.

BUSINESS ADMINISTRATION

THE JUNIOR YEAR

F W S

QUARTER

Money & Banking	3	3	...
Government & Business .....	...	...	3
Corporation Finance .....	...	3	3
Statistics	3	3	...
Marketing	3	3	...
Salesmanship .....	...	...	3
Investments .....	...	...	3
Industrial Management	3	3	...
Personal Management .....	...	...	3
Public Speaking	3	...	...
Electives	3	3	3

THE SENIOR YEAR

F W S

QUARTER

Laboratory Science	4-5	4-5	4-5
Business Law	3	3	3
Public Finance & Taxation .....	...	3	3
Business Cycle Theory .....	...	3	3
Credits & Collection .....	...	...	3
Electives	9	3	...

INDUSTRIAL MANAGEMENT

THE JUNIOR YEAR

F W S

QUARTER

Corporation Finance .....	...	3	3
Business Law	3	3	3
Money & Banking	3	3	...
Government & Business .....	...	...	3
Industrial Management	3	3	...
Personal Management .....	...	...	3
Statistics	3	3	...
Public Speaking	3	...	...
Electives	3	3	6

THE SENIOR YEAR

F W S

QUARTER

Laboratory Science	4-5	4-5	4-5
Labor Economics	3	3	...
Time & Motion Studies	5	...	...
Factory Planning .....	...	5	...
Quality Control .....	...	...	5
Business Cycle Theory .....	...	3	3
Purchasing	3	...	...
Electives	3	3	6

MARKETING AND MERCHANDISING

THE JUNIOR YEAR

F W S

QUARTER

Money & Banking	3	3	...
Government & Business .....	...	...	3
Marketing	3	3	...
Salesmanship .....	...	...	3
Statistics	3	3	...
Economics of Consumption .....	...	...	3
Industrial Management	3	3	...
Personal Management .....	...	...	3
Differential & Applied Psych.	3	3	3
Electives	3	3	3

THE SENIOR YEAR

F W S

QUARTER

Laboratory Science	4-5	4-5	4-5
Business Law	3	3	3
Public Speaking .....	...	3	...
Purchasing	3	...	...
Credits & Collection .....	...	...	3
Sales Management	3	...	...
Advertising Prin. & Proced. ....	...	3	3
Electives	3	3	3

PERSONNEL MANAGEMENT

THE JUNIOR YEAR

	F	W	S
QUARTER			
Money & Banking	3	3	...
Government & Business .....	...	...	3
Industrial Management	3	3	...
Personal Management .....	...	...	3
Differential & Applied Psych.....	3	3	3
Statistics	3	3	...
Economics of Consumption.....	...	...	3
Labor Economics .....	...	3	3
Public Speaking	3	...	...
Electives	3	3	3

THE SENIOR YEAR

	F	W	S
QUARTER			
Laboratory Science	4-5	4-5	4-5
Business Law	3	3	3
Personnel Administration	3	3	3
Time & Motion Studies	5	...	...
Electives	3	6	6

The outline of the Secretarial and Commercial Teaching Curriculum is as follows:

THE FRESHMAN YEAR

	F	W	S
QUARTER			
English Composition	3	3	3
Mathematics of Finance .....	...	3	3
Economic Geography	3	3	3
American Government	3	3	3
Foreign Language	3	3	3
Introduction to Business	3	...	...
Filing .....	...	3	3
Physical Education	2	2	2
Hygiene .....	...	...	...

THE SOPHOMORE YEAR

	F	W	S
QUARTER			
English Literature	3	3	3
Principles of Economics	3	3	3
Principles of Accounting	3	3	3
Foreign Lang. or Elective	3	3	3
General Psychology	3	3	3
Business Correspondence	3	3	3

THE JUNIOR YEAR

	F	W	S
QUARTER			
Money & Banking	3	3	...
Economics of Consumption.....	...	...	3
Elementary Shorthand	5	5	5
Elementary Typewriting	3	3	3
Business Law	3	3	3
*History	3	3	3
*Labor Economics	3	3	...
†Principles of Education	3	...	...
†Psychology of Adolescence .....	...	...	3
†Prin. of Business Education.....	...	3	...
†Advanced Accounting	3	3	3

THE SENIOR YEAR

	F	W	S
QUARTER			
Secretarial Science .....	...	3	3
Office Management	3	...	...
Advanced Shorthand	5	5	5
Advanced Typewriting	3	3	3
Statistics	3	3	...
Elective .....	...	...	3
*Advanced English elective	3	3	3
*Electives	3	3	3
†Meth. of Teaching Bus. Subj.	3	...	...
†Practice Teaching .....	...	3	3
†History	3	3	3

* Secretarial students only.

† Commercial Teaching students only.

THE ENGINEERING CURRICULA

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

All freshman and sophomore men are required to complete the two basic courses in Military Science for a total credit of twelve quarter hours, which 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 these curricula may become affiliated with their respective national professional engineering societies, the American Society of Civil Engineers, the American Institute of Electrical Engineers, and the American Society of Mechanical Engineers, as each of these organizations has authorized a student chapter at the University of Vermont. These student organizations sponsor frequent meetings, the purpose of which is to present an opportunity for students to conduct activities similar to those conducted by members of the national societies. These activities include meetings at which technical papers are presented by students and by engineers who are actively engaged in the profession; attendance at conventions and inspection trips, all of which provide helpful contact with engineering practice and also assist in the development of the qualities of leadership which are so essential for success in the engineering profession.

THE FRESHMAN YEAR

(For All Curricula)

	F	W	S
	QUARTER		
Freshman Mathematics	5	4	5
Mechanical Drawing	3	2	3
General Chemistry	5	5	5
English Composition	3	3	3
Engineering Materials	2	2	2
Military Science (Men)	2	2	2
Physical Education	1	1	1
	19	19	19

CIVIL ENGINEERING

THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Calculus	3	3	3
General Physics	5	5	5
English, Expository Writing	3	...	...
Statics & Kinetics	3	3	3
Surveying	4	4	4
Military Science (Men)	2	2	2
Physical Education	1	1	1
(Engineering Camp 3 hours, summer)	...	...	...
	18	18	18

ELECTRICAL ENGINEERING

THE SOPHOMORE YEAR	F	W	S
QUARTER			
Calculus	3	3	3
General Physics	5	5	5
English, Expository Writing.....	3	...	...
Statics & Kinetics .....	...	3	3
Elements of Elec. Engrg.	5	...	...
D. C. Machines .....	...	3	3
Electrical Laboratory .....	...	1	1
Military Science (Men)	2	2	2
Physical Education	1	1	1
	19	18	18

MECHANICAL ENGINEERING

THE SOPHOMORE YEAR	F	W	S
QUARTER			
Calculus	3	3	3
General Physics	5	5	5
English, Expository Writing.....	3	...	...
Statics & Kinetics.....	...	3	3
Public Speaking .....	...	3	...
English Elective .....	...	...	3
Manufacturing Processes.....	2	2	2
Mechanical Engrg. Laboratory.....	2	...	...
Military Science (Men).....	2	2	2
Physical Education	1	1	1
	18	19	19

CIVIL ENGINEERING

THE JUNIOR YEAR	F	W	S
QUARTER			
Mechanics of Materials	3	3	...
Reinforced Concrete .....	...	...	3
Principles of Economics.....	3	3	...
Advanced Surveying .....	...	...	3
D. C. Circuits & Machines	4	...	...
A. C. Circuits & Machines.....	...	4	4
Graphic Statics	3	...	...
Bridge Stresses .....	...	3	3
Mapping	2	...	...
Public Speaking .....	...	...	3
Approved Elective	3	5	2
	18	18	18

THE SENIOR YEAR	F	W	S
QUARTER			
Bridge Design	4	4	...
Economics of Public Utilities .....	...	3	...
Introduction to Business	3	...	...
Hydraulics and Hydraulics Lab. ....	...	...	5
Contracts	3	...	...
Sanitary Engineering .....	...	4	4
Engineering Geology	4	...	...
Engineering Construction .....	...	3	...
Highway Engineering .....	...	...	4
Masonry Construction	2	2	...
Materials Laboratory .....	...	...	2
Approved Elective	2	2	3
	18	18	18

ELECTRICAL ENGINEERING

THE JUNIOR YEAR	F	W	S
QUARTER			
Differential Equations	3	...	...
Mechanics of Materials.....	3	3	...
Power Engineering .....	...	...	4
Structural Materials Lab. ....	...	1	...
Thermodynamics .....	...	5	...
A. C. Circuits	5	3	...
A. C. Machines .....	...	...	4
Electronics .....	...	...	5
Electrical Laboratory	1	1	2
Principles of Economics	3	3	3*
*Engineering Accounting	3	3	...
	18	19	18

THE SENIOR YEAR	F	W	S
QUARTER			
Metallurgy .....	...	5	...
Contracts	3	...	...
A. C. Machines	3	4	...
Electrical Laboratory	2	2	2
Communication Engineering	4	...	...
Hydraulics & Hydraulics Lab. ....	...	...	5
Power Transmission .....	...	...	3
Economics (Labor, Public Utilities)	3	3	...
Public Speaking .....	...	...	3
American Government .....	...	...	3
Approved Electives	4	4	3
	19	18	19

* May be omitted by those taking Advanced Military Science.

MECHANICAL ENGINEERING

THE JUNIOR YEAR

F W S
QUARTER

Mechanics of Materials	3	3	...
Industrial Metallurgy	5	...	...
Kinematics .....	...	...	5
Thermodynamics .....	...	5	...
Hydraulics & Hydraulics Lab. ....	...	5	...
D. C. Circuits & Machines.....	4	...	...
A. C. Circuits & Machines.....	4	4	...
Structural Materials Lab. ....	...	1	...
Mech. Engr. Lab. ....	...	1	...
Economic Principles	3	3	...
Approved Elective	3	3	3

18 19 18

THE SENIOR YEAR

F W S
QUARTER

Machine Design	4	4	4
Industrial Engineering	5	...	...
Factory Planning .....	...	4	...
Aerodynamics .....	...	...	4
Steam Power Plants	4	...	...
Air Conditioning .....	...	4	...
Internal Combustion Engines.....	...	...	5
Contracts	3	...	...
Mech. Engr. Lab. ....	...	1	2
Seminar .....	...	2	...
Approved Elective	3	3	3

19 18 18

COURSES OF INSTRUCTION

*CHEMISTRY

Professor Braun; Assistant Professors Baker, Crooks, Gregg, Little, and Smith; Miss Constance Brown, Messrs. Cook, Hackett, Lucarini and Merritt, and Miss Robertson.

1-2-3 GENERAL CHEMISTRY. (3-4)

Five hours. F, W, S

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

Prerequisite: one year of high school mathematics.

The Staff

4-5 OUTLINE OF INORGANIC CHEMISTRY. (3-4)

Five hours. W, S

An introduction to inorganic chemistry, especially for students in Home Economics and Agriculture, as a foundation for 6-7. Lectures, recitations, laboratory. Fee \$3.50 per quarter.

Prerequisite: one year of high school mathematics.

Mr. Crooks

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

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

6-7 OUTLINE OF ORGANIC CHEMISTRY. (2-2) *Three hours. F, W*

An introduction to organic chemistry, for students in Home Economics and Agriculture. Fee \$2.50 per quarter.

Prerequisite: 1-2 or 4-5.

Mr. Crooks

10 CHEMISTRY OF FOODS. (2-4) *Four hours. S*

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

Prerequisite: 6-7 or 101-102-103.

Mr. Little

11 ELEMENTARY BIOCHEMISTRY. (2-4) *Four hours. W*

Introduction to the chemistry of living matter. Chemistry and metabolism of essential constituents of food: carbohydrates, proteins, fats, vitamins. Fee \$7.50.

Prerequisite: 6-7 or 101-102-103.

Mr. Little

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

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

Prerequisite: 1-2-3.

Mr. Baker

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

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

Prerequisite: 1-2-3.

Mr. Baker

101-102-103 ORGANIC CHEMISTRY. (3-4) *Five hours. F, W, S*

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

Prerequisite: 1-2-3.

Messrs. Braun and Gregg

G104-105-106 ADVANCED QUANTITATIVE ANALYSIS. (2-3)

Three hours. F, W, S

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

Prerequisite: 20, 21-22.

Mr. Baker

G107-108-109 PHYSICAL CHEMISTRY. (3-0) *Three hours. F, W, S*

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

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

Mr. Smith

G110-111-112 PHYSICAL CHEMISTRY LAB. (0-6) *Two hours.* F, W, S
Recommended to students who enroll in 107-108-109. Fee \$3.50
per quarter.

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

G134-135-136 ADVANCED PHYSICAL & INORGANIC. (3-0)
Three hours. F, W, S

Recent advances in inorganic chemistry, including some work in catalysis and coordination compounds; thermodynamics and chemical kinetics.

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

G137-138-139 ADVANCED ORGANIC. (3-0) *Three hours.* F, W, S

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

Prerequisite: 101-102-103; 107-108-109. *Messrs. Braun and Gregg*

G143 ADVANCED ORGANIC LABORATORY. *Five hours.* F

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

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

G144 QUALITATIVE ORGANIC ANALYSIS. *Five hours.* W

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

Prerequisite: 20, 21-22; 101-102-103. *Mr. Braun*

G191 SEMINAR. (3-0) *Three hours.* S

Student reports on current research papers appearing in English or German. Required of graduate students in Chemistry, seniors in the Chemistry Curriculum, and seniors concentrating in Chemistry.

The Staff

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

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

The Staff

G201, 202, 203 GRADUATE RESEARCH. *Credit as arranged.* F, W, S

Open to graduate students in Chemistry only. On completion of the research problem the results will be submitted in written form to the department. Three copies, suitably bound, are required.

The Staff

*ECONOMICS

Professor Lobman; Associate Professors Briggs, Nulty, and Woodward; Assistant Professors Brinker and Grosscup; Mrs. Maybury, Messrs. Suojanen and Wentworth.

†1-2-3 ECONOMIC GEOGRAPHY.

Three hours. F, W, S

Geography as a basis for economic development; importance of materials, distribution, and transportation to national economies in war and peace.

Miss Woodard

†4, 5, 6 ECONOMIC HISTORY.

Three hours. F, W, S

4 The United States, 1791-1865.

5 The United States, 1865-1914.

6 The United States since 1914.

Miss Woodard

†7-8 STATISTICS.

Three hours. F, W

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

Prerequisite: sophomore standing.

Mr. Grosscup

9 INTRODUCTION TO BUSINESS.

Three hours. F

A survey of business policies, organization, facilities, and techniques. Analysis of actual case problems encountered by business.

Mr. Suojanen

†10-11-12 PRINCIPLES OF ECONOMICS.

Three hours. F, W, S

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

Prerequisite: sophomore standing or approval of the department.

The Staff

†13-14-15 PRINCIPLES OF ACCOUNTING.

Three hours. F, W, S

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

Prerequisite: sophomore standing.

Messrs. Briggs and Suojanen

18, 19, 20 BUSINESS LAW.

Three hours. S

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

Prerequisite: sophomore standing.

Mr. Grosscup

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

† These courses are accepted for credit in the College of Arts and Sciences.

21, 22 MARKETING.

Three hours. F, W

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

Prerequisite: 10-11-12.

Mr. Wentworth

23 SALESMANSHIP.

Three hours. S

The modern sales organization; the importance in present-day selling of sales personality, knowledge of the product, and knowledge of the prospect.

Prerequisite: 21, 22.

Mr. Wentworth

†24 THE ECONOMICS OF CONSUMPTION.

Three hours. S

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

Prerequisite: 10-11-12.

30-31 ENGINEERING ACCOUNTING.

Three hours. F, W

An elementary course designed to meet the needs of engineers. Not open to others.

†G101-102 MONEY AND BANKING.

Three hours. F, W

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

Prerequisite: 10-11-12.

Mr. Lobman

†G104-105 PUBLIC FINANCE AND TAXATION.

Three hours. W, S

The principles and problems of government spending, borrowing, and taxing and their effects upon both the individual business unit and the economy as a whole.

Prerequisite: 10-11-12.

Mr. Lobman

†G106-107 CORPORATION FINANCE.

Three hours. W, S

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

Prerequisite: 10-11-12; 13.

Mr. Grosscup

G108 INVESTMENTS.

Three hours. S

The various types of investment securities and the principles underlying the selection of an investment.

Prerequisite: 101-102.

Mr. Grosscup

† These courses are accepted for credit in the College of Arts and Sciences.

- 109 CREDITS AND COLLECTIONS. *Three hours. S*
Business and consumer credit; risk determination, collection policy, procedure, and control; legal aspects.
Prerequisites: 21, 22.
- 110 PURCHASING AND MATERIALS CONTROLS. *Three hours. F*
The function of the purchasing department; problems, methods, and control of purchasing.
Prerequisite: 21, 22.
- †G111-112 LABOR ECONOMICS. *Three hours. F, W*
Principles involved in the employer-employee relation; economics of wages, hours, unemployment, collective bargaining, and other major problems.
Prerequisite: 10-11-12. *Mr. Brinker*
- 113-114-115 ADVANCED ACCOUNTING. *Three hours. F, W, S*
The principles and practice of advanced accounting.
Prerequisite: 13-14-15. *Mr. Briggs*
- G116 AUDITING. *Three hours. F*
The theory and practice of auditing. Types of audits, audit procedure, working papers, and reports.
Prerequisite: 113-114-115. *Mr. Briggs*
- G117-118 COST ACCOUNTING. *Three hours. W, S*
A thorough consideration of the basic principles of cost accounting and their practical application.
Prerequisite: 113-114-115. *Mr. Briggs*
- 119 FEDERAL TAXES. *Three hours. F*
The technical and accounting aspects of the income, estate, gift, and excise tax laws.
Prerequisite: 13-14-15. *Mr. Briggs*
- 120 FINANCIAL STATEMENTS. *Three hours. W*
Preparation and analysis of the more common types of accounting statements which are of importance to business managers, investors, and credit analysis.
Prerequisite: 13-14-15. *Mr. Briggs*
- G121 C. P. A. PROBLEMS. *Three hours. S*
A review of accounting theory and practice for those interested in professional accounting.
Prerequisite: 113-114-115. *Mr. Briggs*

† These courses are accepted for credit in the College of Arts and Sciences.

- 122-123 INDUSTRIAL MANAGEMENT. *Three hours. F, W*
General nature, functions, and trends of organization and management in American industry.
Prerequisite: 10-11-12. *Mr. Suojanen*
- 124 PERSONNEL MANAGEMENT. *Three hours. S*
Principles governing the application of the human factor to capital, with especial emphasis upon selection, training, placement, and wage systems.
Prerequisite: 10-11-12. *Mr. Suojanen*
- †125 TRANSPORTATION. *Three hours. F*
Social and economic aspects of the transportation problem as revealed by an analysis of the nature, history, and problems of the various transportation agencies of the United States.
Prerequisite: 10-11-12; Political Science 1, 2, 3. *Mr. Wentworth*
- †G126 PUBLIC UTILITIES. *Three hours. W*
The economic basis of public utility enterprise: its nature and scope, its development, legal organization, and problems.
Prerequisite: 10-11-12; Political Science 1, 2, 3. *Mr. Lobman*
- 127 GOVERNMENT AND BUSINESS. *Three hours. S*
Trade associations, price maintenance policies under state and federal enactments; the work and functions of state and federal regulatory bodies.
Prerequisite: 10-11-12; Political Science 1, 2, 3.
- †G128 INTERNATIONAL ECONOMIC PROBLEMS. *Three hours. S*
Important aspects of international cooperation and conflict in the economic sphere. The quest for foreign markets, raw materials, investment opportunities, and population outlets.
Prerequisite: 10-11-12. *Mr. Lobman*
- †G129-130 BUSINESS CYCLE THEORY. *Three hours. W, S*
The economic cycle in the light of historical and statistical information. Theoretical analysis of causes of depression and prosperity.
Prerequisite: 7-8 and 10-11-12. *Mr. Brinker*
- G134-135-136 PERSONNEL ADMINISTRATION. *Three hours. F, W, S*
Methods and practice in modern personnel work.
Prerequisite: 124. *Mr. Fawcett*
- 137 SALES MANAGEMENT. *Three hours. F*
Problems of organization and management facing the executive in charge of a business selling activities.
Prerequisite: 23.

† These courses are accepted for credit in the College of Arts and Sciences.

138-139 ADVERTISING PRINCIPLES AND PROCEDURE. *Three hours.* W, S

Principles of advertising which underlie the preparation of copy, choosing media, and analyzing specialized agencies.

Prerequisite: 23.

†G140-141 HISTORY OF ECONOMIC THOUGHT. *Three hours.* F, W

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

Prerequisite: 10-11-12.

Mr. Grosscup

†G142 MODERN ECONOMIC THOUGHT. *Three hours.* S

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

Prerequisite: 140-141.

Mr. Grosscup

†143-144 INTERMEDIATE ECONOMIC ANALYSIS. *Three hours.* F, W

An analysis of consumer demand, imperfect and monopolistic competition, equilibrium theory, and the determination of distributive shares.

Prerequisite: 10-11-12.

Mr. Grosscup

†145 PRINCIPLES OF FOREIGN TRADE.

Three hours. S

The theory, channels, and technique of foreign trade.

Prerequisite: 101-102.

Mr. Grosscup

†G151, 152, 153 SEMINAR.

Three hours. F, W, S

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

Prerequisite: senior standing.

Mr. Lobman

The following three courses are given by the Department of Mechanical Engineering for students in the Industrial Management option of the Business Curriculum. For descriptions see Mechanical Engineering 175, 176, 177.

TIME AND MOTION STUDIES. (3-6)

Five hours. F

PLANT ORGANIZATION. (3-6)

Five hours. W

QUALITY CONTROL. (3-6)

Five hours. S

† These courses are accepted for credit in the College of Arts and Sciences.

***ECONOMICS (Secretarial)**

Associate Professor Nulty; Mrs. Maybury

49-50-51 **TYPING FOR PERSONAL USE.** *No credit. F, W, S*
Instruction in correct technique; mastery of the keyboard; practice to attain typing proficiency. Fee \$15.00 per quarter.

52-53-54 **ELEMENTARY SHORTHAND.** *Five hours. F, W, S*
Instruction in the fundamental principles of Gregg Shorthand. Dictation and transcription of business letters. Fee \$5.50 per quarter.
Miss Nulty

55-56-57 **ADVANCED SHORTHAND.** *Five hours. F, W, S*
Dictation covering a broad business vocabulary and a variety of literary and technical subject-matter. Emphasis on speed in taking dictation and in transcribing. Fee \$5.50 per quarter. *Miss Nulty*

58-59-60 **ELEMENTARY TYPEWRITING.** *Three hours. F, W, S*
Instruction in the care of the typewriter; correct technique; mastery of the keyboard; practice in variety of forms of material. Fee \$5.50 per quarter. *Miss Nulty*

61-62-63 **ADVANCED TYPEWRITING.** *Three hours. F, W, S*
Development of typing speed. Projects covering the different kinds of commercial typing. Transcription of shorthand notes. Fee \$5.50 per quarter. *Mrs. Maybury*

64-65-66 **BUSINESS CORRESPONDENCE.** *Three hours. F, W, S*
Instruction and practice in writing business letters and reports. *Mrs. Maybury*

67-68 **FILING.** *Three hours. W, S*
Methods of indexing and filing; organization of filing systems and a businessman's library; laboratory practice. *Mrs. Maybury*

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

71-72 **SECRETARIAL SCIENCE.** *Three hours. W, S*
Instruction and practice in the duties performed by the secretary in the business office. Laboratory practice on office machines. *Mrs. Maybury*

* These courses are open only to students in the Secretarial and Commercial Teaching Curricula, except that 49-50-51 is elective by permission, and students in Medical Technology may take 64-65 and 67.

† These courses are accepted for credit in the College of Arts and Sciences.

- 73 **PRINCIPLES OF BUSINESS EDUCATION.** *Three hours. W*
 Principles underlying the organization of high-school business curricula and the teaching of business subjects. *Miss Nulty*
- 74 **METHODS OF TEACHING BUSINESS SUBJECTS.** *Three hours. F*
 The aims and content of business subjects offered in the junior and the senior high school, and the most effective methods of teaching these subjects. *Miss Nulty*
- 75-76 **OBSERVATION AND PRACTICE TEACHING.** *Three hours. W, S*
 Directed observation and supervised practice in teaching business subjects in a junior or senior high school in or near Burlington. General conference once a week; individual conferences with supervisors and training teacher. Continuation of the study of special methods. Fee \$10.00. *Miss Nulty*

ENGINEERING, CIVIL

*Professor Puffer; Assistant Professors *Douglas and Milbank; Mr. Carver*

- 1 **ENGINEERING MATERIALS. (2-0)** *Two hours. W*
 A brief descriptive course dealing with the materials used by engineers.
- 51, 52, 53 **SURVEYING. (3-3)** *Four hours. F, W, S*
 51 Elementary surveying and use of instruments.
 52 Plane and topographic surveying.
 53 Route surveying, for highways, railroads, etc.; theory of curves and earthwork calculations.
Prerequisite: Math.-Mech. 12; 51 for 52; 52 for 53.
- 54 **ENGINEERING CAMP.** *Three hours. S*
 Three weeks summer field practice between sophomore and junior years. Fee \$6.00. (Not offered 1947.)
Prerequisite: 52.
- 101 **MAPPING. (0-4)** *Two hours. F*
 Plotting of map from notes taken at Engineering Camp. (Not offered 1947.)
Prerequisite: 54.
- 102 **ADVANCED SURVEYING. (1-6)** *Three hours. S*
 Field and office problems.
Prerequisite: 53.

* Resigned January 1, 1947.

- 103 GRAPHIC STATICS. (0-6) *Three hours. F*
Graphic determination of stresses in structures.
Prerequisite: Math.-Mech. 24.
- 104 BRIDGE STRESSES. (2-3) *Three hours. W*
Prerequisite: Math.-Mech. 131.
- 105 BRIDGE STRESSES. (3-0) *Three hours. S*
Prerequisite: 104.
- 106 REINFORCED CONCRETE. (2-2) *Three hours. S*
Theory and design.
Prerequisite: Math.-Mech. 131, 132.
- 151 CONTRACTS AND ENGINEERING RELATIONS. (3-0) *Three hours. F*
Study of contract law and professional ethics.
- 161 HYDRAULICS. (4-0) *Four hours. S*
The mechanics of liquids.
Prerequisite: Math.-Mech. 24, 25.
- 162 HYDRAULICS LABORATORY. (0-3) *One hour. S*
Given in conjunction with 161. Fee \$2.00.
- 163-164 WATER POWER ENGINEERING. (3-0) *Three hours.*
Two quarters. Elective course.
Prerequisite: 161, 162.
- 165, 166 SANITARY ENGINEERING. (4-0) *Four hours. W, S*
165 Design, construction, maintenance, and operation of public water supplies.
166 Design, construction, maintenance, and operation of sewerage systems and sewage treatment plants.
- 171 HIGHWAY ENGINEERING. (3-2) *Four hours. S*
Design, construction, and maintenance of modern highways.
Prerequisite: Math.-Mech. 131, 132.
- 172 MATERIALS LABORATORY. (0-6) *Two hours. S*
Testing of engineering materials and soils. Fee \$4.00.
Prerequisite: Math.-Mech. 131, 132.
- 181, 182 BRIDGE DESIGN. (0-8) *Four hours. F, W*
181 Design of truss and girder bridges, stress sheets, shop drawings, and estimates.
182 Continuation of 181.
Prerequisite: 103, 104, 105.

- 183 ENGINEERING CONSTRUCTION. (3-0) *Three hours. W*
Foundations of structures, bearing power of soils, and construction methods.
Prerequisite: Math.-Mech. 131, 132.
- 184, 185 MASONRY CONSTRUCTION. (0-4) *Two hours. F, W*
184 Design of dams, retaining walls, and other masonry structures.
185 Continuation of 184.
Prerequisite: 106; 184 for 185.

ENGINEERING, ELECTRICAL

Professor McKee; Associate Professor Buchanan; Assistant Professors Brown, Shorey, and Smith

- 51 ELEMENTS OF ELECTRICAL ENGINEERING. (5-0) *Five hours. F*
Prerequisite: credit or enrollment in Math. 21.
- 52, 53 DIRECT CURRENT MACHINES. (3-0) *Three hours. W, S*
Prerequisite: 51; 52 for 53.
- 54, 55 ELECTRICAL LABORATORY. (0-3) *One hour. W, S*
Fee \$2.00.
Prerequisite: 51; 54 and credit or enrollment in 53 for 55.
- 101 DIRECT CURRENT CIRCUITS AND MACHINES. (3-3) *Four hours. F*
Fee \$2.00.
Prerequisite: Math. 23; Physics 11-12-13.
- 102 ALTERNATING CURRENT CIRCUITS AND MACHINES. (3-3) *Four hours. W*
Fee \$2.00.
Prerequisite: 101.
- 103 ALTERNATING CURRENT MACHINES. (3-3) *Four hours. S*
Fee \$2.00.
Prerequisite: 102.
- 104 ALTERNATING CURRENT CIRCUITS. (5-0) *Five hours. F*
Prerequisite: 51; Math. 23.
- 105 ALTERNATING CURRENT CIRCUITS. (3-0) *Three hours. W*
Prerequisite: 104.
- 106 ALTERNATING CURRENT MACHINES. (4-0) *Four hours. S*
Prerequisite: 105.

- 107-108 ELECTRICAL LABORATORY. (0-3) *One hour. F, W*
 Fee \$2.00.
Prerequisite: 53, 55; 107 and credit or enrollment in 105 for 108.
- 109 ELECTRICAL LABORATORY. (0-6) *Two hours. S*
 Fee \$4.00.
Prerequisite: 108 and credit or enrollment in 106.
- 110 ELECTRONICS. (4-3) *Five hours. S*
 Fee \$2.00.
Prerequisite: 103 or 104; Physics 11-12-13.
- 151 ALTERNATING CURRENT MACHINES. (3-0) *Three hours. F*
Prerequisite: 106.
- 152 ALTERNATING CURRENT MACHINES. (4-0) *Four hours. W*
Prerequisite: 151.
- 153, 154, 155 ELECTRICAL LABORATORY. (0-6) *Two hours. F, W, S*
 Fee \$4.00.
Prerequisite: 109 and credit or enrollment in 151; 153 and credit or enrollment in 152 for 154; 154 for 155.
- 156 POWER TRANSMISSION. (3-0) *Three hours. S*
Prerequisite: 105.
- 157 COMMUNICATION ENGINEERING. (3-3) *Four hours. F*
 Long lines in steady state, networks and loading. Fee \$2.00.
Prerequisite: 105.
- 159 INDUSTRIAL ELECTRONICS. (3-3) *Four hours. F*
 A continuation of 110 with emphasis on control and power applications. Fee \$2.00.
Prerequisite: 110.
- 160 POWER STATIONS. (3-0) *Three hours. W*
 The electrical engineering features of steam, water, and oil engine power plants.
Prerequisite: enrollment in 152 or credit in 103.
- 161 TRANSIENT PHENOMENA. (3-3) *Four hours. S*
 The mathematical development of common voltage and current transients with experimental check by means of the oscillograph. Fee \$2.00.
Prerequisite: 105.

- 162-163 COMMUNICATION ENGINEERING. (3-3) *Four hours. W, S*
 Fundamental principles of radio transmitting and receiving systems.
 Fee \$2.00 per quarter.
Prerequisite: 105; 110.
- 164 U. H. F. CIRCUITS. (3-3) *Four hours. S*
 Circuits and techniques for use at ultra-high frequencies. Fee \$2.00.
Prerequisite: 157; 162.
- 170, 171, 172 SPECIAL TOPICS. (2-3) *Three hours. F, W, S*
 Formulation and solution of theoretical and practical problems dealing with electrical circuits, apparatus, machines, or systems. May be elected for one, two, or three quarters.
Prerequisite: 53; 105.

ENGINEERING, MECHANICAL

Professor Chapman; Associate Professor Sidle; Assistant Professor Osgood; Messrs. Hopkinson, Kenfield, Toolles, and Tutbill

- 1 MECHANICAL DRAWING. (0-9) *Three hours. F*
 Practice in the use of drawing instruments; lettering, geometric construction, orthographic projection, and sketching.
- 2 MECHANICAL DRAWING (0-6) *Two hours. W*
 Practice in auxiliary projection, sectional views, dimensioning, and drawing of machine elements.
Prerequisite: 1.
- 3 MECHANICAL DRAWING. (0-9) *Three hours. S*
 Practice in constructing intersections and developed surfaces. Detail and assembly drawings.
Prerequisite: 2.
- 51, 52, 53 MANUFACTURING PROCESSES. (0-6) *Two hours. F, W, S*
 51 Principles of metal machining and forming. Fee \$4.00.
 52 Principles of metal casting and welding. Fee \$4.00.
 53 Methods, jigs, fixtures, tooling, and gauges for interchangeable manufacturing. Fee \$4.00.
Prerequisite: 3 for 51 and 52; 51 for 53.
- 71 MECHANICAL ENGINEERING LABORATORY. (0-6) *Two hours. F*
 Pressure, temperature, speed, power, and area measuring instruments. Experiments in calorimetry. Fee \$4.00.
Prerequisite: Chemistry 3.

101 INDUSTRIAL METALLURGY. (3-6) *Five hours. F*

The fundamentals of ferrous and non-ferrous metallurgy. Physical and metallographic characteristics correlated with the theory and practice of industrial metallurgical processes. Fee \$4.00.

Prerequisite: Chem. 3; Physics 13.

112 THERMODYNAMICS. (5-0) *Five hours. W*

The fundamental principles of engineering thermodynamics and the application of these principles to heat engine, air compression, and refrigeration cycles and to heat transfer.

Prerequisite: Physics 13; Math.-Mech. 23, 25; 71.

116 POWER ENGINEERING. (3-3) *Four hours. S*

A short course in the fields of steam and internal combustion engine power. Analysis of the design, operation, and performance of characteristic equipment. Fee \$2.00.

Prerequisite: 112.

133 KINEMATICS. (3-6) *Five hours. S*

The analysis of displacements, velocities, and accelerations in machines and the application of such analysis to cams, gears, and other mechanisms.

Prerequisite: 3; Math.-Mech. 25.

143 MECHANICAL ENGINEERING LABORATORY. (0-3) *One hour. S*

Experiments to verify thermodynamic principles. Fuel and lubricant tests. Fee \$2.00.

Prerequisite: 112.

151, 152, 153 MACHINE DESIGN. (3-3) *Four hours. F, W, S*

151 Mathematical and graphical methods for determination of stresses in machine parts.

152 Design of elements of machines taking into consideration stresses, deflections, and wear as affected by various service conditions.

153 Design of complete machines considering arrangement of elements and various methods of fabrication.

Prerequisite: 133 and Math.-Mech. 132 for 151; 151 for 152; 152 for 153.

155 MECHANICAL VIBRATIONS. *Three hours.*

An advanced course in the field of machine design with special emphasis on problems of vibrations. Topics include causes of vibrations, methods of study of vibratory motion, determination of vibration stresses, and methods of balancing and damping. Elective (M.E.) seniors by permission.

- 161 STEAM POWER PLANTS. (3-3) *Four hours. F*
The thermodynamic and mechanical principles of the design, installation, operation, and performance of steam power plant equipment. Fee \$2.00.
Prerequisite: 112.
- 162 AIR CONDITIONING. (3-3) *Four hours. W*
The applications of the fundamental principles of thermodynamics to the design and performance of air conditioning equipment and systems for residences, public buildings, and industrial plants. Fee \$2.00.
Prerequisite: 112.
- 163 INTERNAL COMBUSTION ENGINES. (4-3) *Five hours. S*
The thermodynamic and mechanical principles of the design, operation, and performance of spark ignition and compression ignition engines and combustion turbines. Fee \$2.00.
Prerequisite: 112.
- 165 ADVANCED HEAT ENGINES. *Three hours.*
Advanced study in theoretical thermodynamics with applications in specific types of heat engines according to the interests of the students. Elective (M.E.) seniors by permission.
- 168 MECHANICAL ENGINEERING LABORATORY. (0-3) *One hour. W*
Experiments illustrating operating characteristics of steam power, air conditioning, and refrigeration apparatus. Fee \$2.00.
Prerequisite: 161.
- 169 MECHANICAL ENGINEERING LABORATORY. (0-6) *Two hours. S*
Comprehensive performance tests of mechanical equipment. Fee \$4.00.
Prerequisite: 168.
- 171 INDUSTRIAL ENGINEERING. (3-6) *Five hours. F*
The principles of management and their applications to industrial organizations and industrial operations. Fee \$4.00.
Prerequisite: 52, 53.
- 172 FACTORY PLANNING. (2-6) *Four hours. W*
The systematic analysis of the requirements of a factory for a specific purpose. Work includes the consideration of such items as location, plant design, equipment requirements, general layout, and production planning.
Prerequisite: 171.

- 175 **TIME AND MOTION STUDY.** (3-6) *Five hours. F*
 Principles and methods of making time and motion studies and time formula construction. For students in the Business Curriculum only.
Prerequisite: Economics 124.
- 176 **PLANT ORGANIZATION.** (3-6) *Five hours. W*
 Analysis of plant requirements as to location, equipment, layout, and production scheduling. For students in the Business Curriculum only.
Prerequisite: Economics 122-123.
- 177 **QUALITY CONTROL.** (2-6) *Five hours. S*
 Analysis of management techniques for assuring quality; use of inspection devices. For students in the Business Curriculum only.
Prerequisite: Economics 122-123.
- 183 **AERODYNAMICS.** (4-0) *Four hours. S*
 The application of the principles of the mechanics of fluids to the airplane, to fan and propeller characteristics, and to the flow of gases and vapors.
Prerequisite: C.E. 161, 162.
- 192 **SEMINAR.** (2-0) *Two hours. W*
 Discussions of the Mechanical Engineering Profession, the ethics, responsibilities, and status of members of the profession, and timely activities of present-day practice. Current issues of pertinent publications are used as collateral reading and as guides in the study and discussion of contemporary progress in the field.
- 195 **SPECIAL PROBLEMS.** *Two or three hours.*
 A study and investigation on a topic or problem of special interest to the student. Formal submission of results in thesis form required. Problems must be approved by the Chairman of the Department before election of the course. Elective (M.E.) seniors by permission.

* MATHEMATICS AND MECHANICS

Professors Bullard and Fraleigh; Assistant Professors Larrivee, McClay, Millington, and Nicholson; Messrs. Powers and Seaver

A ALGEBRA REVIEW.

No credit. F

A review of algebra for returning veterans and others.

B SOLID GEOMETRY.

No credit. F

Required of those enrolling in engineering who do not present solid geometry for entrance. Elective to others.

1, 2, 3 FRESHMAN MATHEMATICS.

Three hours. F, W, S

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

1 Elementary college algebra.

2 Plane trigonometry.

3 Plane analytic geometry.

Prerequisite: 1 and 2 for 3.

4 MATHEMATICS OF FINANCE.

Three hours. W

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

Prerequisite: 1.

5 STATISTICS.

Three hours. S

Introduction to the fundamentals of mathematical statistics.

Prerequisite: 1.

7 ANALYTIC GEOMETRY OF THREE DIMENSIONS.

Three hours. F

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

Prerequisite: 1, 2, 3.

11, 12, 13 FRESHMAN MATHEMATICS.

F, W, S

For students who intend to concentrate in science or mathematics.

11 College algebra

Five hours.

12 Plane and spherical trigonometry.

Four hours.

13 Plane and solid analytic geometry.

Five hours.

Prerequisite: 11 and 12 for 13.

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

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

14-15-16 MODERN GEOMETRY.

Three hours. F, W, S

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

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

17-18-19 CALCULUS.

Three hours. F, W, S

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

Prerequisite: 3 or 13.

21-22-23 CALCULUS.

Three hours. F, W, S

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

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

24 THEORETICAL MECHANICS (STATICS).

Three hours. W

The fundamental concepts, the resultant of a force system by graphical and analytical methods, conditions of equilibrium with application to cranes, trusses, and flexible cables, center of gravity, moment of inertia.

Prerequisite: 21.

25 THEORETICAL MECHANICS (KINETICS).

Three hours. S

The equations of motion of a body under the action of a force system, the principles of work and energy, impulse and momentum.

Prerequisite: 22, 24.

101-102 HIGHER ALGEBRA.

Three hours. W, S

Linear dependence, matrices, properties of polynomials, etc.

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

G104-105-106 PROJECTIVE GEOMETRY.

Three hours. F, W, S

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

Prerequisite: 21-22-23.

G107-108-109 ADVANCED CALCULUS.

Three hours. F, W, S

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

Prerequisite: 21-22-23.

G110, 111, 112 DIFFERENTIAL EQUATIONS. *Three hours. F, W, S*

110 Solution of ordinary differential equations, introducing operational methods.

111 Solution of partial differential equations; series solutions.

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

Prerequisite: 21-22-23; 110 for 111; 111 for 112.**G113-114-115 THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.***Three hours. F, W, S*

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

Prerequisite: 107-108-109.**G116-117 INFINITE SERIES.***Three hours. F, W*

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

Prerequisite: 107-108-109, unless taken simultaneously with 107-108.**G118 STATISTICS.***Three hours. S*

A second course in statistics.

Prerequisite: 5 and 21-22-23.**G131, 132 MECHANICS OF MATERIALS.***Three hours. F, W*

The behavior of elastic bodies, with particular attention to the beam, shaft, and column, including simple stress and strain, combined stresses, the elastic curve, and strain energy.

Prerequisite: 23, 24.**G201-202-203 THEORY OF FUNCTIONS.***Three hours. F, W, S*

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

Prerequisite: 107-108-109.

The College of Agriculture

The College of Agriculture performs four public functions: it teaches resident students; it investigates problems; it disseminates information; it renders related services. These four lines of work are carried out respectively by the resident teaching division; the research division, or Vermont Agricultural Experiment Station; the extension division, or Vermont Agricultural Extension Service; and the related services division.

The resident teaching division offers professional curricula in Agriculture and Home Economics. It aims to provide for young men and women educative experiences which will enable them to become successful farmers or homemakers, teachers in secondary schools or agricultural extension workers, or specialists engaged in teaching, research, or industrial or professional work in their chosen fields.

The Agricultural Experiment Station has as its essential functions to conduct research in Agriculture and Home Economics, to administer certain regulatory statutes, and to publish the results of such work.

The Vermont Agricultural Extension Service is a cooperative undertaking of the State of Vermont, the College of Agriculture, the United States Department of Agriculture, and the farm bureaus of the several counties of the State. It has a State staff, with headquarters at the University, and a staff of county extension agents in each county. Its purpose is "to aid in diffusing among the people . . . useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of the same." It works primarily with the rural people of the State, including both adults and children.

The related services division renders various services in the fields of agriculture and home economics, such as inspection of feed, seeds, and fertilizer; analysis of soils, milk, and other agricultural products on request; diagnosis of diseases of plants, poultry, and other livestock; and conduct of short courses and educational conferences.

AGRICULTURE

THE CURRICULUM IN AGRICULTURE

The curriculum in Agriculture, leading to the degree of Bachelor of Science in Agriculture, includes required and elective courses. The required courses are largely in the sciences, literature, and other subjects which are essential in providing a broad educational base for the more technical agricultural courses. The elective courses are largely in the field of agriculture, but some may be chosen from the many non-agricultural

subjects. The agricultural courses are designed to provide, first, training of a general nature as preparation for farming, secondary school teaching, or county extension work, and secondly, concentrated study in agricultural economics, agricultural education, agricultural engineering, 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 required courses listed below, and present a total of 196 quarter hours of credit, exclusive of courses required in Military Science and Physical Education. A minimum of 90 quarter hours of credit must be in agricultural subjects for those taking the general agricultural curriculum. To insure reasonable concentration in the student's field of interest, and in order that he may have a well-balanced and integrated educative experience, electives must be selected with the approval of the student's faculty advisor, to complete the total requirement.

As part of the preliminary registration program, a mathematics placement test is required of each student entering the College of Agriculture, to determine whether he should take the non-credit course "Algebra Review" during the first quarter of his freshman year. An English placement test is also given, on the basis of which a few students are excused from "English Composition."

OUTLINE OF THE AGRICULTURAL CURRICULA

GENERAL CURRICULUM

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
F W S				F W S			
QUARTER				QUARTER			
*English Composition	3	3	3	English Lit., American Lit., or Periodical Writing	3	3	3
Elementary Botany	4	4	...	Introductory Physics	3	3	3
General Bacteriology .....	...	...	4	Outline of Organic Chem.....	3	3	...
†Algebra Review	(3)	...	...	Principles of Economics	3	3	...
Algebra, Trigonometry .....	...	3	3	Electives .....	...	...	...
Outline of Inorganic Chem.....	...	5	5	Military Science (Men)	2	2	2
Introduction to Zoology	4	...	...	Physical Education	1	1	1
Military Science (Men)	2	2	2				
Physical Education	1	1	1				
Hygiene (Women) .....	...	...	...	
THE JUNIOR YEAR				THE SENIOR YEAR			
F W S				F W S			
QUARTER				QUARTER			
General Psychology	3	3	...	Electives .....	...	...	...
Electives .....	...	...	...	

* On the basis of an English placement test a few students are excused from taking this course.

† Not required if Mathematics placement test is passed. No college credit.

SPECIALIZED CURRICULUM

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
QUARTER				QUARTER			
*English Composition	3	3	3	English Lit., American Lit., or Periodical Writing	3	3	3
Elementary Botany	4	4	...	General Physics	5	5	5
General Bacteriology .....	...	...	4	Organic Chemistry	5	5	5
Freshman Mathematics	5	4	5	Electives .....	...	...	...
General Chemistry	5	5	5	Military Science (Men)	2	2	2
Military Science (Men)	2	2	2	Physical Education	1	1	1
Physical Education	1	1	1				
Hygiene (Women) .....	...	...	...	
THE JUNIOR YEAR				THE SENIOR YEAR			
QUARTER				QUARTER			
Electives .....	...	...	...	Electives .....	...	...	...

AGRICULTURAL ENGINEERING CURRICULUM

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
QUARTER				QUARTER			
*English Composition	3	3	3	Periodical Writing	3	3	...
Elementary Botany	4	4	...	Calculus	3	3	3
Freshman Mathematics	5	4	5	Outline of Organic Chem.	3	3	...
Outline of Inorganic Chem. ....	...	...	5	Principles of Economics	3	3	...
Public Speaking 11	3	...	...	General Physics	5	5	5
Electives .....	...	...	...	Statics .....	...	3	...
Military Science (Men)	2	2	2	Kinetics .....	...	...	3
Physical Education	1	1	1	Electives .....	...	...	...
Hygiene (Women) .....	...	...	...	Military Science (Men)	2	2	2
				Physical Education	1	1	1
THE JUNIOR YEAR				THE SENIOR YEAR			
QUARTER				QUARTER			
Surveying 51, 52	4	4	...	General Psychology	3	3	...
Mechanics of Materials	3	3	...	Expository Writing	3	...	...
Mechanical Engrg. Lab.	2	...	...	Engineering Construction .....	...	3	...
General Dairy Production .....	...	3	...	Farm Electricity and Water Systems or Farm Structures .....	...	2	...
General Field Crops .....	...	...	3	Farm Power Machinery or Field Machinery	2	...	...
Farm Management .....	...	3	6	Hydraulics .....	...	...	4
Farm Electricity and Water Systems or Farm Structures ..	2	...	...	Hydraulics Laboratory .....	...	...	1
Farm Power Machinery or Field Machinery	2	...	...	General Poultry Husbandry	3	...	...
Mechanical Drawing	3	2	3	Electives .....	...	...	...
Kinematics (Elective) .....	...	...	5				
Electives .....	...	...	...	

* On the basis of an English placement test a few students are excused from taking this course.

COURSES OF INSTRUCTION

In any year, courses chosen from those listed may be given to meet the needs of students in residence. Normally courses will not be given for fewer than five students. With the termination of the emergency, the full offering of courses here outlined will be restored as rapidly as the increase in student enrollment permits.

AGRICULTURAL ECONOMICS

Associate Professor Adams; Assistant Professors Carter and Williams

G2-3 FARM MANAGEMENT. (2-2) (4-4)

Three hours, W; Six hours, S

The organization and operation of a successful farm business. Fee \$2.50, spring quarter.

Prerequisite: Economics 10-11; junior standing.

Mr. Williams

5 AGRICULTURAL COOPERATION. (3-0)

Three hours, W

The nature and development of cooperative business associations, their organization, financing, and business management.

Prerequisite: sophomore standing.

Mr. Adams

G7 MARKETING FARM PRODUCTS (2-2)

Three hours, F

The distribution of Vermont farm products and the problems involved.

Prerequisite: Economics 10-11; junior standing.

Mr. Adams

G12 PUBLIC PROBLEMS OF AGRICULTURE. (2-2)

Three hours, S

Agricultural population, land utilization, prices, and legislation of direct concern to farm interests.

Prerequisite: Economics 10-11; junior standing.

Mr. Carter

13 FARM CREDIT. (2-2)

Three hours, F

The types and sources of credit used by farmers, and the lending practices and problems of credit agencies.

Prerequisite: Economics 10-11; junior standing.

Mr. Williams

G16 RURAL SOCIOLOGY. (3-0)

Three hours, F

The groups, organizations, institutions, and social forces at work in rural areas.

Prerequisite: Economics 10-11; junior standing.

Mr. Carter

Note: The symbol "G" indicates that a course may be taken for graduate credit.

(2-2) indicates two class hours of lecture and two class hours of laboratory respectively.

- 19 RURAL COMMUNITY ORGANIZATION. (3-0) *Three hours. W*
 The technique of community organization, including rural leadership.
Prerequisite: Economics 10-11; junior standing. *Mr. Carter*

150, 151, 152 SPECIAL STUDY.

An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

AGRICULTURAL EDUCATION

Assistant Professors Luce and Woodhull

- 2 RURAL EDUCATION. (2-2) *Three hours. S*
 The organization of rural education, with emphasis on aims, principles, and methods.
Prerequisite: junior standing. *Mr. Woodhull*

- 8 VOCATIONAL METHODS. *Five hours. W*
 Methods for teachers of vocational agriculture, with consideration also of program planning and organization, including farm shop methods. Lectures and laboratory.
Prerequisite: senior standing. *Mr. Woodhull*

- 11 PRACTICE TEACHING. *Ten hours. W*
 Observation and teaching of vocational agriculture in an approved high school under supervision. Lectures and laboratory.
Prerequisite: senior standing. *Mr. Woodhull*

- 14 EXTENSION METHODS. *Three hours. S*
 Methods and technique of extension teaching. Lectures, laboratory, field work.
Prerequisite: junior standing. *Miss Luce*

150, 151, 152 SPECIAL STUDY.

An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

AGRICULTURAL ENGINEERING

Assistant Professor Schneider

- 1, 2 **GENERAL FARM ENGINEERING (3-0)** *Three hours. F, W*
An introductory course including units on gas engines, farm structures, concrete, farm water supply, electricity, refrigeration, and farm mechanics.
- 4 **FARM STRUCTURES. (2-0)** *Two hours. W*
The material, functional design, and maintenance of farm buildings, and equipment.
Prerequisite: junior standing.
- 7 **DAIRY PLANT ENGINEERING. (2-0)** *Two hours. W*
The theory and practical problems of selecting, installing, and servicing equipment in dairy processing plants. (Not offered 1946-47.)
Prerequisite: junior standing.
- 10 **FARM POWER MACHINERY. (1-2)** *Two hours. F*
The construction, operation, and maintenance of farm power units.
Prerequisite: junior standing (Not offered 1946-47.)
- 13 **FIELD MACHINERY. (1-2)** *Two hours. F*
The construction, operation, and maintenance of farm field machinery. (Not offered 1946-47.)
Prerequisite: junior standing.
- 16 **FARM SHOP. (0-6)** *Three hours. F*
Instruction in woodworking, hot and cold metal working, sheet metal, welding, and tool fitting. Fee \$4.00. (Not offered 1946-47.)
Prerequisite: junior standing.
- 19 **FARM ELECTRICITY AND WATER SYSTEMS. (1-2)** *Two hours. W*
The use of electricity on the farm and in the farm home; the principles and planning of farm water systems. (Not offered 1946-47.)
Prerequisite: junior standing.
- 150, 151, 152 **SPECIAL STUDY.**
An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.
Prerequisite: junior standing and permission of the department.

AGRICULTURAL PHILOSOPHY

For SOCIAL PHILOSOPHY OF AMERICAN AGRICULTURE see Philosophy 20 in the College of Arts and Sciences.

AGRONOMY

Professor Miller; Messrs. Kelly and Varney

- 2 FORAGE AND PASTURE CROPS. (2-2) *Three hours. F*
Hay and pasture grasses, legumes, seeding mixtures, fertilization, and management. Fee \$2.50.
Prerequisite: sophomore standing. *Messrs. Miller and Varney*
- 5 GENERAL FIELD CROPS. (2-2) *Three hours. S*
Introduction to field crops common in Vermont and throughout the United States, including science, practice, and uses. Fee \$2.50.
Messrs. Miller and Varney
- 8 GENERAL SOILS. (2-2) *Three hours. S*
Elementary principles of soil fertility and management. Fee \$3.00.
Prerequisite: sophomore standing. *Messrs. Miller and Kelly*
- 11 SOIL GEOLOGY. (2-2) *Three hours. F*
Origin, nature, and classification of soil materials; formation, survey. Fee \$3.00.
Prerequisite: sophomore standing. *Messrs. Miller and Kelly*
- 14 SOIL PHYSICS. (2-2) *Three hours. W*
Texture, structure, moisture, and temperature studies. Fee \$3.00.
Prerequisite: sophomore standing. *Messrs. Miller and Kelly*
- G17 SOIL CONSERVATION. (2-2) *Three hours. F*
Types of erosion and control; effect on general welfare; farm drainage.
Prerequisite: 14; junior standing. *Messrs. Miller and Kelly*
- G20 PLANT BREEDING. (2-2) *Three hours. F*
Principles of plant improvement; selection, hybridization, origin of species and varieties; greenhouse and field plot techniques.
Prerequisite: Botany 1-2 or 4-5-6 and 120; junior standing.
Messrs. Miller and Varney
- 23 FERTILIZERS. (2-2) *Three hours. S*
Principles of plant nutrition; nutrition deficiency symptoms; grade formulation, rates and ratios for specific crops. Fee \$3.00.
Prerequisite: sophomore standing. *Messrs. Miller and Kelly*

100 ADVANCED FIELD CROPS. (2-2)*Three hours. S*

Field inspection of farms practicing improved pasture and crop programs; study of questions from farmers relative to crops, crop rotation; field testing and plot technique. Thesis required.

Prerequisite: 5; sophomore standing.

Messrs. Miller and Varney

103 SOIL CHEMISTRY. (2-2)*Three hours. S*

Soil reaction, effect of major and minor elements, organic matter, biology. Fee \$3.00.

Prerequisite: 14; sophomore standing.

Messrs. Miller and Kelly

150, 151, 152 SPECIAL STUDY.

An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

ANIMAL AND DAIRY HUSBANDRY

*Professor Ellenberger; Associate Professors Dickey and Newlander;
Assistant Professor MacCurdy*

2, 3 LIVESTOCK. (2-3)*Three hours. F, S*

Types, breeds, market classes, and fundamentals of judging. Fee \$2.50.

2 Dairy Livestock.

3 Livestock Other Than Dairy.

Mr. Dickey

5 GENERAL DAIRY PRODUCTION. (2-2)*Three hours. W*

General portrayal of the elements of dairy production. Fee \$2.50.

Mr. Dickey

9 JUDGING DAIRY PRODUCTS. (0-6)*Three hours. S*

Quality, market standards, and scoring. Fee \$5.00.

Prerequisite: sophomore standing.

Mr. Newlander

12 DAIRY BACTERIOLOGY. (3-4)*Five hours. F*

Relation of micro-organisms to milk and milk products, methods of examination and control. Fee \$4.00.

Prerequisite: sophomore standing.

Mr. Newlander

G18 ANIMAL NUTRITION. (3-0)*Three hours. S*

Nutrients, their function and utilization, and requirements for growth, reproduction, lactation, etc.

Prerequisite: 21; Chemistry 6-7 or 101-102-103; junior standing.

Mr. Ellenberger

- 21 FEEDS AND FEEDING. (2-3)** *Three hours. F*
 Feeds, rations, and feeding practice.
Prerequisite: junior standing. *Messrs. Ellenberger and Newlander*
- G24 ANIMAL BREEDING. (3-0)** *Three hours. S*
 Practical applications of the principles of genetics to the breeding of farm animals.
Prerequisite: Botany 120; junior standing. *Mr. Dickey*
- 100 ADVANCED STOCK JUDGING. (1-6)** *Three hours. S*
 Instruction and practice in judging with emphasis on dairy cattle.
 Fee \$5.00.
Prerequisite: 2; junior standing. *Mr. Dickey*
- G104, 105 MARKET MILK. (2-3)** *Three hours. F, W*
 Quality production, processing, and distributing. Fee \$4.00 fall quarter; \$5.00 winter quarter.
Prerequisite: 12, 112, 115; junior standing. *Mr. MacCurdy*
- G106, 107, 108 DAIRY MANUFACTURE. (1-6) (2-3) (2-3)** *Three hours. F, W, S*
 The theory and practice of manufacturing dairy products. Fee \$5.00 per quarter.
 106 Ice Cream.
 107 Cheese.
 108 Butter; condensed, evaporated, and dried milk.
Prerequisite: 12, 112, 115; junior standing. *Mr. MacCurdy*
- 109 LIVESTOCK PRODUCTION. (2-3)** *Three hours. F*
 Production and management of horses, sheep, swine, and beef cattle.
 Fee \$2.50.
Prerequisite: 3; sophomore standing. *Mr. Dickey*
- 112 TESTING DAIRY PRODUCTS. (1-4)** *Three hours. W*
 Tests for fat, acidity, moisture, solids, and adulterations. Fee \$2.50.
Prerequisite: sophomore standing. *Mr. Newlander*
- 115 DAIRY CHEMISTRY. (1-4)** *Three hours. S*
 Composition and physical properties of milk and its products.
 Analyses and control. Fee \$2.50.
Prerequisite: 112; sophomore standing. *Mr. Newlander*
- G118, 119 MILK PRODUCTION. (3-0) (2-2)** *Three hours. W, S*
 Profitable production of high quality milk; milk secretion. Management of the dairy herd. Fee \$2.50 spring quarter.
Prerequisite: 21. *Mr. Dickey*

150, 151, 152 SPECIAL STUDY.

An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

ANIMAL PATHOLOGY

Professor Waller

3 POULTRY DISEASES. (3-2) *Four hours. S*

The causes, symptoms, and preventions of parasitic, infectious, and nutritional diseases of poultry. Demonstrations and necropsies. Fee \$2.00.

Prerequisite: Botany 117; sophomore standing.

4 POULTRY HYGIENE AND SANITATION. (2-0) *Two hours. W*

Hygiene and sanitary measures used in the incubation, brooding and rearing of poultry.

7 DISEASES OF FARM ANIMALS. (3-0) *Three hours. S*

The causes, symptoms, and prevention of diseases of farm animals.

Prerequisite: Botany 117; sophomore standing.

10 ANATOMY AND PHYSIOLOGY. (2-2) *Three hours. W*

The various anatomical structures and their physiological functions. Fee \$2.00.

Prerequisite: Zoology 3; sophomore standing.

150, 151, 152 SPECIAL STUDY.

An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

BOTANY AND FORESTRY

Associate Professors Marvin, Adams, Dole, and Gershoy; Assistant Professors Sproston and Taylor; Miss Raynor

1-2 ELEMENTARY BOTANY. (2-4) *Four hours. F, W*

For students concentrating in science. Fundamental principles of biology illustrated by the morphology, physiology, and reproduction of

vascular plants. The aim is to give, through a study of its forms and functions, an understanding of the plant as a dynamic unit. Fee \$1.50 per quarter.
Messrs. Taylor and Marvin; Miss Raynor

3 PLANT EVOLUTION. (2-4) *Four hours. S*

A comparative study illustrating the progression of plant types in an evolutionary series. Fee \$1.50.

Prerequisite: 1-2. *Messrs. Taylor and Marvin; Miss Raynor*

4-5-6 GENERAL BOTANY. (2-4) *Four hours. F, W, S*

An introductory course intended primarily for the general arts student not specializing in science. Structures and phenomena of growth and reproduction in the plant kingdom. The origins and relationships of the major plant groups. Evolution in the plant world. Special emphasis is given to biological principles in relation to human culture and civilization. Fee \$1.50 per quarter.
Mr. Dole

101-102 PLANT PHYSIOLOGY. (2-4) *Four hours. F, W*

Experimental study of the growth and functions of the higher plants. Fee \$2.00 per quarter.

Prerequisite: 1-2 or 4-5-6. *Mr. Marvin*

104-105 AGROSTOLOGY. (1-4) *Three hours. F, W*

The grass flower and inflorescence, as exemplified in local grass flora; the economic significance of grasses, cereals, and fodder plants. Identification in the laboratory of living and herbarium material; the systematic treatment and phylogeny of grasses. Fee \$1.50 per quarter.

Prerequisite: 1-2 or 4-5-6. *Mr. Dole*

G107-108-109 PLANT MORPHOLOGY. (1-4) *Three hours. F, W, S*

Plant types representative of each of the larger phylogenetic groups, with special emphasis on the evolutionary development of vegetative and reproductive structures. Life cycles, and an introduction to the phylogenetic system of classification. Quarters may be taken in any sequence. Fee \$1.50 per quarter.

Prerequisite: 1-2, 3 or 4-5-6; 101-102; junior standing.

Messrs. Marvin, Dole, and Taylor

111 MICROTECHNIQUE. (2-4) *Four hours. S*

Field and laboratory preparation of biological materials for microscopic study, including smear and microtome sectioning technique. The use of the microtome, the oil immersion microscope, the accessories used in drawing and in photomicrography. Fee \$4.00.

Prerequisite: 1-2 or 4-5-6; Zoology 1 and either 2 or 3.

Mr. Gersboy and Miss Raynor

G112 ECOLOGY. (2-2)

Three hours. S

The physiological factors of habitats and their effect on plant structure and distribution.

Prerequisite: 1-2 or 4-5-6; 101-102; junior standing.

Mr. Dole

G113 PLANT PATHOLOGY. (2-4)

Four hours. F

An introductory study emphasizing diagnosis, life history, and control of plant diseases caused by fungi, viruses, bacteria, and nematodes. Fee \$2.00.

Prerequisite: 1-2 or 4-5-6 and 101-102; junior standing.

Mr. Sproston

117 GENERAL BACTERIOLOGY. (2-4)

Four hours. S

The principles and technique of growing and studying bacteria and other micro-organisms. Fee \$4.00.

Prerequisite: 1-2 or 4-5-6.

Mr. Sproston

120-121 GENETICS. (1-4)

Three hours. F, W

The basic principles of modern plant and animal breeding; the elementary concepts of variation, inheritance, and cytogenetics. Fee \$4.00 per quarter. 121 is not required of students who take Plant Breeding or Animal Breeding.

Prerequisite: 1-2 or 4-5-6; Zoology 1 and either 2 or 3.

Mr. Gersboy

G122 PLANT ANATOMY AND HISTOLOGY. (1-6)

Four hours. F

A comparative study of the cell wall of plant tissues. The ontogenetic development of the conducting, supporting, and protective tissues of the seed plants is stressed. Fee \$4.00.

Prerequisite: 1-2 or 4-5-6; 111; Chemistry 1-2; junior standing.

Mr. Gersboy

125 ECONOMIC BOTANY... (2-4)

Four hours. F

Plants and their relation to human history and contemporary life. A course of general interest dealing with the botanical and economic aspects of plants used as sources of foods, drugs, fibers, and other products of importance in everyday living. Fee \$2.00.

Prerequisite: 1-2 or 4-5-6.

Mr. Taylor

G128-129 CYTOLOGY. (1-4)

Three hours. F, W

The protoplast of living organisms, especially the protoplasmic activities of cells of the higher groups; the somatic and meiotic divisions, gametogenesis, syngamy, and substitute methods of reproduction; the interrelation of chromosomal and genetic phenomena. Fee \$2.00 per quarter. For graduate students; open to seniors by special permission.

Prerequisite: 111; Chemistry 1-2 and 6.

Mr. Gersboy

G131-132 TAXONOMY AND SYSTEMATIC BOTANY. (1-4)*Three hours. F, W*

The principles of taxonomy as applied to modern seed-plant flora, exemplified in living plants and herbarium material; an historical survey of significant phylogenetic schemes and modern systems of classification; the species concept, variation and discontinuity, speciation. Fee \$1.50 per quarter.

Prerequisite: 1-2, 3 or 4-5-6; 125; junior standing.

*Mr. Dole***151 ELEMENTARY FORESTRY. (3-0)***Three hours. S*

Introduction to the specializations in forestry and conservation.

*Mr. Adams***152-153 WOODLAND MANAGEMENT. (2-3)***Three hours. F, S*

Establishment, protection and management of farm woodlands and small forest areas.

Prerequisite: junior standing.

*Mr. Adams***G154 UTILIZATION OF WOODLAND PRODUCTS. (2-2)***Three hours. W*

Sawmilling, wood products manufacture, maple products, and wood preservation in private and cooperative marketing practices.

Prerequisite: 152.

*Mr. Adams***G155 MENSURATION. (1-4)***Three hours. F*

Timber land survey, timber estimating, log scaling, and growth determination of trees and stands.

Prerequisite: 152-153.

*Mr. Adams***156-157-158 DENDROLOGY. (2-2)***Three hours. F, W, S*

Identification, taxonomy, and silvical characteristics of woody plants of the important forest regions of the United States.

Prerequisite: sophomore standing.

*Mr. Adams***G159-160 SILVICS (3-0)***Three hours. W, S*

Influences of the physiological factors of the site on the physiology and growth of trees.

Prerequisite: Botany 101-102.

*Mr. Adams***170-171-172 SPECIAL STUDY.**

An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.

Prerequisite: junior standing and permission of the department.

The Staff

HORTICULTURE

Associate Professor Blasberg

- 3 VEGETABLE CULTURE. (2-2) *Three hours. S*
The characteristics of some more important crops and their responses to various conditions of environment. Fee \$2.00. *Mr. Blasberg*
- 4 GENERAL HORTICULTURE. (2-4) *Four hours. F*
An introductory course dealing with materials and practices in the field of horticulture. Fee \$2.50. *Mr. Blasberg*
- 7 SMALL FRUIT CULTURE. (2-2) *Three hours. S*
The fundamental principles underlying plant growth and fruit production and the relation of these principles to practice. Fee \$2.00.
- 10 PLANT PROPAGATION. (1-4) *Three hours. S*
The theory and practice of multiplying plants by various methods. Fee \$2.50.
Prerequisite: Botany 1-2 or 4-5-6; sophomore standing.
- 13 TREE FRUITS. (2-4) *Four hours. S*
The principles and facts involved in modern production of tree fruits. Fee \$2.50.
Prerequisite: Botany 1-2 or 4-5-6; sophomore standing. *Mr. Blasberg*
- G100 SYSTEMATIC POMOLOGY. (2-2) *Three hours. F*
Systematic study of the standard fruit varieties: their origin, classification, and identification. Fee \$2.50.
Prerequisite: 13; junior standing. *Mr. Blasberg*
- 150, 151, 152 SPECIAL STUDY.
An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.
Prerequisite: junior standing and permission of the department.
The Staff

POULTRY HUSBANDRY

Associate Professor Henderson

- 2 POULTRY FARM MANAGEMENT. (2-2) *Three hours. W*
Farm layouts and study of successful poultry farms. Inspection trips. Fee \$5.00.

- 5 GENERAL POULTRY HUSBANDRY. (2-2) *Three hours. F*
The principles of poultry husbandry and their application to general farm conditions. Fee \$5.00.

- 8 POULTRY HOUSING. (2-2) *Three hours. F*
The principles and practices of constructing poultry houses and the remodelling of farm buildings into suitable houses for poultry. Fee \$3.00.
Prerequisite: sophomore standing.

- 11 PROCESSING AND PACKAGING POULTRY PRODUCTS. (2-2) *Three hours. F.*
General principles of marketing as they apply to eggs and poultry meat; candling, grading, and packing eggs for market. Preparation of poultry for market. A one-week inspection trip to the Boston market is required. Fee \$25.00.
Prerequisite: junior standing.

- 14-15 POULTRY FEEDING. (2-2) *Three hours. W, S*
Feeding poultry for egg production, growth, and fattening. Practice in compounding rations. Experimental work and feeding problems. Fee \$5.00 per quarter.
Prerequisite: Chemistry 1-2 and 6; junior standing.

- 102 INCUBATION. (2-2) *Three hours. W*
General biology as applied to incubation and the fundamental principles underlying incubation practices. Fee \$5.00.
Prerequisite: 2 or 5; sophomore standing.

- 103 BROODING. (2-6) *Four hours. S*
Theory and practice of brooding chickens and other poultry.
Prerequisite: 2 or 5; sophomore standing.

- 150, 151, 152 SPECIAL STUDY.
An additional course or courses, supplementary to those listed in the department, designed to meet special needs of students. Each course that meets the requirements of the Graduate Council will carry graduate credit.
Prerequisite: junior standing and permission of the department.

HOME ECONOMICS

THE CURRICULA IN HOME ECONOMICS

The purpose of this department is to meet the needs of students interested in the principles and processes involved in home-making, whether with an interest in family life or in training for a profession. The curricula are uniform for all students in the freshman year, and certain courses forming a Home Economics core are required in the subsequent years, for majors in all options. At the beginning of the Sophomore year, the student may choose any one of four options. The courses required for each particular option are planned for the individual student, depending upon her particular interest.

The General Home Economics option supplies a background which will enable students to become more intelligent home-makers. The Home Economics Education option prepares students to teach Home Economics on the secondary level in Vermont and some other states or to become home demonstration or 4-H club agents. The Clothing, Textile and Related Art option is especially designed for students who wish to enter the fields of costume or textile design, interior decoration, merchandising or textile chemistry. The Food and Nutrition option is designed to prepare students for positions as dietitians, both administrative and practising, in hospitals, colleges, industry, or other institutions, as nutrition or food specialists, or for positions as demonstrators, or in commercial food firms.

Every candidate for the degree shall present a total of 196 quarter hours of credit, exclusive of courses required in Physical Education.

As part of the preliminary registration program, a mathematics placement test is required of each student entering the College of Agriculture, to determine whether he should take the non-credit course "Algebra Review" during the first quarter of his freshman year. An English placement test is also given, on the basis of which a few students are excused from "English Composition."

OUTLINE OF HOME ECONOMICS CURRICULA

(Courses required of all students.)

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
QUARTER				QUARTER			
*English Composition	3	3	3	English Lit. or American Lit.	3	3	3
Fundamentals of Speech	3	3	3	Economic Principles	3	3	3
Survey of European History or American Government	3	3	3	Elementary Botany	4	4	...
Outline of Inorganic Chem.	5	5	...	Outline of Organic Chem.	3	3	...
Introduction to Zoology	4	...	...	Food Preparation	4	4	4
Orientation (Gen. Home Ec.) ..	1	1	...	Clothing & Textiles 1 or 3 .....	...	...	3
Physical Education	1	1	1	Clothing & Textiles 2 or 4 .....	...	...	3
Hygiene .....	...	...	...	Physical Education 2	1	1	1
THE JUNIOR YEAR				THE SENIOR YEAR			
F W S				F W S			
General Psychology	3	3	...	Home Nursing .....	...	...	2
Meal Planning, Dietetics	4	4	...	Child Care and Development .....	...	...	4
Housing, Home Equipment	3	3	...	Family Relationships	3	...	...
Interior Decoration .....	...	...	3	Home Management House	4	or 4	or 4
Home Management .....	...	...	3	Senior Orientation .....	...	...	1

To insure reasonable concentration in the student's field of interest, courses to complete the total credit required for graduation are selected with the approval of the student's faculty advisor from those described below or in the Arts College section.

COURSES OF INSTRUCTION

CLOTHING AND TEXTILES

Associate Professor Crumrine; Miss Kelly

- 1 APPLIED DESIGN AND CLOTHING SELECTION. *Three hours. W*
Fundamental art principles as they apply to the individual. Fee \$2.50.
Miss Crumrine
- 2 CLOTHING CONSTRUCTION AND TEXTILES. *Three hours. S*
Construction, identification, cost, and use of textiles as they pertain to the individual, home, and institutions. Fee \$2.50. *Miss Kelly*
- 3 APPLIED DESIGN. *Three hours. F*
The fundamental principles of design and color. The development of an appreciation of beauty in the utilitarian and decorative arts. Fee \$2.50. *Miss Crumrine*

* On the basis of an English placement test a few students are excused from taking this course.

4 TEXTILES.

Three hours. W

Textile fibers, from the raw materials to the finished product; the effect of fiber content, construction, and finish on the cost, quality, and serviceability of the fabric. Fee \$2.50. *Miss Kelly*

5 CLOTHING SELECTION.

Two hours. S

Application of the art principles, line, color, texture, and pattern, as they relate to the individual and to the care, repair, and selection of clothing. *Miss Crumrine*

6 CLOTHING CONSTRUCTION.

Four hours. S

Utilization of principles of design and construction in making garments of cotton, linen, and similar fabrics. Fee \$2.50.

Miss Crumrine

103 CLOTHING CONSTRUCTION.

Four hours. W

Utilization of principles of design and construction in making garments of wool, silk, and synthetic fabrics. Fee \$2.50. *Miss Crumrine*

104 CLOTHING CONSTRUCTION.

Three hours. F

Development of tailoring skills through the construction of a tailored suit or coat. Fee \$2.50. *Miss Kelly*

105 DRAPING AND FLAT PATTERN DESIGN.

Three hours. W

Experience in the basic principles and processes involved in draping original dress designs, and in developing block patterns. Fee \$2.50. *Miss Kelly*

106 HISTORIC COSTUME.

Four hours. W

Costume from pre-historic times to the twentieth century; interrelation of historic costume features with modern fashion modes. Fee \$2.50. (Alternate years, 1946-47.) *Miss Kelly*

108 CLOTHING ECONOMICS.

Three hours. W

Economic and technical factors governing the selection and use of personal and household textiles. Selection of clothing in relation to the economic status of the consumer. (Alternate years, 1945-46.)

Miss Crumrine

111 TEXTILE CHEMISTRY.

Four hours. S

The physical and chemical analysis and structure of the raw materials used in fabrics. Fee \$2.50. (Alternate years, 1946-47.) *Miss Kelly*

150, 151, 152 SPECIAL PROBLEMS.

Three years. F, W, S

Individual investigation of theoretical and practical problems in the field. Elective (C. & T.) seniors.

FAMILY LIVING

Dr. Russell, Mrs. Stokes, and Mrs. Kirkness

- 1 HOME NURSING. Two hours. S
 The care of the family during illness. Required of all seniors.
Mrs. Stokes
- 101 CHILD CARE AND DEVELOPMENT. Four hours. S
 The care of the child from pre-natal life through infancy and childhood. The mental, emotional, and social development of the child and methods of guiding this development; opportunity for observation and participation with children of pre-school age. Required of all seniors.
Dr. Russell
- 103 FAMILY RELATIONSHIPS. Three hours. F
 The origin and development, structure and functioning of the family in relation to present-day home and social problems. Required of all seniors.
Dr. Russell

FOOD AND NUTRITION

Professor King; Assistant Professors Bailey and Knowles

- 51-52-53 FOOD PREPARATION. Three, three, four hours. F, W, S
 The scientific principles and fundamental processes underlying food preparation and preservation, with practical applications. Fee \$3.50 per quarter. Required of all sophomores. *Misses King, Knowles, and Bailey*
- 54 FOOD ECONOMICS. Three hours. S
 The recent trends in food processing, and consumer buying problems. Fee \$3.00.
Miss King
- 101 MEAL PLANNING AND SERVICE. Four hours. F
 The principles involved in planning, preparing, and serving meals, with practice. Fee \$5.00. Required of all juniors.
Miss Bailey
- 103 DIETETICS. Four hours. W
 The food requirements of children and adults; the nutrients in foods; application to the selection of diets at different cost levels. Fee \$3.00. Required of all juniors.
Miss Bailey
- 104 NUTRITION. Four hours. S
 The principles of normal nutrition.
Miss Bailey

- 105 DIET IN DISEASE. *Four hours. W*
The dietetic treatment of impaired digestive and metabolic conditions.
Fee \$3.00. *Miss Bailey*
- 106 DEMONSTRATION TECHNIQUES. *Three hours. S*
Analysis, evaluation, and practice of demonstration techniques for presenting information in the fields of food, nutrition, and household equipment. Fee \$3.00. *Miss Knowles*
- 108 READINGS IN NUTRITION. *Three hours. S*
A critical survey of the literature on recent developments in nutrition. *Miss Bailey*
- 110 EXPERIMENTAL FOOD PREPARATION. *Four hours. W*
Methods and techniques used in experimental work in foods. Independent laboratory study of problems in food preparation. Fee \$5.00. *Miss King*
- 150, 151, 152 SPECIAL PROBLEMS. *Three hours. F, W, S*
Individual investigations of the theoretical and practical problems in the field.

GENERAL HOME ECONOMICS

Professor King

- 1 ORIENTATION TO COLLEGE. *One hour. F*
The problems of adjustment to college life. Required of all freshmen in Home Economics.
- 2 ORIENTATION TO HOME ECONOMICS. *One hour. W*
Survey and evaluation of professional opportunities in the field. Required of all freshmen in Home Economics.
- 101 ORIENTATION FOR SENIOR WOMEN. *One hour. S*
Problems of adjustment to life after college. Required of all seniors in Home Economics.

HOUSING

Associate Professor Crumrine; Assistant Professor Knowles

- 51 EQUIPMENT. *Three hours. W*
The selection, use, and care of household equipment. Fee \$2.50. Required of all juniors. *Miss Knowles*

52 HOUSING.

Three hours. F

The selection and maintenance of adequate housing facilities to meet family requirements. Required of all juniors. *Miss Knowles*

101 INTERIOR DECORATION.

Three hours. S

Application of principles of design to furnishing the home. Fee \$2.50. Required of all juniors. *Miss Crumrine*

102 HISTORY OF FURNITURE.

Three hours. W

A study of furniture emphasizing the more important periods and the effect on contemporary tenors. *Miss Crumrine*

104 RELATED ARTS.

Three hours. S

Study and execution of the fundamental art principles as they pertain to the individual, home, and community development. Fee \$2.50. *Miss Crumrine*

HOME ECONOMICS EDUCATION

Miss M. Brown

101 HOME ECONOMICS TEACHING.

Six hours. W

Modern educational principles and methods applied to the teaching in junior and senior high schools. Required (Ed.) seniors.

102 STUDENT TEACHING.

Eight hours. W

Observation and student teaching in junior and senior high schools. Fee \$10.00 (returnable under certain conditions). Required (Ed.) seniors.

103 SUBJECT-MATTER PROBLEMS.

Two hours. W

Individual investigation and report on subject-matter problems. Required (Ed.) seniors.

150, 151, 152 SPECIAL PROBLEMS.

Two hours. F, W, S

Individual investigations and report on specific problems in Home Economics Education.

HOME MANAGEMENT

Assistant Professor Knowles

101 HOME MANAGEMENT.

Three hours. S

The human and material resources of the home and their manipulation for meeting family requirements. Required of all juniors.

- 102, 103, 104 HOME MANAGEMENT HOUSE. *Four hours. F, W, S*
Practical application of home making and group living in seven weeks' residence in the Home Management House. Fee \$56.00. Required of all seniors.

INSTITUTION MANAGEMENT

Associate Professor Godfrey

- 101 QUANTITY COOKERY. *Three hours. S*
Practical application of the principles, methods, and techniques used in large quantity food preparation.
- 102 MARKETING AND PURCHASING. *Three hours. W*
Food purchasing for institutions and study of materials; fabrication, construction, and installations of institution equipment.
- 103 INSTITUTION ADMINISTRATION. *Three hours. W*
The organization and personnel management of various types of institutions.
- 104 FOOD COST CONTROL. *Three hours. S*
The fundamental principles of accounting and a study of adequate systems of food control for various types of food service.
- 150, 151, 152 SPECIAL PROBLEMS. *Three hours. S*
Individual investigation of theoretical and practical problems in the field. Elective to seniors.

The School of Education and Nursing

The School of Education and Nursing includes the following curricula: Elementary Education, Junior High School Education, Music Education, Basic Nursing, Graduate Nursing Education, Secondary Education, and Industrial Education. Each curriculum includes as much general education as is compatible with its professional objectives.

Physical Education is required of all freshman and sophomore students. Freshman women are required to complete a course in Hygiene. Freshman and sophomore men are required to complete the basic courses in Military Science.

The professional objectives are indicated by the names of the curricula. The professional courses which are included are based upon the general

courses and are planned to provide the background and skills essential to professional efficiency.

The ideals of personal growth and social service are kept in view as the chief objectives.

THE EDUCATION CURRICULA

THE SECONDARY EDUCATION CURRICULUM

This four-year curriculum is designed for the preparation of teachers in the junior and senior high schools, and leads to the degree of Bachelor of Science in Education. Students who plan to enter the profession of teaching should consult the Director of the School of Education and Nursing as early as possible with reference to the selection of courses.

Students in some curricula in other colleges may transfer to this curriculum, with the approval of the Director and of the Dean of the College in which they are enrolled.

The following outline gives a typical distribution of courses normally required of candidates for the above degree.

THE FRESHMAN YEAR				THE SOPHOMORE YEAR			
F W S				F W S			
QUARTER				QUARTER			
English Composition	3	3	3	Sophomore English	3	3	3
Foreign Language	3	3	3	Foreign Language	3	3	3
History or Political Science.....	3	3	3	General Psychology	3	3	...
Laboratory Science	4	4	4	Gen. Psych. or Adol. Psych.....	...	...	3
Approved Elective	3	3	3	Approved Electives	6	6	6
Physical Education	1	1	1	Physical Education	1	1	1
Military Science (Men)	2	2	2	Military Science (Men)	2	2	2
THE JUNIOR YEAR				THE SENIOR YEAR			
F W S				F W S			
QUARTER				QUARTER			
Prin. & Phil. of Education	3	3	3	Sec. Meth. and Stud. Tchg.....	3	3	3
History of Education	3	...	...	English Elective	3	3	3
High School Admin. or .....	...	...	...	Approved Electives	9	9	9
Education Elective .....	...	3	3				
English Elective	3	3	3				
Approved Electives	6	6	6				

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

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

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

THE MUSIC EDUCATION CURRICULUM

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

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

THE FRESHMAN YEAR

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

THE JUNIOR YEAR

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

THE SOPHOMORE YEAR

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

THE SENIOR YEAR

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

THE ELEMENTARY EDUCATION CURRICULUM

This curriculum is offered by the University in cooperation with the Vermont State Board of Education. It is intended to offer an excellent preparation for teaching in the elementary schools. The degree of Bachelor of Education is given by the University of Vermont and State Agricultural College on recommendation of the Director of the School of Education and Nursing and the University Senate.

Students of good moral character who have been graduated from an approved high school and who satisfy the entrance requirements specified by the State Board of Education are eligible for admission if recommended by the school principal.

A student who has satisfactorily completed one year of elementary teacher preparation in this State or the first year in a standard normal school or its full equivalent, may be admitted to sophomore standing, provided the entrance requirements have been met and a satisfactory record presented.

Graduates of the former two-year curriculum, if found qualified, may be admitted to the Elementary Education curriculum in Junior standing. Such students will be given a special enrollment supplementing the courses accepted for advanced credit and will be eligible to receive the degree of Bachelor of Education after satisfactory completion of two years of resident work.

The curriculum in Elementary Education may be modified for students who wish a more highly specialized preparation in other approved fields of study. The free electives included in the outlined curriculum usually provide for the supplementary majors desired.

Students who are unable to spend four consecutive years in preparation for teaching may meet the present minimum for teaching certificates in the elementary schools of Vermont by completing two years of study in this curriculum. In such cases a special two-year enrollment is required and the sequences must be carefully planned in consultation with the Director of the School of Education and Nursing.

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. A transcript of record must

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 recommenda-

tion 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 70 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 Director of the School of Education and Nursing. Thirty-six semester hours of credit, chosen under the guidance of the Director will be required to complete the curriculum in Elementary Education.

TRANSFER OF NORMAL SCHOOL STUDENTS TO THE CURRICULUM IN SECONDARY EDUCATION

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

the State Department of Education, and the passing of special examinations in English and Mathematics.

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

TUITION

FOR VERMONT STUDENTS

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

FOR STUDENTS FROM OTHER STATES

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

FOR STUDENTS WHO DO NOT PLAN TO TEACH IN VERMONT

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

OUTLINE OF A TYPICAL ENROLLMENT IN THE ELEMENTARY EDUCATION CURRICULUM

THE FRESHMAN YEAR	F	W	S	THE SOPHOMORE YEAR	F	W	S
	QUARTER				QUARTER		
English Composition	3	3	3	Sophomore English	3	3	3
Introduction to Education	3	3	3	Teaching English	3	3	3
Economic Geography	3	3	3	Music Fundamentals	3	3	3
Handwriting	1	1	1	General Psychology	3	3	3
Art Education	2	2	2	Science	4	4	4
Elective (American				Mental Hygiene or Arts &			
Government, Music				Crafts or Elective	3	3	3
Appreciation, Science, or				Physical Education	1	1	1
others approved)	3	3	3	Military Science (Men)	2	2	2
Physical Education	1	1	1				
Hygiene .....	...	...	...	
Military Science (Men)	2	2	2				

THE JUNIOR YEAR

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

THE SENIOR YEAR

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

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

THE JUNIOR HIGH SCHOOL CURRICULUM

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

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

The degree Bachelor of Science in Education is awarded by the University of Vermont and State Agricultural College on recommendation of the Director of the School of Education and Nursing and the University Senate.

OUTLINE OF A TYPICAL ENROLLMENT IN THE JUNIOR HIGH SCHOOL CURRICULUM

THE FRESHMAN YEAR

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

THE SOPHOMORE YEAR

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

THE JUNIOR YEAR

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

THE SENIOR YEAR

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

THE NURSING CURRICULUM

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

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

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

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

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

Following is an outline of the course of study:

FIRST YEAR

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

* Mathematics or language recommended.

SECOND YEAR

F W S

QUARTER

2ND SUMMER QUARTER

English	3	3	3	Introduction to Medical Science,	
General Psychology	3	3	3	Bacteriology, and Clinical	
Physics	5	5	...	Pathology	6
Physiology	3	...	...	Pharmacology	3
Chemistry of Foods, Diet.....	...	...	3	Professional Ethics	1
Electives to complete schedule ..	...	...	...	Advanced Nursing Arts	6

THIRD YEAR

Gynecology
Materia Medica
Dietotherapy
Sociology
Medical and Surgical Nursing

FOURTH YEAR

Obstetrics
Pediatrics
Psychiatry
Sanitation
Communicable Diseases

FIFTH YEAR

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

PROGRAMS FOR GRADUATE NURSES

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

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

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

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

THE INDUSTRIAL EDUCATION CURRICULUM

The curriculum in industrial education, leading to the degree of Bachelor of Science in Education, is designed for those students who wish to prepare to teach Industrial Arts in junior and senior high schools.

To give general education and to serve as a basis for the study and teaching of industrial education, it provides courses in English, mathematics, psychology, science, and social science. General courses in education, as well as special courses in the teaching of industrial arts and trade and in industrial education, are included. Required courses in mechanical drawing, woodworking, electric shop, automobile shop, and machine shop provide the knowledge and skill essential to the teacher of these subjects. By electing courses in mathematics, science, or social science the student can gain command of a second subject, in which he may qualify for teaching.

Those who enroll in this curriculum are required to gain ten or more weeks of work experience in industry, previously approved, during the summer vacations preceding the senior year.

The following outline gives a typical distribution of courses in this curriculum.

THE FRESHMAN YEAR

	F	W	S
	QUARTER		
English Composition	3	3	3
Mathematics 1, 2, 3 <i>or</i>	3	3	3
11, 12, 13	5	4	5
Education Survey	1	1	1
Mechanical Drawing	3	3	3
Woodworking Shop	3	3	3
Military Science	2	2	2
Physical Education	1	1	1

THE SOPHOMORE YEAR

	F	W	S
	QUARTER		
Sophomore English	3	3	3
Industrial Education 1, 2, 3.....	3	3	3
General Psychology	3	3	3
General Physics	3	3	3
Electric Shop	3	3	3
Military Science	3	3	3
Physical Education	1	1	1

THE JUNIOR YEAR

	F	W	S
	QUARTER		
Principles of Economics	3	3	3
Educational Measurements	3	3	...
Adolescent Psychology .....	...	...	3
Industrial Education 4, 5, 6.....	3	3	3
General Chemistry	5	5	5
Automobile Shop	3	3	3

THE SENIOR YEAR

	F	W	S
	QUARTER		
Prin. and Proc. in Sec. Ed.....	3	3	3
Industrial Management	3	3	...
Personnel Management .....	...	...	3
Machine Shop	3	3	3
Approved Electives	7	7	7

EDUCATION

Professor Douglass; Associate Professor Reuter; Assistant Professors Adams, Pappoutsakis, Sullivan; Mrs. Mills, Miss Madigan, Mr. Patterson

*SECONDARY EDUCATION

1 PRINCIPLES OF EDUCATION.

Three hours. F

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

Prerequisite: junior standing; Psychology 1-2.

Mrs. Adams

2 HISTORY OF EDUCATION.

Three hours. F

The historical development of educational theory and practice as influenced by the foremost educational theorists and by the most significant social movements.

Prerequisite: junior standing; Psychology 1-2.

Mr. Douglas

7-8 EDUCATIONAL PSYCHOLOGY.

Three hours. F, W

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

Prerequisite: junior standing; Psychology 1-2.

Mr. Reuter

9 PSYCHOLOGY OF ADOLESCENCE.

Three hours. S

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

Prerequisite: sophomore standing; Psychology 1-2.

Mr. Reuter

G101-102 PHILOSOPHY OF EDUCATION.

Three hours. W, S

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

Prerequisite: one course; junior standing.

Mr. Douglas

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

103-104 HIGH SCHOOL ADMINISTRATION. *Three hours. W, S*

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

Prerequisite: junior standing.

Mr. Douglass

G107-108-109 PRINCIPLES AND PROCEDURES. *Three hours. F, W, S*

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

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

Messrs. Douglass, Reuter, and Pearl

G110-111 EDUCATIONAL MEASUREMENTS. *Three hours. F, W*

A practical introductory course of the essential principles of measurement in education. Topics include statistics applied to education; improvement of teacher-made measures of achievement; construction of objective tests and inventories; analysis of standard tests. Fee \$1.00 per quarter.

Prerequisite: Psychology 1-2; junior standing.

Mr. Reuter

G115 SCHOOL ADMINISTRATION. *Three hours. S*

A study of state, county, and local school administration and supervision conducted as a research seminar. (Omitted 1946-47.)

Prerequisite: one course; senior standing.

116 SCHOOL AND CLASS MANAGEMENT. (Omitted 1946-47)

G125 TEACHING SOCIAL STUDIES. *Three hours. W*

Special methods in the field of social studies; aims and objectives; motivation; individual differences; selection of teaching material and visual aids.

Prerequisite: 107; Psychology 1-2; 18 hours in social studies. *Mr. Reuter*

G127 TEACHING SCIENCE. *Three hours. S*

A broad view of modern teaching philosophy and how it may be applied in teaching science through methods proved by experience to be workable and effective.

Prerequisite: 108; Psychology 1-2; 18 hours in science. *Mr. Reuter*

G151-152 TEACHING LATIN. *Three hours. W, S*

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

Prerequisite: Latin 103.

Mr. Kidder

G157 TEACHING MODERN LANGUAGES. *Three hours. F*

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

Prerequisite: junior standing; concentration in modern language.

Mr. Carpenter

G191, 192, 193 EDUCATIONAL SEMINAR. *Three hours. F, W, S*

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

Prerequisite: graduate standing.

Messrs. Douglass and Reuter

***ELEMENTARY EDUCATION**

1-2-3 INTRODUCTION TO EDUCATION. *Three hours. F, W, S*

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

Mrs. Adams

4-5-6 ART EDUCATION I. *Two hours. F, W, S*

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

Mrs. Mills

For ARTS AND CRAFTS see Art 11-12-13.

10-11-12 SCHOOL MUSIC I. *Three hours. F, W, S*

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

Mr. Pappoutsakis

13-14-15 SCHOOL MUSIC II. *Two hours. F, W, S*

Basic principles in elementary school music teaching.

Prerequisite: School Music 1.

Mr. Pappoutsakis

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

30 TEACHING ARITHMETIC.

Three hours. S

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

Mrs. Adams

32-33 TEACHING READING.

Three hours. F, W

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

Mrs. Adams

34-35-36 TEACHING ENGLISH.

Three hours. F, W, S

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

Miss Sullivan

37-38-39 TEACHING HANDWRITING.

One hour. F, W, S

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

Miss Madigan

40-41-42 TEACHING SOCIAL STUDIES AND SCIENCE.

Three hours. F, W, S

Subject matter and procedures applicable to the teaching of social studies including geography, history, and topics of current importance; the teaching of elementary science; the integration of social science and elementary science with other subjects of the elementary school; observation in the demonstration schools.

Mrs. Adams

43-44-45 OBSERVATION AND CONFERENCE.

Two hours. F, W, S

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

Miss Sullivan

46-47-48 ELEMENTARY CURRICULUM AND STUDENT TEACHING.

*(For Two and Three Year Students)**Six hours. F, W, S*

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

Miss Sullivan

- 101 **TEACHING ART**. *Three hours. F*
 Purposes, methods, and problems of modern art education are studied and discussed. Students explore the possibilities of various media and processes. *Mrs. Mills*

- 104-105-106 **ELEMENTARY CURRICULUM AND STUDENT TEACHING**. *Six hours. F, W, S*
 (For Seniors)

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

Miss Sullivan and Staff

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

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

Miss Cummings

- 115-116 **HEALTH EDUCATION**. *Two hours. W, S*

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

Miss Scholl

* **JUNIOR HIGH SCHOOL EDUCATION**

- 1 **JUNIOR HIGH SCHOOL MATHEMATICS**. *Three hours. S*

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

Prerequisite: Mathematics 1, 2.

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

3-4-5 EDUCATION SURVEY.*One hour. F, W, S*

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

50-51 GUIDANCE.*Three hours. W, S*

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

Prerequisite: Education 1.

60-61-62 TEACHING JUNIOR HIGH SCHOOL SUBJECTS.*Three hours. F, W, S*

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

Prerequisite: Psychology 1-2; Adolescent Psychology.

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

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

Prerequisite: Psychology 1-2; Adolescent Psychology.

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

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

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

The integration of the various subjects in the junior high school education curriculum on the operative level through directed experience;

the development of teaching competence and efficient school and class control, leading to individual and group self-discipline and good citizenship on the part of pupils; experience in discharging the responsibilities of the teacher to the school and the community; instructional planning; observation, participation, and directed teaching leading to responsible student teaching.

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

112 VERMONT HISTORY.

Three hours. S

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

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

* INDUSTRIAL EDUCATION

Mr. Patterson

1 PRINCIPLES OF VOCATIONAL EDUCATION.

Three hours. F

The history, principles, and problems, including early apprenticeship system, state and federal legislation and aid, and modern trends in industrial education.

2 METHODS IN VOCATIONAL EDUCATION.

Three hours. W

The basic methods of industrial education; an integration of general and special methods of instruction effective in industrial education.

3 TRADE AND OCCUPATIONAL ANALYSIS.

Three hours. S

The procedures used in analyzing a trade or occupation for determining the instructional content and arrangement of trade content into courses of instruction.

4 DEVELOPMENT OF INSTRUCTIONAL MATERIAL.

Three hours. F

Factors underlying appropriate selection and preparation of material, the material available from various industrial companies, and the development of plants for effective presentation.

5 TEACHING INDUSTRIAL ARTS.

Three hours. W

Making the necessary connections between the more general courses in education and the specific teaching of industrial arts, based upon psychological aspects of learning as applied to shop and related subjects, lesson plans, textbooks, notes, demonstration, conference, testing, and audio-visual aids.

* For the curriculum in Industrial Education see the Index.

6 TEACHING RELATED SUBJECTS.

Three hours. S

Selection or planning of practical problems in science, mathematics, and drawing related to trades commonly taught in vocational schools, approached through application rather than principles.

30-31-32 SHOP (WOODWORKING). (0-9)

Three hours. F, W, S

Designed to give familiarity with the different types of material, experience in the use of machinery and hand tools while producing various practical articles of craftsmanship.

33-34-35 SHOP (ELECTRIC). (0-9)

Three hours. F, W, S

Designed to aid the prospective teacher to understand the construction of pieces of electrical equipment and regular house wiring.

36-37-38 SHOP (AUTOMOBILE). (0-9)

Three hours. F, W, S

Practical work on the repair and maintenance of automobiles and internal combustion engines. Laboratory and conference periods according to the needs of the student.

39-40-41 SHOP (MACHINE). (0-9)

Three hours. F, W, S

Machine practice, operating standard machine tools, producing various machines and small tools to be used later as projects in courses in the schools.

NURSING

Associate Professor Crabbe; Miss Morneault, Miss Scholl, and Mrs. Stokes

1 ELEMENTARY NURSING ARTS.

Six hours. S

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

Mrs. Stokes

2 INTERMEDIATE NURSING ARTS.

Six hours. Su

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

Prerequisite: 1.

Mrs. Stokes

3 ADVANCED NURSING ARTS.*Three hours. F*

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

Prerequisite: 2.

Mrs. Stokes

10 PHARMACOLOGY I.*Three hours. Su*

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

Miss Crabbe

11 PHARMACOLOGY II.*Three hours. Su*

Drugs and the conditions for which they are commonly used.

Miss Crabbe

12 NURSING ORIENTATION.*Three hours. Su*

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

Miss Crabbe

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

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

Miss Morneault and Dr. King

20-21 ANATOMY.*Six hours. Su, F*

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

Miss Morneault and Dr. Newhall

101 COMPARATIVE NURSING PRACTICE.*Three hours. W*

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

Mrs. Stokes

104-105 TEACHING NURSING ARTS.*Six hours. S, Su*

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

Mrs. Stokes

110-111 THE CURRICULUM IN NURSING.

Six hours. F, S

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

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

Miss Crabbe

113 WARD MANAGEMENT.

Three hours. F

Principles of organization and administration in the head nurse unit; planning and evaluating nursing care.

Prerequisite: graduation from accredited school of nursing or standing in fifth year of collegiate program.

114 WARD TEACHING.

Three hours. F

Organizing and developing a ward instructional program for students of nursing.

Prerequisite: graduation from accredited school of nursing or standing in fifth year of collegiate program.

Miss Crabbe

116 SOCIAL AND HEALTH ASPECTS OF NURSING.

Three hours. F

The major social and health problems; understanding the patient as a person, with emphasis on teaching the maintenance of health; relation of care in the hospital to home and community situations.

Prerequisite: graduation from accredited school of nursing or standing in fifth year of collegiate program.

Miss Scholl

The College of Medicine

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

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

REQUIREMENTS FOR ADMISSION

The minimum requirements for admission to the College of Medicine are three years of college work done in an institution listed among the "Approved Colleges of Arts and Sciences," compiled and published by the Council on Medical Education and Hospitals of the American Medical Association. The College of Medicine requires one year each of English, General Chemistry, Organic Chemistry, Physics, and Biology, but recommends other courses in English, at least one year of Mathematics, and work of such grade in a foreign language that the student will have conversational use and reading knowledge of the language. These should be regarded by the student as minimum basic requirements. Additional broad and well-planned courses of study should include work in the fields of History, Economics, Sociology, Psychology, Philosophy, Music, and the arts.

The Admissions Committee expects applicants to have completed a program equivalent to that outlined but reserves the privilege, at its discretion, to give favorable consideration to applicants with three years of college work of a different type, provided it includes acceptable credits in the required courses.

Eligibility for admission to the College of Medicine of an applicant, who has fulfilled the entrance requirements as stated, is determined by the Admissions Committee of the College of Medicine on the basis of the following:

1. Personality and general fitness of the applicant for the study and practice of medicine. This is determined by recommendations and especially by personal interview with the Admissions Committee. Dates for these interviews are announced by the Committee.
2. The scholastic record of the applicant in his premedical work, as well as the score earned in the Aptitude Test adopted by the Association of American Medical Colleges or the score in the Graduate Record Examination.

Because of limited teaching facilities, a maximum of forty students is admitted to the entering class. In the selection of eligible applicants for admission, the following preferences are, in general, observed by the Admissions Committee.

First preference is given to residents of the State of Vermont. Second preference is given to sons and daughters of alumni. Third preference is given to residents of the northeast New England area outside of the State of Vermont, and to graduates of land-grant colleges in New England.

Individuals selected by the Admissions Committee as eligible for admission, will be given personal interviews. The Dean's Office will notify such applicants of the appointments for interviews.

Application blanks may be secured from the Dean's Office, College of Medicine, University of Vermont, Burlington, Vermont. An application fee of ten dollars, payable to the University of Vermont and State Agricultural College, must accompany all applications.

OUTLINE OF THE FOUR-YEAR CURRICULUM

The basic plan of the curriculum centers about clinical teaching. Effort is made to correlate instruction in every year with clinical medicine. By using the clinical approach in laboratory and classroom early in his career, the student is brought into contact with the patient.

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.

In the First Year, the usual courses in Anatomy, Physiology, Biochemistry, Histology, Embryology, Neuro-anatomy and Bacteriology are given.

In addition, short orientation courses in Psychiatry, Chemistry, and the use of the Library are given in the first semester of the first year. These courses have a twofold purpose. They are primarily designed to maintain continuity between premedical school work and that given in medical school. Secondarily, through these courses the student learns the need for and the proper use of certain important tools in the field of medicine.

The introductory course in Psychiatry emphasizes the basic principles of Psychology. It discusses the emotional response of the individual to his environment. It helps the student early in his medical career to recognize

and establish causal relationship between psychological factors in the patient's life and disease manifestations.

The short course in Chemistry focusses the attention of the student on that subject as a science related in a practical manner to the processes of growth and development, health and sickness, life and death. It emphasizes the basic importance of his already acquired knowledge of Chemistry and the practical use of it in the qualitative and quantitative aspects of vital phenomena.

The course of instruction in the use of the library and its facilities aims to make the student aware of the library, the important part it plays in all medical work and the necessity to understand its proper use. The course includes lectures on library organization, administration and services. These are given by members of the library department. Practical exercises in the library are given by faculty members to students so they may become familiar with medical literature, its sources and the proper techniques employed in bibliography.

In the Second Year courses are given in Pharmacology, Pathology and Public Health. Anatomy, Physiology and Psychiatry are continued in this year. Courses in Medicine, Surgery, Obstetrics, Pediatrics and Physical Diagnosis are also given. As part of the plan to integrate the student's work in all courses, a two-hour correlation conference is held each week during the second semester. This conference is designed to emphasize inter-departmental relationships. Selected cases are presented and all department members take part in the presentation and discussion.

The work of the Third Year includes continued work in Medicine, Surgery, Obstetrics, Pediatrics, and Pathology. The third year course in Pathology is a continuation of the general course in the second year. Surgical Pathology is also included in the work of this year. Radiology and Physical Medicine are taught throughout the year. The students are also given work in Eye, Ear, Nose and Throat, with clinic and ward instruction.

The course in Physical Diagnosis is continued in the third year. Students are assigned in small sections to the hospital wards, where they take histories and do physical examinations under supervision. This work includes case presentation. In addition, each student is given one month of intensive instruction in physical diagnosis at the Vermont State Hospital, Waterbury, and the Brandon State School. At these institutions the student has opportunity to study a great variety of physical conditions seldom seen in such profusion in the general hospital or clinic. The weekly correlation conferences of the second year are continued throughout the third year. In this year, the conference serves the important role of keeping the basic sciences integrated with clinical teaching. Members of

all departments take part in the presentations, and all discussions include material from the laboratory and classroom work of the first two years.

The work of the Fourth Year is given on a twelve-month basis. Upon the completion of the work of the third year, the students begin clinical work in the teaching hospitals in rotation. The services are so arranged that sections of one to five students can be assigned to hospitals for periods of one month, allowing each student to have one month of vacation during the year. Such services include Medicine, Surgery, Obstetrics, Surgical specialties, and general services. These services are given at the Mary Fletcher Hospital, the Bishop DeGoesbriand Hospital, the Fanny Allen Hospital, the Burlington Dispensary with the City Service under the City Physician.

Rotating services of a month each are given at the Worcester City Hospital where clinical work in Urology, Dermatology, and Neurology is given; at the Belmont Hospital in Worcester, Massachusetts, where instruction is given in contagious diseases; at the Vermont State Hospital for Mental Diseases at Waterbury, where clinical work in Psychiatry and Psychosomatic Medicine is given; at the Vermont Sanatorium in Pittsford, where clinical work in Tuberculosis is given, and at the Springfield, St. Albans, and Brightlook (St. Johnsbury) Hospitals, where individuals in the sections are given a month of general service in residence.

During the year students attend autopsies under the instruction of the Department of Pathology. Students are given opportunity to follow these cases through with study of the gross specimens and microscopic sections.

All fourth-year students attend ward rounds, grand ward rounds, inter-departmental diagnostic conferences and the clinical-pathological conferences. In this manner the student not only receives clinical instruction, but he is constantly kept in touch with the basic work of his first two years in the College of Medicine.

CLINICAL FACILITIES

The normal capacity of the general hospitals in Burlington used by the Medical College is 430 beds. More than 200 additional beds will become available from hospital additions already under construction or planned for the immediate future. At least four hundred of these beds will be 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 as well as general services at the Springfield, St. Albans and Brightlook (St. Johnsbury) Hospitals, increase the amount and variety of clinical material.

Other clinical facilities available for student teaching are the out-patient and dispensary services in Burlington, with over 20,000 patients a year; the services of the Vermont State Hospital for Mental Disease at Waterbury, Vermont, with more than 1,100 beds; the Vermont Sanatorium for tuberculosis and the Caverly Preventorium at Pittsford, 85 and 48 beds respectively; the Brandon State School for the feeble-minded, and 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 is about three hundred. Admissions to the medical, surgical, obstetrical, and specialty services used for teaching purposes approximate 12,000 annually exclusive of the special facilities just described. This amount of clinical material is adequate for the limited enrollment of forty students in each of the two classes doing clinical work.

The Departments of Physical Education

PHYSICAL EDUCATION FOR MEN

Assistant Professors Post, Evans, and Gardner; Messrs. Maynard and Strassburg

This department aims to train the men students of the University to be healthy, physically, and morally fit members of society. It is a required course for all academic Freshmen and Sophomores. Every new student is given a thorough Physical Examination. Men who have physical or health defects are given restricted work, with stress on corrective exercises. Follow-up examinations are given as need is indicated.

A chapter of Sigma Delta Psi, Honorary National Athletic Society, is maintained. Any student is eligible for membership provided he can meet the performance standards in both athletics and scholarship.

COURSES OF INSTRUCTION

1-2-3 PHYSICAL EDUCATION (basic).

One hour. F, W, S

Training in posture, marching, calisthenics, and body-building exercises, the fundamentals and skills of various sports and physical activities, planned to develop and improve skill, coordination, and endurance, to establish regular habits of exercise, and to inculcate intelligent attitudes toward and interest in athletic activities.

Supplemental to this course are the required Personal Hygiene lectures, giving the student an understanding and appreciation of the factors necessary for health and healthful living.

Required academic freshman men.

4-5-6 PHYSICAL EDUCATION (Intermediate). *One hour.* F, W, S

This course is based on a seasonal sports program.

Fall—Football, touch football, cross-country, obstacle course running, and calisthenics.

Winter—Basketball, indoor track, boxing, wrestling, apparatus and tumbling, handball, swimming, skiing, and calisthenics.

Spring—Baseball, track, softball, tennis, handball, obstacle course running, and calisthenics.

Two hours. Required academic sophomore men.

7-8-9 ADMINISTRATION AND FOOTBALL COACHING.

(Not offered 1947-48.)

10-11-12 HUMAN MECHANICS AND COACHING OF BASKETBALL, BASEBALL, AND TRACK.

(Not offered 1947-48.)

INTRAMURAL ATHLETICS

This program, administered by the Department of Physical Education for Men and directed by Professor Post, enjoys a heavy voluntary participation by the students. Competitions are between classes, fraternities, and individuals. An Intramural Council aids the director in determining program content and policy. Contest winners receive suitable awards. The contests include:

Fall—Touch football, tennis.

Winter—Basketball, skiing, wrestling, handball, badminton, basketball free throw, indoor relays, track, hockey and bowling.

Spring—Softball, horseshoe pitching, hexathlon.

Interfraternity athletic competition carries points for the Traynor Trophy, all-year all-round fraternity championship award, for both winner and runner-up.

PHYSICAL EDUCATION FOR WOMEN

Professor Eleanor S. Cummings; Miss Hoffman, Miss Euler; Drs. Harwood and Kingsbury

At the opening of college a health examination is required of all entering students. On the basis of this examination, the student receives advice concerning the correction of health defects, and direction as to her physical education program. For all students taking the required course, the examination is supplemented by periodic health conferences.

The courses and training of the Department are given at the Women's Gymnasium in the Southwick Building. 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 and requires written permission from parents.

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.

Spring—Camp Craft, Softball, Archery, Tennis, Hockey, 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.

1-2-3 FRESHMAN PHYSICAL EDUCATION.	One hour. F, W, S
4-5-6 SOPHOMORE PHYSICAL EDUCATION.	One hour. F, W, S
7-8-9 HYGIENE.	F, W, S

The Department of Military Science and Tactics

Colonel JAY E. GILLFILLAN, INFANTRY, U. S. ARMY

Professor of Military Science and Tactics

Major WILLIAM O. WITHERSPOON, INFANTRY, U. S. ARMY

Assistant Professor of Military Science and Tactics

Master Sergeant JOHN B. COLLINS, AGD, U. S. ARMY

Master Sergeant EMIL ZYCHOWSKI, COAST ARTILLERY, U. S. ARMY

First Sergeant HARRY J. BANAN, COAST ARTILLERY, U. S. ARMY

First Sergeant CHESTER F. SENTENEY, INFANTRY, U. S. ARMY

Staff Sergeant ANDREW J. LANDA, INFANTRY, U. S. ARMY

Instructors in Military Science and Tactics

A senior unit ROTC, organized under the provisions of the National Defense Act of 1916 and amendments thereto, aims to prepare students for a commission in the Organized Reserve Corps in the arm or service selected. Two elementary and two advanced courses are offered.

THE ELEMENTARY COURSE

A two-year course is required of all male students except those who have earned credit through service in the Armed Forces, computed as follows: for service of less than six months, no credit; for service of less than one year, credit for the first year only; for service of one year and over, credit for both years.

The class meets at least three periods each week, with a minimum of 96 hours in each academic year. The distinctive University of Vermont uniform is issued to each student, to be worn only on prescribed occasions. A service charge of six dollars is required to cover maintenance of the uniform.

1-2-3 FRESHMAN ELEMENTARY.

Two hours. F, W, S

The world military situation; military organization; hygiene and first aid; leadership, drill, and exercise of command; individual weapons and marksmanship; maps and aerial photographs; the National Defense Act and ROTC.

4-5-6 SOPHOMORE ELEMENTARY.

Two hours. F, W, S

The world military situation; leadership, drill, and exercise of command; physical development methods; maps and aerial photographs;

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military administration; evolution of warfare; military law and boards.
Prerequisite: 1-2-3 or equivalent armed service credit.

THE ADVANCED COURSE

This is a two-year course elective to juniors, and carries three hours credit per quarter or eighteen hours for the full six quarters. Members of this course are selected by the Professor of Military Science and Tactics and the President of the University. Ex-service personnel at any level may apply, with the approval of the Dean of the College concerned. Their selection is dependent upon the approval of the officers named above.

Students enrolled in this course will receive a uniform allowance of \$87.07 for the course, and a subsistence allowance not to exceed the value of the garrison ration for the period that classes are scheduled. The class meets at least five periods per week with a minimum of one hundred sixty hours per academic year.

Attendance at a summer camp of six weeks duration is mandatory. During such attendance the student is paid at the pay scale of an enlisted man of the Army in the seventh grade. Mileage at five cents per mile is paid to and from camp. Students usually attend camp between the junior and senior academic years, but deferment may be made, for cogent reason, when approved by the Professor of Military Science and Tactics and the Commanding General, First Army.

On successful completion of the course, the student is normally commissioned as a Second Lieutenant, Infantry Branch, Officers Reserve Corps. Students who pursue appropriate academic courses may qualify for a commission in a Technical Service, such as Ordnance or Signal Corps. Students interested in this provision should consult the Professor of Military Science and Tactics.

7-8-9 ADVANCED COURSE I.

Three hours. F, W, S

Military leadership, psychology, and personnel management; leadership, drill, and exercise of command; military problems of the United States; occupied territories; military law and boards; tactics and techniques of infantry.

Prerequisite: 4-5-6 or equivalent service credit.

10-11-12 ADVANCED COURSE II.

Three hours. F, W, S

Command and staff; military teaching methods; psychological warfare; geographical foundation of national power; leadership, drill, and exercise of command; combined and joint operations; military mobilization and demobilization; tactics and technique of infantry.

Prerequisite: 7-8-9.

Register, 1946-1947

RESIDENT GRADUATE STUDENTS

- Robert Willets Abendroth, A.B. (BOWDOIN), *Education*, Port Chester, N. Y.
John Edward Akey, PH.B. (ST. MICHAEL'S), *Education*, Burlington
Roy Edward Alberghini, B.S. IN ED. (U.V.M.), *Education*, Orleans
Florin Joseph Amrhein, B.S. (M.I.T.), *Economics*, ST. MICHAEL'S, Winooski
Frank William Bailey, B.S. (NORWICH), *Chemistry*, Orleans
Helen Alvord Beardslee, A.B. (MIDDLEBURY), *Education*, Springfield
John Richard Bergen, B.A. (COLGATE), *Medicine*, Glenmont, N. Y.
Thomas Patrick Bergin, B.S. IN COM. (U. OF NOTRE DAME), *Economics*, ST. MICHAEL'S, Winooski
Ronald Rossi Bielli, B.S. IN E.E. (U.V.M.), *Mathematics*, Barre
Gladys Gleason Brooks, PH.B. (U.V.M.), *English*, Burlington
Henry Nelson Browne, Jr., A.B. (U.V.M.), *Mathematics*, Burlington
Velma Anna Cochran, PH.B. IN ED. (U.V.M.), *Zoology*, Stowe
Gladys LaFlamme Colburn, PH.B. (U.V.M.), *English*, Burlington
Clinton Dana Cook, Jr., B.S. IN CHEM. (M.I.T.), *Chemistry*, Shelburne
Roger G. Cooley, B.S. (HAMILTON), *History*, Shelburne
Frederick Richard Cummings, B.S. (ST. MICHAEL'S), *Chemistry*, Burlington
Edward Joseph Curran, B.ED. (CASTLETON NORMAL), *Education*, East Arlington
Ralph Dettmer Divine, B.S. CHEM. (U.V.M.), *Chemistry*, Waterbury
Helen Drugg, A.B. (U.V.M.), *Zoology*, Winchester, N. H.
James Kelman Duncan, B.S. IN M.E. (U.V.M.), *Education*, Winooski
Robert Emmett Fenix, B.S. IN AG. (U.V.M.), *Agricultural Economics*, Burlington
David Tyler Goodell, A.B. (MIDDLEBURY), *Education*, Wells River
Leonard Harrington, A.B. (U.V.M.), *Economics*, N. Wilbraham, Mass.
Mary Dennen Hartung, A.B. (RADCLIFFE), *Zoology*, Burlington
Harry David Holden, Jr., A.B. (U. OF N. C.), *Education*, Burlington
Carleton Leslie Holmes, B.S. IN ED. (U.V.M.), *English*, Burlington
Verle Randall Houghaboom (U.V.M.), *Agricultural Economics*, Orleans
David Bradford Hopkinson, B.S. IN M.E. (U. OF ME.), *Mechanical Engineering*, Portland, Me.
Mary Hotchkiss, B.S. (RUSSELL SAGE), *English*, Flushing, N. Y.
Harry Elwin Howe, A.B. (U.V.M.), *Education*, Tunbridge
Andrew Drennon Kay, A.B. (UNION), *History*, Bellows Falls
Allan Grenville Kidd, PH.B. (U.V.M.), *History*, Northfield
Philip Safford Killoran, A.B. (U.V.M.), *History*, Essex Junction
Richard Foster Kipp, B.S. IN ED. (U.V.M.), *Education*, Burlington
Mary Ann Kudiesy, B.ED. (U.V.M.), *Education*, Burlington
Electa Schaefer Ladd, PH.B. (U.V.M.), *English*, Burlington
Kenneth Herbert Lanouette, B.E. (U. OF SO. CAL.), *Business*, Burlington
Nathaniel Robert Lash, B.S. IN B.A. (BOSTON UNIV.), *Economics*, Burlington
Romuald Gerard Lesage, A.B. (ST. MICHAEL'S), *Chemistry*, Winooski
Richard Bradford Ludwig, B.S. (ST. MICHAEL'S), *Chemistry*, Burlington
Chester Charles McCabe, B.S. (UNIV. OF CHICAGO), *Physics*, Shoreham

Roberta Weeks McCarthy, B.S. IN ED. (U.C.L.A.), *Education*, W. Springfield, Mass.
 Robert Parker McLaughlin, A.B. (BOSTON COLLEGE), *English*, Bennington
 Charles Merritt, Jr., A.B. (DARTMOUTH), *Chemistry*, Swampscott, Mass.
 Edward F. Murphy, A.B. (ST. MICHAEL'S), *Education*, St. Michael's, Winooski
 Dorothy Offensend, B.ED. (CASTLETON NORMAL), *Education*, Burlington
 Francis P. O'Toole, B.S. (TEACHERS COLLEGE, Fitchburg, Mass.), *Education*, Burlington
 Wilbert John Patton, B.S. (U.V.M.), *Education*, Milton
 Stuart Robert Pease, B.S. (ST. MICHAEL'S), *Education*, Burlington
 Carolyn Ayres Phelps, B.ED. (U.V.M.), *Education*, Milton
 George Dudley Phinney, A.B. (MIDDLEBURY), *Education*, Middlebury
 Gloria Barbara Pica, B.S. (QUEENS COLLEGE), *Zoology*, Laurelson, N. Y.
 George P. Pillischer, B.A. (WASHINGTON SQUARE, N.Y.U.), *Medicine*, Burlington
 Robert Myer Rosenberg, Jr., B.S. IN C. & EC. (U.V.M.), *Economics*, Burlington
 Joseph Edward Rousseau (ST. MICHAEL'S), *Chemistry*, Burlington
 Robert Clayton Sayre, B.S. IN C. & EC. (U.V.M.), *History*, Wadhams, N. Y.
 John Joseph Spasyk, B.S. IN ED. (U.V.M.), *Education*, Burlington
 Robert Prindle Story, B.S. IN AG. (U.V.M.), *Agricultural Economics*, Putney
 Norman Kenneth Strassburg, B.S. IN ED. (U.V.M.), *Education*, Burlington
 John Henry Sutor, PH.B. (U.V.M.), *English*, Burlington
 Oliver Franklin Swift, A.B. (U.V.M.), *Physics*, Burlington
 Sidney Hale Thomas, A.B. (MIDDLEBURY), *Education*, Orwell
 Harris Elliot Thurber, A.B. (U.V.M.), *Political Science*, St. Johnsbury
 Raymond Herman Tremblay (U.V.M.), *Agricultural Economics*, No. Springfield
 David Chase Tuholski, B.S. (U.V.M.), *Political Science*, Brockton, Mass.
 Lawrence Langdon Ward, B.ED. (CASTLETON NORMAL), *Education*, Castleton
 Mary Elizabeth Williams, B.S. IN C. & EC. (U.V.M.), *Economics*, Springfield
 Harry James Winchell, B.S. IN ED. (U.V.M.), *History*, So. Royalton

GRADUATE STUDENTS IN THE SUMMER SESSION

Alfred Franklin Amee, B.S. (VERMONT), *Education*, Randolph
 Marshall Alfred Ames, B.S. (NORWICH), *Education*, East Corinth
 Harold Albert Anderson, A.B. (UPSALA), *Education*, West Rutland
 Mary Margaret Moore Audette, A.B. (TRINITY), *Education*, Burlington
 Roger Freeman Barton, A.B. (NEW HAMPSHIRE), *Education*, Orleans
 Hiram Orlando Bevins, B.ED. (VERMONT), *Music Education*, Milton
 Ronald Rossi Bielli, B.S. (VERMONT), *Mathematics*, Barre
 Ray J. Bilak, A.B. (NEW YORK UNIVERSITY), *Psychology*, New York, N. Y.
 Willard Henry Blaisdell, B.S. (VERMONT), *Education*, Enosburg Falls
 Helen Ruth Bolger, B.S. (NEW YORK UNIVERSITY), *Education*, Montclair, N. J.
 Wilfred Henry Bourdeau, B.S. (VERMONT), *Agricultural Education*, Bristol
 Ernest Conrad Bratt, A.B. (BOWDOIN), *Education*, Burlington
 Joseph Edward Brousseau, B.ED. (LYNDON NORMAL), *Education*, Springfield
 Mrs. Mary Ardell Burgess, A.B. (BOSTON), *Education*, Barton
 Ruth Miriam Buxton, A.B. (VERMONT), *Education*, Saxtons River
 Thomas Henry Candon, A.B. (ST. MICHAEL'S), *Education*, Pittsford
 Alden Jesse Carr, A.B. (BROWN), *Education*, Lyndon Center
 Melvin H. Carter, A.B. (MIDDLEBURY), *Education*, Derby
 George L. Cassidy, B.S. (VERMONT), *Education*, Poultney
 Henry Benson Caswell, B.S. (NEW HAMPSHIRE), *Education*, Burlington

- John Bailey Chapman, B.S. (DARTMOUTH), *Education*, Franconia, N. H.
 Russell Drake Chase, B.S. (VERMONT), *Education*, Burlington
 Ruth Ardell Child, A.B. (BRYANT), *Education*, Putnam, Conn.
 John W. Chrusciel, A.B. (ST. MICHAEL'S), *Education*, West Rutland
 Elizabeth A. Clark, A.B. (MT. HOLYOKE), *Political Science*, Fitchburg, Mass.
 Regina M. Codey, A.B. (BANNAR), *English*, Manchester
 Angela Margaret Crowley, B.S. (NORTH ADAMS STATE TEACHERS), *Education*, North Adams, Mass.
 Doris Beane Crozier, A.B. (TRINITY), *Education*, Burlington
 Morton Learned Cushing, A.B. (VERMONT), *Education*, St. Albans
 Harold Robert Cushman, B.S. (VERMONT), *Education*, Woodstock
 M. Edward Dakin, A.B. (WILLIAMS), *Education*, New Lebanon, N. Y.
 Albert Philias Dauphin, B.ED. (CASTLETON NORMAL), *Education*, Vergennes
 Hazel Goodwin Devereaux, B.ED. (LYNDON NORMAL), *Education*, Springfield
 Burt Lee Dexter, A.B. (BATES), *Education*, Beverly, Mass.
 Rachael Adeline Dix, B.S. (VERMONT), *Education*, Barre
 Margaret Verna Doty, A.B. (SWARTHMORE), *Education*, Lansdowne, Pa.
 Helen Drugg, A.B. (VERMONT), *Zoology*, Winchester, N. H.
 Evelyn Alice Eaton, PH.B. (VERMONT), *Education*, Waitsfield
 Grace Adams Farrington, A.B. (NEW HAMPSHIRE), *English*, Burlington
 Henry John Fisk, A.B. (DARTMOUTH), *Education*, Wilder
 Mazie McCuen Foster, B.S. (BOSTON UNIVERSITY), *Education*, Vergennes
 Donald Edwin Friedrichs, A.B. (ANTIOCH), *Education*, Burlington
 Susie Powers Gandy, B.S. (ALABAMA STATE TEACHERS), *Education*, Huntsville, Ala.
 John Pollard Gates, B.S. (RUTGERS), *Education*, White River Junction
 Ernest Roy Giffin, B.S. (VERMONT), *Agriculture*, Richmond
 David T. Goodell, A.B. (MIDDLEBURY), *Education*, Wells River
 Wilfred Thomason Grenfell, Jr., M.A. (OXFORD), *Education*, Charlotte
 Harvey Barnes Grocock, A.B. (WILLIAMS), *Education*, Torrington, Conn.
 Arthur Malcolm Guild, B.S. (VERMONT), *Education*, Rutland
 Helen Sexton Hall, B.ED. (CASTLETON NORMAL), *Education*, Castleton
 Amy Luella Hammond, B.S. (VERMONT), *Home Economics Education*, Burlington
 Mary Veronica Harrington, A.B. (OUR LADY OF THE ELMS), *Education*, Holyoke, Mass.
 Robert E. Hasseltine, A.B. (MICHIGAN), *Education*, Bristol
 Ruth Janet Hasseltine, PH.B. (VERMONT), *Education*, Bristol
 Carl Winfield Hathaway, B.S. (VERMONT), *Education*, South Burlington
 Kenneth Hill, A.B. (MCGILL), *Education*, Quebec, Canada
 Randolph Hooker Hill, TH.B. (GORDON), *Education*, Bradford
 Winslow R. Hodgdon, A.B. (MIDDLEBURY), *Education*, Burlington
 Harry David Holden, Jr., A.B. (NORTH CAROLINA), *Education*, Burlington
 Carleton Leslie Holmes, B.S. (VERMONT), *English*, Burlington
 Laura A. Holmes, B.S. (CALIFORNIA NORMAL), *Education*, Pittsburgh, Pa.
 Chesley Peck Horton, B.S. (VERMONT), *Education*, Middletown Springs
 Alfred Weldon House, B.S. (NORWICH), *Education*, Northfield
 Alice Hastings Howe, B.ED. (VERMONT), *Education*, Passumpsic
 Eugene G. Hoyt, B.S. (MIDDLEBURY), *Education*, Brandon
 Homer E. Hunt, A.B. (BROWN), *Education*, St. Albans
 Cora Alice Hutchins, B.S. (VERMONT), *Education*, Burlington
 Lillian Myers Iverson, B.ED. (VERMONT), *Education*, Burlington
 Orson Wilbur Jay, PH.B. (VERMONT), *Education*, Burlington
 William John Josko, B.S. (AMERICAN INTERNATIONAL), *Education*, Springfield, Mass.

- Philip Safford Killoran, A.B. (VERMONT), *History*, Essex Junction
Philip Alfred Klinglof, M.A. (CLARK), *Education*, Worcester, Mass.
Raymond Curtis Lamberton, B.ED. (LYNDON NORMAL), *Education*, Bradford
Wilfred Avery Leslie, B.S. (CONNECTICUT STATE), *Agricultural Education*, Orleans
Mrs. Winnifred Alice Loomis, A.B. (UNION), *Education*, Wolcott
Olive Eddy Lucas, B.S. (VERMONT), *Psychology*, Island Pond
Allan Dale MacDonald, PH.B. (VERMONT), *Education*, Hardwick
Donald William Maley, B.S. (VERMONT), *Education*, Burlington
Joseph Rafter Mallard, A.B. (BATES), *Education*, Island Pond
Wallace Albert Martin, A.B. (NORWICH), *Education*, Fort Ethan Allen
Roberta Weeks McCarthy, B.S. (AMERICAN INTERNATIONAL), *Education*, West Springfield, Mass.
Elizabeth Mary McDonald, A.B. (NEW ROCHELLE), *Education*, Stamford, Conn.
Gertrude Veronica McKenna, B.ED. (CASTLETON NORMAL), *Education*, Fair Haven
Alan Campbell McKernan, A.B. (DARTMOUTH), *Education*, Barre
Robert Parker McLaughlin, A.B. (BOSTON COLLEGE), *Education*, Bennington
Jean Louise McMahon, B.ED. (VERMONT), *Education*, Barre
Eleanor Beatrice Miller, A.B. (SMITH), *English*, Hadley, Mass.
Arlo Pepoon Monroe, B.F.A. (NEBRASKA), *Education*, East Jamaica
Esther Beatrice Moore, B.ED. (VERMONT), *Education*, Fair Haven
Maurice Brush Morrill, B.S. (VERMONT), *Education*, Burlington
Bailey Henry Moulton, B.S. (NORWICH), *Education*, North Troy
Franklin Woodman Myers, A.B. (MIDDLEBURY), *Education*, Burlington
Dorothy Eunice Offensend, B.ED. (CASTLETON NORMAL), *Education*, Burlington
Kathleen Lillian O'Leary, A.B. (OUR LADY OF THE ELMS), *Education*, Holyoke, Mass.
James Patrick O'Rourke, B.S. (NORWICH), *Education*, Middletown Springs
Francis Patrick O'Toole, B.S. (FITCHBURG TEACHERS), *Education*, Burlington
Biagio Palermo, A.B. (VERMONT), *Education*, Waterbury
Leo Joseph Papineau, A.B. (ST. MICHAEL'S), *Education*, Swanton
Jules Francis Pequignot, PH.B. (ST. MICHAEL'S), *Education*, Burlington
Marjorie Louise Perrin, A.B. (VERMONT), *Education*, Burlington
Louis Pichierri, B.ED. (VERMONT), *Music*, Burlington
Donald Chester Pierce, B.S. (VERMONT), *Agricultural Education*, Richford
Mary Elizabeth Quilty, B.ED. (RHODE ISLAND COLLEGE OF EDUCATION), *Education*, Cranston, R. I.
Arthur Prescott Quimby, B.S. (MIDDLEBURY), *Education*, Rochester
Ernest Benjamin Rand, B.S. (VERMONT), *Education*, Euclid, Ohio
Iva Ellen Robertson, B.S. (VERMONT), *Education*, Waterbury
Cecil Edson Robinson, B.S. (BOSTON UNIVERSITY), *Education*, North Troy
Virginia Elizabeth Robinson, B.ED. (PLATTSBURG STATE TEACHERS), *Education*, Plattsburg, N. Y.
J. Robert Rooney, B.S. (OHIO STATE), *English*, Circleville, Ohio
Barbara Bradford Rose, B.ED. (CASTLETON NORMAL), *Education*, Fairfax
Rita Muriel Ryan, A.B. (ST. JOSEPH), *Political Science*, Stamford, Conn.
Theodore Dearborn Sargent, B.S. (VERMONT), *Education*, Bakersfield
LaFayette Ludovi Saucier, A.B. (ST. MICHAEL'S), *Education*, Winooski
Charles Davis Sawyer, PH.B. (ST. MICHAEL'S), *Education*, Fairfax
Robert Clayton Sayre, B.S. (VERMONT), *History*, Wadhams, N. Y.
Howard Madison Scammon, Jr., A.B. (WILLIAM & MARY), *English*, Newport News, Va.
Sarah Louise Scammon, A.B. (WILLIAM & MARY), *History*, Newport News, Va.
Janet Preston Sheltus, PH.B. (VERMONT), *Education*, Swanton

Philip Lawrence Smith, B.S. (MASSACHUSETTS STATE), *Education*, Williamstown
 Richard Francis Snape, PH.B. (VERMONT), *Education*, North Adams, Mass.
 Ruth Ada Spooner, B.ED. (VERMONT), *Education*, Burlington
 Waldo Russell Streeter, B.ED. (KEENE TEACHERS), *Education*, South Acworth, N. H.
 Thomas Joseph Sullivan, M.A. (ST. MICHAEL'S), *Education*, Vergennes
 Chester Mace Taft, B.S. (VERMONT), *Education*, Brandon
 Harriet Josephene Terry, A.B. (HOWARD), *English*, Normal, Ala.
 Guy Thomas Trono, B.ED. (VERMONT), *Education*, Burlington
 John Wardrop Urquhart, B.S. (MASSACHUSETTS STATE), *Education*, Pittsford
 William Frederick Vassar, PH.B. (VERMONT), *Education*, Bristol
 Ruth Thompson Visscher, A.B. (MICHIGAN), *Education*, Carmel, N. Y.
 William Thomas Watt, A.B. (MIDDLEBURY), *Education*, Burlington
 Frederick Henry Webster, B.S. (VERMONT), *Agricultural Education*, Hinesburg
 Gordon Granger Welch, B.S. (COLBY), *Education*, Island Pond
 Merlin Jerome Wells, B.S. (VERMONT), *Agricultural Education*, Jeffersonville
 Thomas Holman White, A.B. (PENNSYLVANIA STATE), *Education*, Philadelphia, Pa.
 Louise Willis, B.S. (VERMONT), *Education*, Pittsford
 Fern I. Wood, B.ED. (NEW YORK STATE TEACHERS), *Education*, Rochester, N. Y.
 Hazen Francis Wood, B.ED. (VERMONT), *Education*, Burlington
 Rachel Clare Wursthorne, A.B. (TRINITY), *Education*, Troy
 William Arnold Yasinski, B.S. (MIDDLEBURY), *Education*, Fair Haven

STUDENTS

(Corrected to October 29, 1946)

The order used in this list is as follows: Name, year, curriculum, and home address.

Abbreviations are as follows: Ag, Agriculture; Bus, Business; Ch, Chemistry; CE, Civil Engineering; CT, Commercial Teaching; EE, Electrical Engineering; EIE, Elementary Education; Engrg, Engineering; Gr, Graduate Division; HE, Home Economics; IE, Industrial Education; JHEd, Junior High School Education; LA, Liberal Arts; ME, Mechanical Engineering; Med, Medicine; MT, Medical Technology; MEd, Music Education; NEd, Nursing Education; PM, Pre-medicine; SED, Secondary Education; Sec, Secretarial; Sp, Special; Uncl, Unclassified; VEd, Vocational Education.

Marvin Aaron, '49; PM; Bridgeport, Conn.
 Clement J. Abatiell, '50; PM; Rutland
 Robert P. Abbiati, '50; LA; Barre
 George M. Abbott, Sp; Burlington
 Robert B. Abbott, '50; PM; Auburn, Me.
 Althea L. Abell, Sp; Burlington
 June B. Abell, '48; EIE; Burlington
 Edward P. Abrahamovich, '50; ME; Springfield
 Beverly J. Adams, '50; PM; Rutland
 Edwin B. Adams, '48; Med; Burlington
 John D. Adams, '49; LA; Bennington
 John G. Adams, '50; PM; Salem, Mass.

Nancy A. Ahern, '47; LA; Los Angeles, Calif.
 Natalie E. Aikens, '50; MEd; Bethel
 Ronald O. Aines, '50; LA; Middlebury
 Anthony M. Alberico, '47; PM; St. Albans
 Arthur D. Aldrich, '49; CE; Lyndonville
 Betsey C. Alexander, '48; LA; St. Albans
 Jean E. Alexander, '50; NEd; Burlington
 Thomas B. Alexander, Sp; Fort Ethan Allen
 Eleanor M. Allen, '47; Springfield, Mass.
 Elizabeth L. Allen, '48; LA; Mineola, N. Y.

- George W. Allen, '49; *Ag*; Essex Junction
 Lillian H. Allen, '49; *LA*; Fair Haven
 Lois E. Allen, '48; *HE*; South Hero
 Rita M. Allen, '50; *ELED*; Bennington
 J. Davies Allport, '49; *ME*; Waterford
 Lawrence A. Ambrose, '48; *ME*; Woodstock
 Isabel M. Amor, '48; *SED*; Montpelier
 Anthony J. Anderson, '50; *Bus*; Morris-
 town, N. J.
 Eleanor M. Anderson, '48; *LA*; Hyde
 Park
 Eunice B. Anderson, '49; *SED*; Proctor
 George R. Anderson, '49; *Engrg*; W. Rut-
 land
 Janice L. Anderson, '47; *ELED*; Craftsbury
 Robert J. Anderson, '50; *PM*; Rutland
 Mary E. Andrew, '49; *Cb*; Watertown,
 Mass.
 Everett B. Andrews, '48; *Ag*; Richmond
 Alice M. Annand, '48; *LA*; Darien, Conn.
 Earl S. Appleby, '50; *Bus*; Gilman
 Harold R. Archambault, '47; *PM*; Fort
 Ann, N. Y.
 Charles J. Arliss, '48; *PM*; Newark, N. J.
 Arthur C. Arms, '50; *EE*; Springfield
 Donald Armstrong, '50; *LA*; Burlington
 Bernard R. Arnholm, '50; *ME*; Barre
 Robert M. Aronson, '50; *ME*; Proctor
 Deal T. Aseltine, '48; *LA*; Essex Junction
 Harold F. Aseltine, '50; *ME*; Williston
 Barbara E. Ash, '50; *CT*; Bristol
 Jane A. Ash, '49; *MT*; Burlington
 Robert A. Astone, '49; *LA*; Beacon, N. Y.
 Vincent J. Astone, '48; *PM*; Beacon, N. Y.
 Henry V. Atherton, '48; *Ag*; Barton
 Anita J. Atkins, '50; *HE*; North Hero
 Frances D. Atkinson, '49; *HE*; Loch Ar-
 bour, N. J.
 John C. Atkinson, '50; *Ag*; W. Brattle-
 boro
 Margaret E. Atkinson, '50; *MT*; Malden,
 Mass.
 Jane N. Atwood, '49; *LA*; Delmar, N. Y.
 Richard R. Audette, '47; *ME*; St. Albans
 Romeo L. Audette, '50; *LA*; Burlington
 Rachel M. Audy, '50; *HE*; Danby
 Francis D. Auger, '49; *Bus*; Windsor
 Charles J. Averill, '50; *LA*; Richmond
 Jeanne C. Ayers, '47; *HE*; Essex Junction
 Lorraine B. Ayers, '50; *HE*; Essex Junction
 George M. Babic, '50; *EE*; Montpelier
 Jeanette B. Badger, '48; *JHed*; Hardwick
 Marjory E. Bagby, '48; *LA*; Concord,
 N. H.
 Janice C. Baird, '49; *ELED*; Moretown
 Albert W. Baker, '50; *SED*; Tappan, N. Y.
 Ann K. Baker, '50; *LA*; Old Bennington
 Richard J. Baker, '49; *Med*; Garfield,
 N. J.
 Roger A. Baker, '48; *CE*; Vernon
 Robert K. Baker, '50; *EE*; Enosburg Falls
 H. Brown Baldwin, '49; *ME*; Essex Junc-
 tion
 Geraldine R. Balich, '49; *ELED*; Barre
 R. Jean Ballard, '51; *NED*; Canaan
 John L. Ballard, '50; *Cb*; Milton
 Carolyn S. Ballou, '49; *LA*; Chester
 George R. Ballou, '50; *CE*; Springfield
 Laurence H. Ballou, '47; *PM*; Chester
 Henry C. Baltrucki, '49; *PM*; Gardner,
 Mass.
 Charles E. Banghart, '47; *ME*; Burlington
 Gladys H. Banghart, '48; *HE*; Burlington
 Thomas S. Banghart, '50; *EE*; Douglaston,
 N. Y.
 Ernest S. Barash, '47; *PM*; Brooklyn,
 N. Y.
 Dale L. Barber, '50; *EE*; St. Johnsbury
 Edward E. Barber, '50; *Bus*; Bennington
 Elizabeth H. Barber, '48; *MT*; Patchogue,
 N. Y.
 Wilfred J. Barcomb, '50; *Ag*; Burlington
 Arthur J. Barker, '48; *Med*; Somerville,
 Mass.
 Beverly J. Barker, '50; *LA*; Rutland
 John D. Barker, '48; *Cb*; St. Albans
 Charles H. Barnes, '48; *PM*; Burlington
 Joan G. Barrett, '48; *LA*; Burlington
 Phyllis R. Barron, '50; *HE*; Roxbury,
 Mass.
 Robert C. Barrows, '48; *LA*; Burlington
 Robert A. Barry, '50; *LA*; Burlington
 Rose M. Barry, '48; *ELED*; Bellows Falls
 Frank L. Bartlett, '48; *PM*; Burlington
 James F. Basque, '50; *LA*; Pedro Miguel,
 Canal Zone
 William D. Basque, '50; *PM*; Pittsford
 Theodore E. Battles, '48; *LA*; Millington,
 N. J.
 Seymour J. Baum, '48; *Med*; Bridgeport,
 Conn.
 Alexander E. Bayer, '48; *Med*; New
 Britain, Conn.

- Ann E. Bayley, '47; *LA*; Rye, N. Y.
 Luther P. Bayley, '50; *LA*; Burlington
 Beverly T. Beach, '49; *LA*; Litchfield,
 Conn.
 Barbara N. Beal, '50; *LA*; Burlington
 Natalie B. Beal, '47; *Bus*; Burlington
 Barbara A. Beals, '50; *LA*; Burlington
 Eileen E. Beane, '50; *ELED*; Middlebury
 Jean M. Beard, '50; *LA*; Jeffersonville
 Barbara Beattie, '48; *LA*; Mountain Lakes,
 N. J.
 Carlene Beattie, '49; *Ch*; Guildhall
 Gladys M. Beaurais, '49; *LA*; South Bur-
 lington
 Lawrence G. Beauregard, '50; *Engrg*; St.
 Albans
 Irwin W. Becker, '48; *PM*; Burlington
 Ralph S. Becker, '49; *Ch*; Freeport, Ill.
 Benoît J. Bedard, '50; *EE*; Barre
 Wilson H. Beebe, '47; *Ag*; E. Dorset
 Barbara J. Beecher, '48; *ELED*; Bennington
 Ruth M. Behrens, '49; *Sec*; Secaucus,
 N. J.
 Ernest J. Belair, '50; *PM*; Alburg
 Kenneth W. Belding, '50; *PM*; Plattsburg,
 N. Y.
 Armand J. Beliveau, '49; *EE*; Vergennes
 Maurice Beliveau, '48; *ME*; Vergennes
 David M. Bell, '50; *PM*; Alburg
 Marion E. Belville, '48; *ELED*; Barre
 Evelyn G. Bemis, '50; *ELED*; Jacksonville
 Anita H. Benjamin, '49; *LA*; Montreal,
 P. Q., Canada
 Catharine P. Benjamin, '47; *LA*; Stamford,
 N. Y.
 Alexander W. Bennett, '49; *Ag*; Burling-
 ton
 Wallace H. Benson, '49; *EE*; Bethel
 Ida M. Benton, '47; *CT*; Saxtons River
 Ernest E. Benway, '48; *ME*; Winooski
 William H. Berg, '50; *ME*; Fort Ethan
 Allen
 Carroll T. Berry, '48; *Ag*; Burlington
 Mary Bertucio, '50 *Med*; Springfield, Mass.
 Beatrice Bickford, '47; *LA*; Grafton, Mass.
 Roberta L. Bicknell, '50; *Engrg*; Chelsea
 Audrey I. Bidwell, '48; *LA*; Wells River
 Betsy A. Bigelow, '50; *LA*; Londonderry
 Robert A. Billhardt, '50; *Ag*; Somerville,
 N. J.
 Gladys A. Billings, '50; *HE*; Springfield
 Joyce E. Bingham, '49; *LA*; St. Albans
 Ellen F. Birchall, '47; *Med*; Burlington
 William N. Birnbaum, '49; *PM*; Cedar-
 hurst, N. Y.
 Robert C. Bishop, '50; *ME*; West Rutland
 Bertrand P. Bisson, '49; *PM*; Montpelier
 William C. Bister, '47; *LA*; Jericho
 Donald E. Bixby, '50; *EE*; Essex Junction
 Verne L. Bixby, '50; *CE*; Ludlow
 G. Allaire Blake, '49; *LA*; Exeter, N. H.
 Edwin H. Blakely, '50; *ME*; Burlington
 Harry S. Blanchard, '50; *Ch*; Orleans
 James R. Blanchard, '49; *Med*; Burlington
 Burton M. Blechman, '49; *PM*; New York,
 N. Y.
 Rosemary Blodgett, '50; *LA*; Lyndonville
 Charles A. Blood, '50; *PM*; White River
 Junction
 Thelma Bloom, '47; *LA*; Hartford, Conn.
 Sanford Bloomberg, '49; *PM*; Burlington
 Howard P. Bloomenthal, '48; *LA*; Burling-
 ton
 Eugene J. Bluto, '50; *PM*; Grand Isle
 Bernard A. Boardman, '50; *SED*; Bur-
 lington
 John D. Boardman, '48; *Med*; Burlington
 Robert A. Bogie, '50; *ME*; Loon Lake,
 N. Y.
 Richard N. Bohlen, '50; *CE*; Tenaflly,
 N. J.
 Rita H. Bolognani, '49; *ELED*; Readsboro
 Harry J. Bolwell, '49; *ME*; Kearny, N. J.
 Stanley K. Bond, *Sp*; Johnson
 Rene W. Bonnette, '50; *ME*; Burlington
 Anastasia B. Boretos, '47; *LA*; Rutland
 Henry Borge, '49; *CE*; Bakers Mills, N. Y.
 Andrew M. Bostock, '50; *LA*; Burlington
 Frederick A. Bosworth, '48; *EE*; Middle-
 bury
 Joan A. Bosworth, '48; *SED*; Bristol
 Lorraine L. Bosworth, '50; *LA*; Englewood,
 N. J.
 Richard E. Bouchard, '49; *Med*; Bridge-
 port, Conn.
 Lucille M. Boucher, '50; *HE*; Highgate
 Ctr.
 Shirley Boulanger, '48; *Med*; Hanson, Mass.
 Heath D. Bourdon, '48; *Med*; Claremont,
 N. H.
 Edward L. Bouton, '50; *Ag*; Londonderry
 Thane E. Bowen, '50; *Ag*; Springfield
 Elbridge R. Bowles, '50; *Ag*; St. Albans
 Kathleen C. Bowles, *Sp*; Arlington, Mass.

Harry K. Bowman, '50; *EE*; Johnson
Edward A. Boyarsky, '50; *Med*; Burling-
ton

Robert M. Boyarsky, '49; *PM*; Burlington
Helen E. Boyd, '48; *HE*; Woodbury,
Conn.

Marion E. Boyd, '49; *Bus*; Wilmington
Charlotte M. Boynton, '48; *ELED*; South
Pomfret

John W. Boynton, '49; *Bus*; Rutland
Janet P. Brackenridge, '49; *LA*; South
Orange, N. J.

Ernest C. Bratt, *Sp*; Milton, Mass.

Dorothy E. Brau, '50; *LA*; Jackson
Heights, N. Y.

George H. Bray, '47; *Med*; Burlington

M. Patricia Brayton, '50; *Med*; Poultney
Nicholas L. Brecher, '50; *EE*; Bridgeport,
Conn.

Mary E. Breen, '47; *MT*; Waterbury

Richard H. Breen, '48; *PM*; Jericho

Gloria Breger, '49; *LA*; Kew Gardens,
N. Y.

Charles H. Brenner, '50; *LA*; Lowell,
Mass.

Mary E. Bresnehan, '47; *HE*; Proctor

Delbert M. Bresette, '49; *ME*; St. Albans

Grace R. Brewster, '47; *LA*; Port Jervis,
N. Y.

Gardner P. Briggs, '49; *Engrg*; St. Albans

Marion P. Briggs, '47; *ELED*; New Haven

Marvin E. Briggs, '50; *PM*; New Haven

George H. Brigham, '50; *Bus*; Springfield,
Mass.

Lyman H. Brigham, '47; *Ag*; Burlington

Robert H. Brigham, '49; *Ag*; Jericho

Rosemary Bristol, '48; *LA*; Montpelier

Robert B. Brock, '47; *SED*; Groton

Margaret L. Brockway, '47; *HE*; Lyme
Center, N. H.

James F. Brodie, *Gr*; Burlington

Lee C. Bromley, '50; *ME*; Burlington

Harold V. Bronk, '49; *Bus*; Bellows Falls

Janet Brooks, '49; *ELED*; Barton

Donald N. Brothers, '49; *PM*; Waitsfield

Marilyn E. Brower, '48; *LA*; Keyport,
N. J.

Culver S. Brown, '49; *EE*; Granville, N. Y.

Harold P. Brown, '50; *PM*; Richmond

Lois S. Brown, '47; *HE*; Richmond

Lorraine E. Brown, '50; *LA*; St. Albans

Robert V. Brown, '50; *CE*; Burlington

Walter G. Brown, '47; *EE*; West Wards-
boro

Mary A. Browne, '50; *LA*; Burlington

Robert W. Browne, '50; *PM*; Wardsboro

Constance Brownell, '49; *Med*; Burlington

Edward E. Brownell, '49; *EE*; Lincoln

Donald C. Bruce, '50; *Ag*; Milton

Donald J. Brugger, *Sp*; Ludlow

Arline C. Brush, '49; *LA*; West Hartford,
Conn.

Stanton H. Bryden, '48; *Bus*; Vineyard
Haven, Mass.

Lester P. Byrne, '49; *PM*; White River
Jct.

Priscilla L. Buck, '50; *Bus*; Barre

Wendell R. Buck, '50; *SED*; Randolph

Donna M. Buckingham, '49; *LA*; Tidioute,
Pa.

Patricia L. Buckingham, '47; *LA*; White
Plains, N. Y.

Hollis E. Buckland, '50; *Bus*; Stowe

J. A. Bulen, '49; *Med*; Escondido, Calif.

Bernard G. Bullis, '49; *Bus*; Burlington

Clara E. Bundy, '47; *ELED*; Bethel

Edward S. Bundy, '48; *Med*; Southington,
Conn.

Marcia E. Burbank, '51; *NEd*; Hyde Park

John S. Burgess, '47; *LA*; Burlington

William A. Burgess, '50; *Bus*; Bennington

Mignon R. Burggraf, '47; *Ch*; Ruther-
ford, N. J.

Robert W. Burghart, '47; *LA*; Darien,
Conn.

Clarence F. Burke, '49; *EE*; Burlington

Daniel B. Burke, '50; *LA*; Wellesley, Mass.

Florence M. Burke, *Sp*; Burlington

Harold E. Burke, '49; *Bus*; Burlington

James P. Burke, '48; *LA*; Barre

Robert A. Burnell, '49; *SED*; Burlington

Ann V. Burnham, '48; *LA*; Waterbury

Elaine M. Burningham, '50; *LA*; Bristol,
Conn.

Lawrence E. Burningham, '49; *LA*; Bur-
lington

Eleanor M. Burns, '48; *ELED*; South Wood-
stock

Stanley L. Burns, '49; *PM*; Proctor

Neil I. Burrington, '49; *EE*; St. Johns-
bury

Dwight C. Burritt, '48; *EE*; Burlington

John L. Burrows, '50; *PM*; Brattleboro

Ben Bursten, '48; *LA*; Stamford, Conn.

- Gloria J. Bussiere, '47; *Sec*; Swanton
 Willard H. Buttles, '48; *EE*; Burlington
 Martha I. Buttrick, '48; *LA*; Burlington
 Wallace F. Buttrick, '48; *Med*; Burlington
 Dorothy J. Butzko, '47; *LA*; Fairfield, Conn.
 Elizabeth R. Buzzell, '49; *HE*; Bennington
 William J. Buzzell, '50; *Bus*; Bennington
 Laura M. Byington, '48; *HE*; Charlotte
 Irene M. Cadoret, '49; *LA*; West Rupert
 Nancy Cadoret, '48; *EIE*; Manchester Depot
 Lucienne V. Cadorette, '48; *SED*; Barre
 Leo J. Cain, '49; *LA*; Burlington
 Alfred A. Calcagni, '50; *EE*; Barre
 Rebecca Caldwell, '49; *NED*; Salem, Mass.
 Keith W. Calkins, '47; *LA*; Barton
 William A. Callahan, '49; *ME*; St. Albans, N. Y.
 Arthur W. Camire, '48; *Bus*; Barre
 Nancy M. Camm, '50; *LA*; Burlington
 Nevie E. Campi, '47; *LA*; Barre
 Barbara E. Cantwell, '49; *NED*; Vergennes
 Joseph A. Carbotti, '50; *PM*; Fair Haven
 Mitchell B. Carey, '49; *PM*; Ludlow
 Paul W. Carey, '47; *LA*; Ludlow
 Stanley G. Carey, '50; *Bus*; Burlington
 Norma F. Cargill, '50; *EIE*; Alburg
 Edith J. Carlson, '50; *EIE*; Essex Jct.
 Harold L. Carlsson, '50; *ME*; Burlington
 Charles M. Carlton, '50; *LA*; Burlington
 Jean A. Carlton, '47; *LA*; Burlington
 Norma E. Carmichael, '49; *LA*; Verona, N. J.
 Irving F. Carpenter, '50; *LA*; Waterford
 John L. Carpenter, '50; *Ag*; Concord
 Torrey C. Carpenter, '48; *Bus*; Burlington
 William J. Carpenter, '50; *Bus*; Barre
 Louise W. Carroll, '49; *LA*; Burlington
 Allan B. Carter, '50; *Med*; Burlington
 Catherine B. Carter, '49; *HE*; Burlington
 John W. Carter, '48; *ME*; Burlington
 Charles E. Carver, '47; *CE*; South Hero
 Mary D. Caryl, '49; *MT*; Brandon
 Warren H. Caryl, '49; *LA*; Brandon
 Joan Cassista, '49; *LA*; Chester
 Roland E. Cater, '50; *LA*; Montpelier
 Truman R. Cavanaugh, '49; *Ag*; Middle-town Springs
 Helen E. Cayey, '48; *LA*; Burlington
 George A. Cayo, '49; *LA*; Burlington
 Raymond R. Centybear, '49; *Bus*; Burlington
 Ella E. Chamer, '49; *LA*; Union, N. J.
 Virginia H. Chandler, '49; *LA*; Concord, N. H.
 William A. Chapin, '50; *PM*; Springfield, Mass.
 Carolyn M. Chapman, '50; *SED*; Vergennes
 Diana J. Charles, '50; *Med*; Locust Valley, N. Y.
 Foster H. Chase, '50; *CT*; Bellows Falls
 Russell J. Chase, '49; *Bus*; Lyndonville
 Loren A. Cheeseman, '49; *Bus*; Burlington
 John W. Cherry, '49; *LA*; Chatham, N. J.
 Erwin L. Chicoine, '49; *EE*; Burlington
 John A. Child, '50; *Ag*; Middlebury
 James B. Chiolino, '49; *ME*; Ludlow
 Eugene R. Chisholm, '48; *Med*; Montpelier
 Herman A. Chittenden, '50; *CE*; Hartford
 Robert J. Chittick, '50; *PM*; Waterbury
 David G. Christian, '49; *Bus*; Fort Ethan Allen
 Patricia A. Christian, *Sp*; Fort Ethan Allen
 Nancy L. Church, '48; *HE*; Plainfield, N. J.
 Paul G. Chusid, '50; *EE*; Barre
 Albert J. Cichon, '49; *SED*; West Rutland
 Thomas P. Clairmont, '48; *CT*; Burlington
 Natalie Clapp, '49; *PM*; Baldwinsville, N. Y.
 Stanley H. Clapp, '48; *PM*; Brattleboro
 Barbara A. Clark, '48; *LA*; Burlington
 Carol M. Clark, '48; *EIE*; Glover
 Dale W. Clark, '48; *EIE*; Glover
 Dorothy Clark, '48; *LA*; East Dover
 Gladys A. Clark, '49; *Ch*; Schenectady, N. Y.
 Grant F. Clark, '50; *Bus*; Chittenden
 Jean L. Clark, '48; *Sec*; Burlington
 Marjorie F. Clark, '48; *LA*; Barre
 James F. Clarke, '49; *ME*; White Plains, N. Y.
 Pauline E. Clarke, '50; *Med*; Fairfield, Conn.
 G. Janet Clogston, '47; *LA*; North Troy
 William F. Clossey, '50; *LA*; Montpelier
 Gladys M. Coates, '48; *EIE*; Brandon
 Deborah E. Cobb, '48; *ME*; Newbury
 Lawrence R. Cobb, '49; *EE*; Brattleboro

- Richard B. Cobb, '50; *Ag*; Newbury
 Gordon S. Cochran, '47; *ME*; Quincy, Mass.
 Winston E. Cochran, '48; *Med*; Morrisville
 Margaret A. Coffin, '51; *NED*; Essex Jct.
 Joyce A. Colby, '47; *ELED*; Montpelier
 Norma R. Colby, '49; *CE*; St. Johnsbury Center
 Albert E. Cole, '50; *ELED*; Northfield
 Thelma Cole, '49; *LA*; Wilmington
 Loretta A. Coletti, '48; *LA*; Barre
 Arthur B. Collier, '49; *SED*; Great Neck, N. Y.
 Clayton S. Collier, '49; *EE*; North Tarrytown, N. Y.
 Vernon V. Collings, '50; *ME*; Worcester, Mass.
 George H. Collins, '49; *EE*; Burlington
 Julian L. Collins, '50; *ME*; St. Johnsbury
 Walter B. Collins, '49; *CE*; West Berkshire
 Warren B. Collins, '49; *PM*; Colchester
 Robert E. Collopy, '50; *CE*; Winooski
 Arnold H. Colodny, '48; *PM*; Burlington
 Raymond M. Combs, '48; *Cb*; Wallingford, Conn.
 Louise Comings, '47; *ELED*; Richford
 William H. Comings, '50; *Bus*; Richford
 Edward J. Comolli, '50; *ME*; Barre
 Raymond A. Comolli, '50; *ME*; Barre
 Betty G. Comstock, '49; *LA*; Barton
 Charles F. Comstock, '50; *SED*; Bristol
 Ralph W. Conant, '49; *LA*; Portland, Me.
 Elizabeth M. Concklin, '47; *LA*; Rutherford, N. J.
 Robert B. Condon, '50; *LA*; Rutland
 Kenneth P. Congdon, '49; *EE*; Bellows Falls
 Dale M. Conley, '48; *Ag*; Windsor
 Richard R. Conrad, '48; *SED*; Morrisville
 Carol J. Conroy, '48; *LA*; White Plains, N. Y.
 Bernard F. Conte, '50; *PM*; St. Albans
 Reno J. Conti, '47; *NED*; Barre
 Urania Contos, '48; *LA*; Newburyport, Mass.
 Esther C. Cook, '47; *MED*; St. Johnsbury
 Hobart W. Cook, '50; *SED*; Auburn, Me.
 Mary J. Cook, '48; *HE*; Burlington
 Wayne W. Cook, '49; *Ag*; Burlington
 Chester R. Cooley, '50; *Ag*; Barnet
 Kenneth C. Cooley, '50; *SED*; Windsor
 Roger W. Cooper, '50; *Med*; Northfield
 William D. Cooper, '49; *ME*; Pittsfield, Mass.
 Robert J. Corbin, *Sp*; Dundee, Mich.
 Charles E. Corey, '50; *EE*; Rutland
 William M. Corey, '47; *Ag*; West Rutland
 Paul E. Corley, *Sp*; *PM*; Burlington
 Elizabeth L. Corliss, '48; *ELED*; E. Corinth
 Harris E. Corliss, '50; *EE*; Jericho
 John O. Corliss, '47; *LA*; Burlington
 Reginald H. Corliss, '50; *PM*; Colebrook, N. H.
 Harvey O. Corman, '49; *Bus*; Burlington
 Douglas R. Corron, '49; *EE*; Burlington
 George G. Corsones, '50; *Bus*; Rutland
 Freda L. Corwin, '48; *LA*; So. Royalton
 Lewis A. Corwin, '50; *LA*; South Royalton
 Charles V. Constantino, '49; *PM*; Bennington
 Lillian M. Cotnoir, '50; *LA*; Lowell
 Edward J. Coughlin, '47; *LA*; Barre
 Carlton J. Courtney, '50; *EE*; St. Albans
 Therese S. Coutu, '49; *ELED*; Westfield
 David M. Cox, '48; *LA*; Kew Gardens, N. Y.
 Elizabeth L. Cox, '49; *LA*; Short Hills, N. J.
 Edmon N. Craige, '48; *Bus*; Graniteville
 Elizabeth A. Craigie, '50; *LA*; Burlington
 John M. Crampton, '50; *LA*; Rutland
 Charlotte P. Crandall, '50; *SED*; Hardwick
 Marilla A. Crandall, '49; *ELED*; Springfield
 Paul H. Crandall, '47; *Med*; Essex Jct.
 Edward B. Crane, '47; *Med*; Burlington
 Helen L. Crawford, '50; *Cb*; Concord
 Katherine Crocker, '49; *LA*; Ashfield, Mass.
 Helen Crocker, '48; *LA*; Burlington
 Juanita E. Cross, '49; *ELED*; Underhill
 Philip J. Cross, '50; *Ag*; Highgate Center
 James J. Crowley, '49; *Bus*; New Haven, Conn.
 Leonard V. Crowley, '49; *Med*; Binghamton, N. Y.
 Andrew J. Culver, *Sp*; Wayne, Pa.
 Crofter E. Cummings, '50; *EE*; Windsor
 James W. Cummings, '49; *Bus*; Buffalo, N. Y.
 George P. Cunavelis, '48; *Bus*; St. Johnsbury

- Doris J. Cureau, '49; *SED*; Tarrytown, N. Y.
- Joan Curtis, '50; *LA*; Burlington
- Newell H. Curtis, '50; *LA*; Montpelier
- Robert M. Curtis, '47; *ME*; Middlebury
- Marjorie E. Cutler, '47; *LA*; North Adams, Mass.
- Allan R. Cutting, '50; *Bus*; Burlington
- Claude L. Cyr, '50; *Med*; Van Buren, Me.
- Peter S. Czachor, '50; *Med*; Rutland
- Michael P. Dacquisto, '49; *Med*; Pelham, N. Y.
- Edmund J. Dague, '49; *Ch*; Burlington
- Lawrence P. Dale, '49; *LA*; Montpelier
- Porter H. Dale, '47; *Med*; Island Pond
- Malcolm N. Dana, '50; *Ag*; North Pomfret
- Raymond A. Dana, '50; *PM*; East Wallingford
- Horace J. Daniels, '49; *PM*; Burlington
- Leslie J. Daniels, '50; *ME*; Montpelier
- Leroy H. Danyow, '47; *CE*; Enosburg Falls
- Anthony L. Danza, '49; *Med*; Brooklyn, N. Y.
- Paul L. Darby, '49; *LA*; Derby Line
- Joseph B. Datnoff, '50; *Bus*; Burlington
- Robert I. Davies, '50; *PM*; Poultney
- Earle M. Davis, '49; *Med*; Reading, Mass.
- Florence L. Davis, '48; *HE*; Hardwick
- Jean Davis, '48; *MED*; Northfield
- Justin C. Davis, '50; *Engrg*; Ludlow
- Marilyn Davis, '49; *SED*; Bridgewater
- Philip H. Davis, '50; *PM*; Burlington
- Sidney E. Davis, '49; *PM*; Burlington
- Virginia A. Davis, '50; *LA*; Windsor
- Dorothy A. Day, '47; *HE*; Springfield
- Llewella B. Day, '47; *LA*; West Rutland
- Pauline E. Day, '50; *ELED*; Springfield
- Mary K. DeForest, '50; *LA*; Burlington
- Ernest R. Deitch, '49; *Med*; Kirkville, Ia.
- Mary L. Delano, '48; *LA*; Shoreham
- Ronald J. D'Elia, '49; *PM*; Bridgeport, Conn.
- Alfred F. DeMarinis, '49; *PM*; St. Albans
- Paul E. Demick, '50; *Bus*; Orleans
- Robert T. DeNeve, '50; *LA*; Bristol
- Norman F. Dennis, '50; *PM*; St. Albans
- Cleveland R. Denton, '48; *Med*; Schenectady, N. Y.
- Marilyn E. Derrick, '48; *LA*; West Hartford, Conn.
- Clarence M. DeSorcie, '50; *LA*; East Highgate
- Girard G. Desormeaux, '50; *Bus*; Winooski
- Lionel S. Destremps, '50; *MT*; Burlington
- Donald R. DeVarney, '49; *CE*; Winooski
- James G. Dever, '49; *EE*; Barre
- Stanley A. Deverman, '50; *EE*; Arlington
- Harry B. Dewar, '49; *ME*; Burlington
- Marion P. Dewin, '50; *LA*; Enosburg Falls
- Dorothy M. Dexter, '48; *HE*; Pearl River, N. Y.
- Richard H. Dexter, '50; *EE*; Bellows Falls
- Robert T. Dickinson, '50; *Engrg*; Winthrop, Mass.
- Marcelino Diez, '47; *ME*; Barre
- Mildred J. Dillback, '49; *SED*; Brattleboro
- William A. Dingerson, '50; *LA*; Burlington
- Gerald F. Dixon, '49; *CE*; St. Albans
- Merritt E. Dockey, '48; *EE*; Burlington
- William A. Doenges, '50; *LA*; Williston
- Daniel F. Doheny, '49; *Bus*; St. Albans
- Robert C. Doherty, '47; *Med*; Burlington
- Byron Dolgin, '49; *PM*; St. Johnsbury
- Richard H. Dolloff, '48; *PM*; Peabody, Mass.
- Berkley A. Donahue, '50; *LA*; Lyndonville
- Virginia H. Donaldson, '47; *LA*; Washington, D. C.
- Paul Dondes, '49; *Bus*; Burlington
- Dona Donelan, '49; *LA*; Dedham, Mass.
- Simon Dorfman, '50; *Med*; Biddeford, Me.
- Nancy I. Dorman, '48; *Sec*; Delmar, N. Y.
- William C. Dorr, '49; *ME*; Essex Jct.
- Hubert A. Dowling, '47; *LA*; St. Albans
- Mary M. Downey, '48; *Bus*; Nashua, N. H.
- George F. Downing, '50; *CE*; Hanover, N. H.
- Anna M. Dragoon, '49; *LA*; Witherbee, N. Y.
- Elizabeth F. Drake, '50; *Med*; Middlebury
- Jack P. Drowne, '50; *Bus*; Morrisville
- Donald B. Drury, '49; *CE*; Essex Jct.
- Harris K. Drury, '48; *Bus*; Essex Jct.
- Norma E. Dubie, '49; *LA*; Burlington
- Vivian DuBrule, '48; *ELED*; Burlington
- Richard B. Dudley, '50; *Bus*; Orleans
- Scott W. Dudley, '50; *PM*; Woodstock
- Wayne G. Dudley, '47; *SED*; Shoreham
- Annabelle M. Duff, '49; *NED*; Plymouth, Conn.

- Robert J. Dufresne, '50; *CE*; Barre
Ellen M. Dunn, '49; *SED*; Craftsbury
Common
Helen A. Durant, '47; *ELED*; E. Middle-
bury
Herbert A. Durfee, '48; *Med*; Burlington
Joan B. Durfee, '47; *ME*; Bethel
Priscilla A. Durfee, '49; *LA*; Bethel
Delmer Durgin, '47; *Med*; Central Islip,
N. Y.
Martha L. Durgin, '47; *LA*; Enosburg
Falls
Douglas W. Durkee, '49; *SED*; Post Mills
Marjorie A. Durkee, '50; *HE*; So. Royalton
John W. Durkin, '48; *PM*; Poultney
Andre J. Dussault, '50; *EE*; St. Albans
Berton W. Dwinell, '50; *ME*; Bradford
Doris I. Dwyer, '47; *MT*; Bristol
Priscilla M. Dyer, '50; *LA*; Bennington
Phyllis J. Dykhuizen, '50; *LA*; Burlington
Harry J. Dziewaltowski, '49; *Bus*; Spring-
field
John E. Earley, '49; *ME*; Burlington
Mary E. Earley, '50; *HE*; Burlington
Richard K. Earley, '49; *ME*; Burlington
Carl W. Eastman, '49; *Bus*; Wallingford
Joyce E. Eastwood, '50; *Ch*; Danvers,
Mass.
Harry E. Eaton, '49; *Med*; Willimantic,
Conn.
Kathryn Eaton, '49; *LA*; Rutland
Maxwell E. Eaton, '49; *ME*; Proctor
William T. Eddington, '49; *Bus*; Benning-
ton
Dwight K. Eddy, '47; *Ag*; Hinesburg
John R. Eddy, '50; *PM*; Burlington
Malcolm L. Eddy, '47; *ME*; Burlington
Paul F. Eddy, '50; *Ag*; Hinesburg
William A. Eddy, '49; *PM*; West Hart-
ford, Conn.
Howard W. Edminster, '48; *ME*; Poultney
Norma A. Edminster, '49; *Sec*; Albany,
N. Y.
Robert E. Edminster, '50; *ME*; Poultney
Sara-Lee Edson, '47; *ELED*; Auburndale,
Mass.
George M. Edwards, '49; *Bus*; Melrose,
Mass.
Harold F. Edwards, '49; *Bus*; Burlington
Robert Ehrenbard, '47; *LA*; New York,
N. Y.
Ruth A. Ehrlich, '50; *MT*; Mt. Vernon,
N. Y.
Lenore Eichel, '47; *HE*; Brooklyn, N. Y.
Lois J. Eimer, '47; *Ch*; Jackson Hgts,
N. Y.
Frank O. Eklund, '49; *ME*; Rutland
Rodney W. Eldridge, *Sp*; Morrisville
William R. Elgood, '50; *PM*; Island Pond
Edward L. Ellis, '50; *Ag*; Castleton
George W. Ellis, '50; *EE*; South Royalton
Leo E. Ells, '50; *LA*; Burlington
Ruby M. Ellsworth, '48; *LA*; Lyndonville
Dorothy A. Elmer, '49; *LA*; No. Ben-
nington
William E. Emerson, '50; *LA*; Northfield
Joyce E. Emery, '48; *ELED*; Burlington
George M. England, '50; *Ag*; Northfield
Daniel D. Erhardt, '48; *LA*; Coram, N. Y.
Arthur W. Ericson, '50; *Ch*; Swanton
Douglas S. Ervin, '49; *PM*; Essex Jct.
Karl Erwin, '48; *Med*; Burlington
Ruth M. Erwin, '48; *HE*; Burlington
Ruth J. Esser, '48; *Ag*; Washington, D. C.
Peter F. Esteran, '50; *Med*; Barre
Bernard B. Estey, '49; *PM*; Springfield
Albert R. Evans, '49; *EE*; Essex Jct.
Richard M. Evans, '48; *LA*; Burlington
W. Stuart Evans, '47; *Bus*; Edgewater,
N. J.
Eimmett L. Fagan, '49; *LA*; Rutland
William T. Fagan, '48; *Med*; Rutland
Irene F. Fahey, '47; *LA*; Bridgeport, Conn.
Mary J. Farnham, '49; *LA*; Burlington
Rebecca J. Farnham, '47; *LA*; Morrisville
Roswell Farnham, '47; *ME*; Buffalo, N. Y.
Andrey J. Farnsworth, '48; *LA*; Barton
Gordon V. Farr, '50; *Ag*; Morrisville
Clifton D. Farrand, '48; *SED*; Hardwick
Mary T. Farrell, '50; *ELED*; Rutland
Donald S. Farrington, '50; *PM*; St. Johns-
bury
Helen E. Farrington, '49; *LA*; Burlington
Inez E. Farrow, '48; *HE*; Groton
L. Marie Farrow, '48; *HE*; Groton
Esther R. Favor, '47; *MED*; Burlington
June E. Felix, '48; *SED*; Plainfield
Leona C. Felix, '48; *LA*; Brooklyn, N. Y.
John P. Felopulos, '48; *LA*; Bennington
Joseph M. Fennell, '49; *Med*; Bridgeport,
Conn.
George B. Ferber, '50; *Ag*; Ridgewood,
N. J.

- Alta J. Ferguson, *Sp*; Poultney
 Dorothy R. Ferris, '47; *Bus*; Mt. Lakes, N. J.
 Robert P. Ferriter, '49; *Bus*; W. Springfield, Mass.
 John A. Ferwerda, '50; *Ag*; Whitinsville, Mass.
 Janet E. Fickenscher, '47; *LA*; Buffalo, N. Y.
 Norman A. Fieber, '50; *PM*; Brooklyn, N. Y.
 Stanley Fieber, '48; *Med*; Brooklyn, N. Y.
 Edith A. Field, '49; *HE*; No. Ferrisburg
 Warren J. Field, '48; *EE*; No. Ferrisburg
 Walter J. Fimian, '50; *LA*; Brattleboro
 Renée W. Finberg, '48; *LA*; Brooklyn, N. Y.
 William H. Findiesen, '50; *Ag*; No. Hero
 Carolyn E. Fisher, '50; *EEd*; Grafton
 John R. Fisher, '50; *PM*; Ridgewood, N. J.
 Lewis R. Fisher, '47; *EE*; Hardwick
 Louis Fishman, '50; *Med*; Burlington
 Barbara J. Fitts, '49; *Sec*; Barre
 H. Wendell Fitts, '50; *Bus*; Barre
 William S. Fitzgerald, '49; *ME*; Pittsfield, Mass.
 Robert Fitzsimmons, '47; *Ag*; W. Rutland
 John C. Fitzsimonds, '50; *Bus*; Jericho
 Wayne G. Flagg, '50; *EE*; Brandon
 Roger M. Flanders, '49; *CE*; St. Johnsbury
 William D. Flanders, '49; *SED*; Vergennes
 Mary J. Fleming, '48; *LA*; Stroudsburg, Penn.
 John G. Fletcher, '49; *Bus*; Burlington
 Robert E. Fletcher, '49; *LA*; Burlington
 Willard A. Fletcher, '50; *LA*; Burlington
 Francis R. Flood, '49; *EE*; Burlington
 John J. Flood, '50; *LA*; Brattleboro
 William A. Flood, '47; *Med*; N. Bennington
 Ilene Flower, '48; *LA*; Hartland Four Corners
 Joyce M. Flynn, '47; *LA*; Newton, Mass.
 Richard H. Flynn, '48; *LA*; North Adams, Mass.
 Alan C. Fogg, '50; *ME*; St. Albans
 Joseph C. Foley, '49; *Med*; Pittsford
 Richard W. Foss, '50; *LA*; Burlington
 Herbert G. Foster, '47; *Ag*; Windsor
 Grace R. Fox, '49; *NED*; Paterson, N. J.
 Roy W. Fox, '49; *ME*; Morris Plains, N. J.
 Stanley Fram, '50; *ME*; Worcester, Mass.
 Albert S. Frank, '49; *Bus*; Burlington
 Macy Frank, '47; *CE*; Burlington
 Myer Frank, '49; *PM*; Burlington
 John W. Fraser, '50; *EE*; Burlington
 Paul V. Fraser, '47; *CE*; Montpelier
 Phyllis E. Fraser, '50; *LA*; Montpelier
 Robert W. Fraser, '50; *CE*; Barre
 Dorothy E. Frazer, '47; *HE*; Long Beach, N. Y.
 Berenice E. Frechette, '49; *NED*; Burlington
 Robert W. Freeman, '49; *Bus*; Rutherford, N. J.
 Dorothy E. French, '47; *MT*; Loudonville, N. Y.
 Robert D. French, '49; *Bus*; W. Springfield, Mass.
 Russell M. French, '50; *Bus*; Windsor
 Seward F. French, '48; *NED*; Wells River
 William P. French, '50; *SED*; Wells River
 Charles A. Frenette, '49; *Bus*; Fort Ethan Allen
 Edward E. Friedman, '50; *Med*; Middlesex
 Arlene M. Fritz, '47; *LA*; Hartford, Conn.
 Catherine C. Frost, '48; *HE*; Woodstock
 Marjorie A. Fullam, '50; *SED*; Randolph Center
 Alward H. Fuller, '50; *EE*; Derby
 Robert W. Fuller, '50; *ME*; Portland, Me.
 Laurence W. Fullerton, '50; *Bus*; Windsor
 Louis S. Fusco, '49; *SED*; Rutland
 Lyndon S. Fyles, '50; *Engrg*; Orwell
 Walter A. Gage, *Sp*; *SED*; Burlington
 Edward J. Gahan, '49; *EE*; Seymour, Conn.
 Rodney G. Galbraith, '47; *Bus*; Enfield, N. H.
 Lena M. Gale, '49; *LA*; Stowe
 Noel G. Galen, '49; *Med*; New York, N. Y.
 Doris S. Galloway, '49; *PM*; Newburgh, N. Y.
 Gilbert J. Gallup, '50; *Ag*; W. Brattleboro
 John Y. Gallup, '50; *LA*; Burlington
 Adolph Garcia, '50; *Bus*; Barre
 John L. Gardner, '49; *Ch*; Burlington
 Sybil B. Gardner, '48; *LA*; Patchogue, N. Y.
 Martin F. Garey, '49; *Ag*; Boston, Mass.
 Alan R. Garfield, '49; *LA*; Springfield, Mass.

- Harold R. Garinger, '50; *Bus*; Springfield, Mass.
- James A. Garwood, '49; *SEd*; Glens Falls, N. Y.
- Charles Q. Gates, '50; *CE*; Proctor
- Eleanor J. Gates, '50; *HE*; Burlington
- Thomas E. Gates, '50; *EE*; White River Junction
- Norman O. Gauvreau, '50; *Med*; Lewiston, Me.
- Mary J. Gavel, '48; *EEd*; Montgomery Ctr.
- Olin B. Gay, '50; *Bus*; Cavendish
- Bruce A. Gaylord, '49; *Ag*; E. Randolph
- Hadley M. Gaylord, '50; *Ag*; Waitsburg
- Joan A. Gearhart, '49; *LA*; Stroudsburg, Penn.
- Emma L. Gee, '50; *SEd*; Bennington
- Glenna M. Gee, '50; *EEd*; Monkton
- Robert L. Gelineau, '50; *EE*; Burlington
- Malcolm H. Gelo, '50; *LA*; Lowell
- Maurice G. Gendron, '50; *Bus*; Barre
- Charles R. George, '50; *CE*; Burlington
- Marie I. Gerdon, '49; *LA*; Rutland
- Ellen M. Germain, '50; *PM*; Winooski
- Christian M. Gianola, '50; *Med*; Proctor
- Walter L. Giard, '50; *LA*; Bridport
- Leo P. Giardi, '48; *Med*; Hartford, Conn.
- Clifford E. Giffin, '50; *EE*; Milton
- William S. Gilbertson, '50; *Bus*; Manchester, Conn.
- Marilyn E. Gile, '47; *Sec*; Burlington
- Rita I. Gilman, '49; *LA*; Rye, N. Y.
- John G. Gilmore, '49; *LA*; Worcester, Mass.
- Melvin M. Gipstein, '47; *LA*; Hartford, Conn.
- Alice M. Giroux, '50; *MEd*; Burlington
- Robert Gittler, '49; *Med*; New York, N. Y.
- Claire S. Glass, '48; *LA*; Burlington
- John H. Gleason, '49; *Bus*; Burlington
- Eugene Glysson, '50; *CE*; Fair Haven
- Marjorie G. Goeltz, '50; *LA*; Verona, N. J.
- Edward F. Goelz, '49; *SEd*; Hollis, N. Y.
- Alfred S. Goldberg, '50; *PM*; Ludlow
- Bailey H. Goldberg, '50; *PM*; Burlington
- Emanuel Goldberg, '49; *PM*; Westwood, N. J.
- Julius L. Goldberg, '47; *Bus*; Burlington
- Judith M. Goldblatt, '47; *LA*; West York, N. Y.
- Jack Goldman, '50; *Med*; Burlington
- Stanley H. Goldman, '48; *ME*; Brooklyn, N. Y.
- Irving Goldstein, '48; *Bus*; Ellenville, N. Y.
- Mary E. Gonyow, '49; *NEd*; Essex Junction
- John W. Goodell, '49; *LA*; Wells River
- Julian J. Goodman, '48; *Med*; Boston, Mass.
- Martin Goodman, '50; *PM*; Haverhill, Mass.
- John W. Goodrich, '47; *ME*; Burlington
- Paul C. Goodrich, '50; *LA*; Wilder
- Donly C. Goodridge, '50; *CE*; Plainfield
- Elmer R. Goodspeed, '49; *ME*; Rutland
- Charles F. Gordon, '50; *Bus*; Manchester, N. H.
- Madeline L. Gordon, '49; *LA*; Williamstown
- Hugh W. Gorton, '50; *ME*; Sheldon Springs
- Robert P. Goss, '47; *MEd*; Wilder
- Joanne L. Goulart, '48; *LA*; New Bedford, Mass.
- John J. Goulet, '49; *CE*; Island Pond
- Richard F. Gowdy, '48; *Ag*; Montpelier
- Charles H. Goyette, '49; *Med*; Barre
- Roderick M. Goyette, '50; *Ag*; Barre
- Donald A. Grady, '50; *Essex Junction*
- Stanley M. Grandfield, '49; *Bus*; Barre
- Dorwin F. Grant, '49; *Bus*; Burlington
- Eric R. Graves, '49; *NEd*; Waterbury
- Bernice O. Gray, '49; *NEd*; St. Johnsbury
- William F. Gray, '49; *Cb*; Fort Ethan Allen
- Gerald H. Greemore, '49; *SEd*; Winooski
- Richard G. Green, '50; *LA*; Pittsfield, Mass.
- Barbara A. Greene, '50; *LA*; Burlington
- Marjorie L. Greene, '50; *PM*; St. Albans
- Evelyn C. Greenslet, '50; *SEd*; Bennington
- Roger F. Greenslet, '49; *PM*; Bennington
- Jean E. Greer, '49; *NEd*; Bayside, N. Y.
- Harriet B. Gregory, '50; *CT*; Morrisville
- Beverley Grier, '48; *LA*; Birmingham, Mich.
- George R. Griffin, '50; *Bus*; Bellows Falls
- Milton H. Griffin, '50; *SEd*; St. Albans
- Paul E. Griffin, '48; *Med*; Herkimer, N. Y.

- Diana L. Griffis, '48; *EEd*; Vergennes
 Delbert D. Griffith, '50; *PM*; Bristol
 Eleanor T. Griffith, '49; *Sec*; Jonesville
 Perley J. Griswold, '47; *SEd*; Johnson
 Marion J. Grody, '48; *Bus*; West Hartford, Conn.
 Barbara R. Grout, '47; *LA*; Morristown, N. J.
 Irving H. Grout, '50; *CE*; East Arlington
 Margery L. Grout, '49; *NEd*; Springfield, Mass.
 Elizabeth W. Grow, '49; *LA*; Essex Junction
 Karl K. Grubaugh, '50; *Med*; Burlington
 Edward T. Guimonds, '50; *NEd*; Rutland
 Donald A. Guinan, '48; *Med*; Northampton, Mass.
 Robert S. Guinn, '50; *LA*; Northfield
 John B. Guinness, '49; *Bus*; Rutland
 Audrey E. Gutterson, '48; *EEd*; Ryegate
 Theresa J. Guzowski, '48; *PM*; Florence, Mass.
 Joyce P. Hackett, '50; *GT*; Derby Line
 Sarah A. Hackett, '48; *LA*; Gloucester, Mass.
 Dorcas E. Hadwen, '49; *EEd*; Bennington
 Nancy Hafely, '49; *LA*; Brooklyn, N. Y.
 David J. Hagar, '49; *PM*; Burlington
 Mary E. Hageman, '48; *HE*; Verona, N. J.
 Tobin Haggerty, *Sp*; Richford
 Ruth A. Haigh, '48; *LA*; Burlington
 Alfred A. Haikara, '50; *LA*; Bethel
 Dean M. Hale, '49; *LA*; Windsor
 Frederick A. Hale, '50; *Bus*; East Ryegate
 Marjorie A. Hale, '47; *LA*; Newbury
 Priscilla S. Hale, '50; *LA*; Montpelier
 Warren K. Hale, '50; *ME*; East Ryegate
 Beverly M. Hall, '48; *LA*; Burlington
 Edward O. Hall, '50; *Engrg*; Burlington
 Marshall H. Hall, '50; *Bus*; Canaan
 Richard M. Hall, '48; *Ag*; Maplewood, N. J.
 Robert A. Hall, '49; *ME*; Burlington
 Robert B. Hamel, '50; *Engrg*; S. Ryegate
 Virginia L. Hamel, '48; *LA*; S. Ryegate
 Barbara A. Hamilton, *Uncl*; Burlington
 Jean B. Hamilton, '47; *LA*; S. Ryegate
 John A. Hamilton, '48; *LA*; Burlington
 Guy A. Hamlin, '48; *LA*; Brushton, N. Y.
 John E. Hancock, '49; *Ag*; East Hardwick
 Carol R. Handel, '50; *LA*; South Orange, N. J.
 James W. Hannon, '50; *Bus*; Morrisville.
 Dorothy M. Hansen, '47; *LA*; Northfield
 Jacqueline J. Hardgrove, '48; *HE*; Washington, D. C.
 David S. Harlow, '48; *LA*; South Royalton
 Clayton J. Harmon, '50; *PM*; St. Albans
 Richard D. Harper, '48; *LA*; Albany, N. Y.
 Fred A. Harrington, '48; *PM*; Rutland
 John B. Harrington, '49; *Bus*; Burlington
 Robert N. Harrington, '49; *PM*; Cold Spring-on-Hudson, N. Y.
 Margaret J. Harris, '49; *LA*; Bristol, Conn.
 Earl J. Hartigan, '49; *Bus*; Burlington
 Leonard H. Hartley, '49; *Cb*; Fort Ethan Allen
 Helen L. Harvey, '50; *EEd*; Rochester
 Sylvester T. Harvey, '48; *Ag*; Burlington
 Philip R. Hastings, '50; *Med*; Bradford
 Raymond K. Hastings, '50; *ME*; North Springfield
 Reginald A. Hatch, '49; *LA*; Chester
 Kathleen M. Haus, '47; *LA*; Brattleboro
 Stuart F. Haven, '49; *ME*; Vergennes
 Clifton Havens, '49; *CE*; Burlington
 Esther L. Havens, '50; *HE*; Burlington
 Everett W. Havens, '49; *Engrg*; Burlington
 Fay L. Hawkins, '49; *LA*; Tupper Lake, N. Y.
 John V. Hawley, *Sp*; Swanton
 Robert B. Hawley, '49; *Bus*; Keene, N. H.
 Cornelius G. Hayes, '50; *Bus*; St. Johnsbury
 Mary C. Hayes, '47; *LA*; Bellows Falls
 Walter H. Hayes, '48; *LA*; Rutland
 Elizabeth K. Hazelton, '50; *NEd*; Rutherford, N. J.
 Arthur A. Heald, '49; *LA*; St. Albans
 Frances C. Headley, '49; *LA*; Baskins Ridge, N. J.
 Raymond G. Heath, '50; *EE*; Barton
 Roslyn Hecker, '48; *LA*; Springfield, Mass.
 Frank Hedrich, '46; *LA*; Union City, N. J.
 Esther R. Hellerman, '47; *LA*; Brooklyn, N. Y.
 Frank W. Hendee, '48; *ME*; Burlington

- George H. Henderson, '48; *Bus*; Pittsfield, Mass.
- Mary J. Henderson, '49; *HE*; Birmingham, Mich.
- William F. Hennessey, '49; *LA*; Bridgeport, Conn.
- Paul W. Henry, '49; *SED*; Fayston
- Palmira Herbozo, '49; *ELED*; Barre
- Philip H. Hersey, '48; *Bus*; Burlington
- Raymond D. Higgins, '48; *Med*; Danbyville, Me.
- Aquilino B. Higuera, '49; *LA*; Montpelier
- Jane C. Hill, '50; *PM*; Dumont, N. J.
- Wilfred G. Hill, '48; *ME*; Chester
- Beverly M. Hillmann, '49; *LA*; Brandon
- Philip J. Hincks, '48; *LA*; Middlebury
- Leon A. Hitchcock, '50; *SED*; Windsor
- Walter K. Hjelhm, *Sp*; Johnson
- Dorothy J. Hoag, '48; *NED*; Burlington
- John W. Hoag, '49; *EE*; Rutland
- Randall W. Hoffmann, *Sp*; Burlington
- Doris L. Hoffnagle, '49; *LA*; Glens Falls, N. Y.
- William E. Hogan, '48; *Bus*; Woburn, Mass.
- Arthur Hogel, '50; *EE*; Bennington
- Thomas M. Holcomb, '47; *Med*; Burlington
- George J. Holden, '47; *EE*; Burlington
- Marilyn Holden, '47; *MED*; New Haven
- Thomas S. Holden, '50; *LA*; Burlington
- Dorothy M. Hollender, '47; *ELED*; Metuchen, N. J.
- Margaret A. Holloway, '47; *LA*; Snow Hill, Md.
- Doris L. Holmberg, '48; *LA*; New Rochelle, N. Y.
- Robert B. Holme, '49; *PM*; Yonkers, N. Y.
- Roger W. Holmes, '49; *EE*; Johnson
- Alice J. Hooper, '50; *ME*; Burlington
- Lloyd M. Horlick, '48; *Med*; Everett, Mass.
- John M. Hoskiewicz, '50; *SED*; Springfield
- Richard E. Hotchkiss, '49; *Cb*; Montpelier
- John W. Hough, '50; *Ag*; Danville
- Verle R. Houghaboom, '47; Orleans
- LeRoy S. House, '50; *Bus*; Onconota, N. Y.
- E. Sayles Householder, '47; *LA*; Shelburne
- Neal J. Houston, '49; *SED*; Barre
- Roland E. Hovey, '50; *PM*; Derby Line
- Joanne Howard, '48; *LA*; Eggertsville, N. Y.
- John W. Howard, '49; *LA*; Bellows Falls
- Luke A. Howe, '49; *LA*; Tunbridge
- Nancy Howe, '50; *LA*; Burlington
- Harold R. Howes, '49; *ME*; Waterbury Center
- Maurice H. Howes, '49; *CE*; South Canaan
- Ehrick D. Howland, '50; *Bus*; Woodstock
- Jeanne L. Howland, '48; *SED*; Brandon
- Loretta A. Howrigan, '50; *LA*; Fairfield
- Rose H. Howrigan, '49; *ELED*; Fairfield
- Robert J. Hoyt, '49; *LA*; Underhill Ctr.
- Edwin J. Hryckiewicz, '50; *Uncl*; Springfield
- Irene I. Hsu, '49; *Med*; Shanghai, China
- Robert H. Hubbell, '50; *Ag*; Enosburg Falls
- John H. Hudson, '50; *LA*; Montpelier
- John E. Huffman, '49; *Bus*; Fairmont, W. Va.
- Robert A. Humphrey, '47; *ME*; Needham, Mass.
- Donald W. Humphreys, '47; *Med*; Bennington
- Roderick J. Humphreys, '48; *Med*; Bennington
- Merrill C. Hungerford, '50; *Bus*; St. Albans
- Herbert G. Hunt, '50; *Ag*; South Barre
- Mitchell J. Hunt, '49; *LA*; Burlington
- Paul H. Hunt, '49; *CE*; Burlington
- Ray F. Hunt, '50; *EE*; Wells River
- Carroll F. Huntington, '50; *EE*; Burlington
- Robert N. Hunziker, '48; *PM*; Stratford, Conn.
- Robert J. Hunziker, '48; *PM*; Poultney
- Jean A. Hurlburt, '50; *LA*; New Haven
- John P. Hurley, '50; *Ag*; Morristown, N. J.
- Julia L. Hurley, '48; *LA*; Spring Valley, N. Y.
- Eleanor Hurwitz, '48; *Cb*; Chelsea, Mass.
- Audrey J. Hutchins, '48; *LA*; Malone, N. Y.
- Barbara A. Hutchins, '49; *LA*; Reading, Mass.
- Barbara B. Hutchins, '48; *HE*; Union, Me.
- Cora A. Hutchins, *Sp*; Burlington

Clinton C. Hutchinson, '50; *PM*; Burlington

Robert C. Ianni, '50; *PM*; Rutland

Jean E. Ichter, '48; *NED*; Burlington

Anne G. Illingworth, '49; *MED*; Bellows Falls

Peggy Ingalls, '49; *LA*; Bar Harbor, Me.

Thomas R. Ingram, '49; *LA*; Barre

Wilmot W. Irish, '49; *Ag*; Shelburne

Alyce C. Isaacsen, *Sp*; Burlington

Lillian M. Iversen, *Sp*; Burlington

Crystal Jackson, '49; *ELED*; Richmond

Madelaine A. Jackson, '49; *LA*; Great Neck, N. Y.

Burton E. Jacobs, '50; *Ch*; Bristol

Evelyn M. Jacobs, '49; *LA*; Newark, N. J.

Lou D. Jacobs, '50; *MT*; White River Junction

Winston R. Jacobs, '49; *LA*; Brattleboro

Millicent E. James, '49; *LA*; Middlebury

Ruth D. Jandorek, '47; *LA*; Brooklyn, N. Y.

Joel T. Janvier, '50; *Med*; Mariposa, Calif.

Burton E. Jaques, '50; *Bus*; Burlington

Lorraine A. Jaques, '47; *HE*; Huntington

David S. Jareckie, '49; *LA*; Ely

Edward W. Jenkins, '48; *PM*; Burlington

Friend H. Jenkins, '50; *Ag*; Hardwick

Joan M. Jenkins, '49; *LA*; Burlington

Lois J. Jenkins, '49; *Sec*; East Ryegate

Stearns R. Jenkins, '48; *ME*; Hardwick

Margaret P. Jenne, '50; *LA*; Richmond

Barbara A. Jensen, '50; *LA*; West Hartford, Conn.

Gerald J. Jerry, '50; *Med*; Winooski

Roger T. Jette, '50; *ME*; Swanton

Daniel W. Johnson, '49; *LA*; San Francisco, Calif.

Elise D. Johnson, '49; *Sec*; Westfield, N. J.

Mildred E. Johnson, '50; *Ch*; Verona, N. J.

Oscar B. Johnson, '50; *Ag*; Brattleboro

Philip H. Johnson, '49; *LA*; Wellesley, Mass.

Priscilla S. Johnson, '49; *LA*; So. Attleboro, Mass.

Albert A. Johnston, '50; *Bus*; Brookline, Mass.

Hazel R. Johnston, '50; *MED*; Ludlow

Jocelyn L. Johnston, '49; *HE*; New York, N. Y.

Kenneth C. Jolivet, '50; *PM*; Bennington

Allen T. Jones, *Sp*; Morrisville

Charles W. Jones, '49; *Ag*; Burlington

Doris E. Jones, '50; *LA*; N. Bennington

Edwin F. Jones, '48; *Med*; Oakland, Calif.

Howard G. Jones, '49; *EE*; Swanton

Llewellyn M., Jones, '50; *Med*; Swanton

Nancy C. Jones, '50; *LA*; New York, N. Y.

Patricia M. Jones, '48; *ELED*; Winchendon, Mass.

Robert K. Jones, '50; *Ag*; Warren

Wallace D. Jones, '47; *LA*; Meriden, N. H.

Warren L. Jones, '49; *LA*; North Bennington

Winnifred E. Jones, *Sp*; Burlington

Louise H. Jordan, '47; *LA*; Burlington

Ursula E. Jordan, '50; *LA*; Burlington

Priscilla S. Joslin, '47; *ELED*; Waitsfield

Mary H. Joslyn, '48; *LA*; Orleans

Mildred L. Joslyn, '50; *PM*; Waitsfield

Ann E. Joy, '49; *MT*; Waterbury, Conn.

Mark I. Jurras, '49; *Bus*; Montpelier

Lenore Kahane, '47; *LA*; Forest Hills, N. Y.

Donald F. Kane, '50; *ME*; West Haven, Conn.

Bernard J. Kaplan, '49; *Med*; Hartford, Conn.

Pauline Kartalos, '47; *LA*; Clinton, Mass.

Milton Kaufman, '47; *Med*; Mountandale, N. Y.

Richard Kaufman, '47; *LA*; Pittsfield, Mass.

Stanley L. Kaufman, '48; *Bus*; Burlington

Adel S. Kaye, '49; *HE*; Newton Center, Mass.

Bernard Kaye, '47; *Med*; Brandon

Marguerite E. Kebrek, '49; *NED*; Bristol, R. I.

Rita C. Keefe, '48; *ELED*; Barre

Leah M. Keever, '47; *LA*; Auburndale, Mass.

Charles W. Kehoe, '50; *EE*; Bennington

Ralph P. Kehoe, '50; *SED*; Rutland

Carolyn E. Kelley, '48; *SED*; Wallingford

Carol A. Kellogg, '50; *Sec*; Richmond

Charles P. Kempter, '49; *Ch*; Burlington

Rudolph H. Kempter, '47; *ME*; Burlington

Donald R. Kendall, '48; *ME*; Woodstock

David S. Kenet, '47; *Med*; Springfield

James C. Kennedy, '50; *LA*; Wallingford

- Robert E. Kennison, '50; *ME*; St. Johnsbury
- Robert W. Ker, '49; *LA*; Waterbury, Conn.
- Charles E. Ketcham, '49; *CE*; Wallingford
- Russell P. Ketcham, '49; *Bus*; Stowe
- Florence A. Keyes, '47; *ElEd*; Fitchburg, Mass.
- Katherine A. Kidder, '50; *LA*; Burlington
- Louise B. Kiely, '49; *LA*; Union City, Conn.
- Reginald G. Kierstead, '49; *Bus*; Lebanon, N. H.
- Constance L. Killary, '49; *NEd*; Burlington
- Janet M. Killary, '49; *PM*; Burlington
- Lawrence F. Killick, '47; *SED*; Burlington
- Cecil H. Kimball, '48; *Med*; Burlington
- Paul R. Kimball, '50; *LA*; Barton
- Atkins H. King, '50; *EE*; Brattleboro
- Frederick W. King, '50; *PM*; Fairfax
- Jane E. King, '49; *LA*; Montpelier
- Kathryn E. King, '49; *LA*; Rutland
- Stanley A. King, '49; *Ch*; Burlington
- Rachel E. Kinne, '49; *HE*; Newport Center
- Richard G. Kinsler, '50; *LA*; Springfield, Mass.
- Perry J. Kinsley, '49; *SED*; Jericho
- Betsy E. Kipp, '47; *LA*; Orleans
- Howard W. Kirk, '49; *Bus*; Bloomfield, N. J.
- Priscilla A. Klain, '48; *ElEd*; Stelton, N. J.
- Francis A. Klimaszewski, '50; *PM*; Ansonia, Conn.
- Stanley A. Knapp, '50; *Ag*; Brookline, Mass.
- Stanley G. Knapp, '49; *LA*; Montpelier
- Elizabeth A. Kneen, '49; *PM*; Burlington
- Donald L. Knouse, '50; *LA*; Norwich, Conn.
- Theodore A. Koch, *Sp*; Schenectady, N. Y.
- Mary B. Kohl, '49; *NEd*; Hackensack, N. J.
- Helen M. Korpi, '47; *ElEd*; Jamaica
- Edward A. Kotlarczyk, '50; *SED*; Detroit, Mich.
- Nina Koureshoff, '50; *Med*; New York, N. Y.
- Alan J. Kraft, '48; *LA*; Forest Hills, N. Y.
- Reginald F. Krause, *Sp*; Burlington
- Donald S. Kregulka, '50; *LA*; Windsor
- Louis M. Krewet, '50; *Ch*; Fort Ethan Allen
- Harriet J. Krivit, '50; *LA*; Jersey City, N. J.
- Jacob M. Krolfeld, '50; *Bus*; Morrisville
- John G. Kubin, '50; *PM*; Fair Haven
- Mary E. Kurue, '47; *MT*; Bridgeport, Conn.
- Angelo L. LaBate, '49; *LA*; Poultney
- John LaBate, '48; *LA*; Poultney
- Nancy Ladd, '47; *ElEd*; Belmont, Mass.
- Parker B. Ladd, '50; *LA*; Hardwick
- Edmond P. Lafko, '50; *EE*; Springfield
- Lawrence E. LaFlamme, '50; *EE*; Bennington
- Anthony C. Lague, '50; *Bus*; Newport
- Elton B. Lahar, '49; *Med*; Burlington
- Paul G. LaHaye, '49; *ME*; Montreal, P. Q., Canada
- Leopold Laliberte, '49; *EE*; Burlington
- Lucien E. Lambert, '50; *SED*; Orleans
- Richard J. Lamere, '50; *LA*; Ludlow
- John G. Landry, '50; *Bus*; Burlington
- Edward J. Lane, '50; *ME*; Charlotte
- Joyce H. Lane, '50; *CT*; Barre
- William C. Lane, '49; *EE*; Chester Depot
- William T. Lane, '47; *LA*; Burlington
- Arthur Langer, '50; *PM*; Brooklyn, N. Y.
- Lorraine Lanouette, '49; *LA*; North Hollywood, Calif.
- John C. Lantman, '47; *PM*; Hinesburg
- Thomas F. LaPenna, '50; *EE*; Rutland
- Marie J. Lapierre, '48; *LA*; Easthampton, Mass.
- Ralph R. Lapointe, '48; *LA*; Winoski
- Amelia L. LaRose, '48; *ElEd*; Burlington
- Barbara L. Larrabee, '50; *LA*; Shoreham
- Margaret B. Larrabee, '48; *LA*; Hardwick
- Wallace D. Lash, '50; *Bus*; Burlington
- Christabel E. Latham, '47; *LA*; Milton
- Emerson C. Lathe, '50; *PM*; Derby
- Kathleen E. Laughlin, '49; *CE*; Granby, Conn.
- Clyde J. Lavine, '50; *JHED*; Ludlow
- Arthur G. Law, '49; *Med*; Washington, D. C.
- Marie E. Lawlor, '48; *LA*; Burlington
- Peggy A. Lawlor, '49; *LA*; Burlington
- Allan K. Lawrence, '50; *EE*; Morrisville
- Alvan J. Lawrence, *Ag*; Morrisville

- William J. Lawrence, '50; *PM*; Hartford
 James C. Lawyer, '49; *Ag*; Richford
 John C. Leak, '49; *Cb*; Baltimore, Md.
 Marilyn A. Leathers, '48; *LA*; Nashua,
 N. H.
 Bernard W. Leavitt, '50; *ME*; Bradford
 Carol S. Leavitt, '49; *LA*; Brooklyn, N. Y.
 John A. LeBoeuf, *Sp*; Rouses Point, N. Y.
 William J. Lederman, '49; *LA*; Everett,
 Mass.
 Jacqueline M. LeMay, '47; *LA*; Burlington
 John Leo, '50; *LA*; Winoski
 Robert S. Leonard, '50; *Bus*; Brandon
 R. Margarida LeSueur, '49; *LA*; South
 Portland, Me.
 Harriet L. Levenson, '48; *CT*; Stamford,
 Conn.
 Joan R. Levin, '47; *LA*; Newark, N. J.
 Morris J. Levin, '50; *EE*; Burlington
 Gladys A. Levine, '47; *LA*; CosCob, Conn.
 Harry P. Levine, '50; *Med*; Fort Ethan
 Allen
 Julian Levine, '46; *Med*; Burlington
 Ruth E. Levine, '50; *LA*; Palisade, N. J.
 Vivian S. Levine, '50; *ElEd*; Burlington
 Betty-Rose Levy, '48; *LA*; New York,
 N. Y.
 Lionel Lewis, '48; *PM*; Far Rockaway,
 N. Y.
 Marion R. Lewis, '47; *ElEd*; Woodstock
 Ruth V. Lewis, '49; *LA*; Hastings-on-
 Hudson, N. Y.
 Charles F. Lewkowicz, '49; *SED*; Bellows
 Falls
 Kenneth J. Liggett, '49; *Ag*; Lyndonville
 Robert W. Linehan, '47; *Med*; Glens Falls,
 N. Y.
 Doris J. Lindecrantz, '47; *HE*; Worcester,
 Mass.
 George H. Lines, '49; *ME*; Burlington
 Oscar C. Linke, '50; *Bus*; East Arlington
 Francis R. Linsenmeir, '50; *Bus*; Burling-
 ton
 Bernard R. Lippman, '48; *Bus*; Plainfield,
 N. J.
 Douglas L. Liston, '48; *EE*; Burlington
 Ronald A. Liston, '49; *Engrg*; Burlington
 Theresa P. Lister, '49; *SED*; North Pownal
 Farnham Little, '49; *LA*; Forest Hills,
 N. Y.
 Frank H. Livak, '47; *Bus*; Richmond
 Hammond L. Livingston, '49; *LA*; St. Al-
 bans
 Stephen L. Lobdell, '50; *LA*; Hartland
 Maurice E. Logan, '50; *PM*; St. Johnsbury
 James A. Long, '48; *Med*; Bristol
 Richard S. Long, '49; *Bus*; Saratoga Sprgs.,
 N. Y.
 William A. Long, '50; *LA*; Rutland
 Yolanda A. Lopardo, '49; *LA*; North
 Adams, Mass.
 William H. Love, '50; *Ag*; Dallas, Pa.
 Lucille O. Lovejoy, '50; *HE*; Springfield
 Aldis S. Lovell, '49; *ElEd*; Bellows Falls
 Dorothy A. Lowell, '48; *LA*; Berlin, Conn.
 Albert B. Lowenfels, '48; *LA*; White
 Plains, N. Y.
 Harry F. Loyzelle, '50; *LA*; Fryeburg, Me.
 Paul R. Lucas, '50; *PM*; Island Pond
 Richard A. Lucas, '49; *Bus*; Springfield,
 Mass.
 Frederick L. Luce, '49; *LA*; Waterbury
 Lawrence F. Lumbra, '49; *Bus*; St. Johns-
 bury
 Anne T. Lundergan, '48; *LA*; Bennington
 Carl F. Lunstrom, '50; *LA*; Little Falls,
 N. Y.
 Robert P. Lunna, '49; *LA*; Newport Cen-
 ter
 Laurence Lyerly, '49; *Bus*; Williamsport,
 Pa.
 David F. Lyman, '50; *Ag*; Hinesburg
 Hilda G. Lyndes, '50; *Ag*; Plainfield
 Howard H. Lyon, '49; *Ag*; Morrisville
 Gerald R. Lyons, '50; *LA*; Burlington
 Elizabeth A. Mack, '49; *LA*; Chappaqua,
 N. Y.
 Percy A. Mack, '50; *CE*; Middlebury
 Robert S. Mackey, '50; *Bus*; Plattsburgh,
 N. Y.
 Richard W. Macomber, '50; *CE*; Grand
 Isle
 Barbara T. Magee, '48; *LA*; Sagaponack,
 N. Y.
 Frances E. Magee, '49; *NEd*; Richmond
 Gloria I. Magill, '49; *SED*; St. Johnsbury
 Leon R. Magnant, '49; *CE*; Franklin
 Robert A. Magoon, '49; *LA*; Morrisville
 Luis N. Mallea, '50; *Bus*; South Nampa,
 Ida.
 Peter S. Mallett, '47; *LA*; Winsted, Conn.
 Donald W. Malloy, '49; *Bus*; Burlington
 Patricia F. Malmquist, '49; *PM*; Post Mills

- Crystal E. Malone, '47; *Sec*; Washington, D. C.
- John Malone, '49; *Med*; New Britain, Conn.
- Morris J. Manchester, '50; *ME*; St. Albans
- Millicent C. Mandel, '47; *LA*; Port Chester, N. Y.
- Richard C. Manjoney, '50; *Med*; Bridgeport, Conn.
- Vincent A. Manjoney, '47; *Med*; Bridgeport, Conn.
- M. Gretchen Manning, '47; *LA*; Lynn, Mass.
- Serge H. Mansfield, '50; *Bus*; Winooski
- Donald Marburg, '48; *Bus*; Montclair, N. J.
- Maxine L. Margolis, '48; *LA*; Waterbury, Conn.
- Rose Margolis, '47; *Eled*; Burlington
- Joan S. Marker, '49; *LA*; Upper Montclair, N. J.
- Robert J. Maroney, '50; *SED*; Winooski
- Michael G. Marra, '48; *Med*; Burlington
- Richard H. Marsh, '48; *SED*; Rockland, Me.
- Winifred Marsh, '47; *LA*; Burlington
- Carlton D. Marshall, '49; *Med*; Orleans
- Leland S. Marshall, '48; *ME*; Taftsville
- Catherine J. Martel, '49; *JHed*; Burlington
- Brewster D. Martin, '49; *PM*; Pittsfield
- Hollister E. Martin, '50; *Bus*; Pittsfield
- Russell K. Martin, '49; *Bus*; Springfield
- Joyce M. Marx, '48; *PM*; Burlington
- Richard P. Mascolo, '49; *PM*; St. Albans, N. Y.
- Michael A. Maslack, '50; *Engrg*; Poultney
- Ruth C. Mason, '49; *HE*; Lyndon Center
- Walter F. Mason, '50; *Engrg*; Brooklyn, N. Y.
- Marie C. Matthews, '49; *HE*; Great Neck, N. Y.
- William R. Matthews, '49; *LA*; Rutland
- Thomas F. Maudsiff, *Sp*; Stowe
- Harold A. Mayforth, Jr., '49; *Engrg*; Burlington
- Nancy Mayforth, '49; *HE*; Burlington
- Louise M. Maynard, '50; *LA*; Chester
- James H. Maynes, '49; *CE*; Woodstock
- Edgar H. Mayo, '50; *LA*; Northfield
- Philip W. Mayo, '47; *Med*; Rutland
- Walter L. Mazan, '49; *Bus*; Center Rutland
- Mary D. McBratney, '49; *MT*; Verona, N. J.
- Arthur J. McCann, '50; *Bus*; Lyndonville
- Virgil L. McCarty, '50; *LA*; Underhill
- Patrick F. McCormack, '49; *Med*; West Rutland
- Gerald J. McCormick, '49; *Ch*; St. Johnsbury
- Stewart C. McCracken, '50; *PM*; Springfield, Mass.
- John J. McCutcheon, '49; *Med*; Shelburne Center
- George A. MacDonald, '50; *LA*; South Ryegate
- Doris C. MacDonald, '48; *LA*; Barre
- Murdo G. MacDonald, '48; *PM*; South Ryegate
- John L. McDonald, '50; *EE*; Burlington
- Burton MacDougal, '50; *Bus*; Brooklyn, N. Y.
- Walter H. McGarey, '50; *Bus*; St. Albans
- Rita C. McGarry, '47; *HE*; Proctor
- Thomas M. McGarry, '48; *PM*; Rutland
- Frederick J. McGee, '50; *ME*; Burlington
- Norman J. McGeoch, '49; *LA*; Brighton, Mass.
- Richard C. McGill, '50; *LA*; St. Johnsbury
- Edward H. McGinnis, '50; *Bus*; Springfield, Mass.
- Patricia A. McGinnis, '49; *LA*; Brattleboro
- Gerald F. McGinniss, '50; *Med*; Bellows Falls
- Mary E. McGrath, '50; *SED*; Burlington
- John W. McHugo, '48; *Bus*; Barre
- William J. McIntyre, '50; *LA*; North Bennington
- Edwin R. McKee, '50; *Bus*; Burlington
- Edith E. McLaren, '47; *Sec*; Balboa, Canal Zone
- Duncan McLaren, '49; *Ag*; East Ryegate
- Helen J. MacLaughlin, '50; *MED*; Burlington
- Darrow R. McLeod, '50; *ME*; Barre
- Arthur W. McMahan, '49; *Med*; Portsmouth, N. H.
- Thomas W. MacMinn, '50; *Bus*; Montpelier

- Alice M. McNamara, '48; *LA*; Springfield, Mass.
- Harry C. McNamara, '47; *Med*; Valatie, N. Y.
- Iain R. MacNeil, '50; *LA*; Marlboro
- Jane F. McNeil, '50; *Med*; Beacon, N. Y.
- Mildred N. McNeilly, '50; *MT*; Bennington
- James C. McNulty, '50; *ME*; Proctorsville
- Donald J. MacPherson, '48; *Med*; Lynn, Mass.
- Floyd O. McPhetres, '50; *LA*; Randolph Center
- Donald R. McRell, '47; *LA*; Pittsfield, Mass.
- Edward D. McSweeney, '50; *PM*; Burlington
- Marion R. MacTiernan, '50; *LA*; Burlington
- Alberta A. Mead, *Sp*; Hoschton, Ga.
- Kathryn A. Mears, '50; *MT*; Marshfield
- Raeburn H. Medlar, '49; *CE*; Burlington
- Daniel J. Meegan, '50; *SEd*; Burlington
- Emerson J. Melaven, '50; *LA*; Milton
- John E. Mellin, '49; *ME*; Schenectady, N. Y.
- Corrine A. Menard, '50; *LA*; Springfield
- Leonard S. Mercia, '50; *Ag*; Morrisville
- Carolyn N. Merriam, '49; *LA*; Rochester
- Richard S. Merriam, '48; *LA*; Rochester
- Eloise H. Merrill, '50; *LA*; Ludlow
- Everett P. Merrill, '48; *Ag*; Craftsbury
- Richard F. Merrill, '49; *Bus*; Burlington
- Stanley R. Merritt, '49; *PM*; Rutland
- Sara J. Merwin, '47; *Sec*; Rutherford, N. J.
- Albert C. Metcalf, '48; *LA*; Burlington
- Neil F. Meurlin, '50; *Bus*; Essex Junction
- Edwin D. Meyers, '48; *Med*; Manchester
- William Meyers, '48; *PM*; Lake Placid, N. Y.
- Joan C. Meyn, '49; *LA*; Pleasantville, N. Y.
- Leon E. Michaud, '49; *PM*; Old Town, Me.
- Raymond J. Michaud, '49; *EE*; Burlington
- Malcom A. Micklar, '49; *Bus*; Providence, R. I.
- Harry Miele, '49; *LA*; Randolph
- Lorraine Miles, '50; *MT*; Towson, Md.
- Audrey E. Miller, '48; *LA*; Burlington
- Charles F. Miller, '50; *Med*; Proctor
- Frederick W. Miller, '47; *Ag*; Burlington
- Ian P. F. Miller, '49; *Bus*; Hanover, N. H.
- Mildred L. Miller, '49; *LA*; Burlington
- Bruce A. Milligan, '48; *Bus*; Windsor
- Deane L. Milligan, '49; *ME*; Windsor
- John R. Milligan, '49; *Engrg*; Ludlow
- Ruth W. Millington, '48; *ME*; Burlington
- Ruth W. Millington, *Sp*; Burlington
- Elizabeth M. Mills, '50; *LA*; Burlington
- Marilyn Mills, '48; *LA*; West Hartford, Conn.
- Samuel D. Mills, '50; *LA*; Littleton, N. H.
- LeRoy C. Milner, '47; *SEd*; Winooski
- Donald J. Miner, '50; *Ch*; St. Albans
- Harry V. Mitchell, '50; *Engrg*; Burlington
- Mary E. Mitiguy, '47; *Sec*; Burlington
- Stuart R. Moffitt, '50; *LA*; Fayetteville, N. C.
- Joanne Mollica, '50; *MT*; St. Johnsbury
- Eileen T. Molloy, '50; *EIEd*; South Dorset
- Andrew C. Mongeon, '48; *ME*; Winooski
- Danny D. Monieson, '49; *LA*; Outremont, P. Q., Canada
- Julia E. Montgomery, '48; *LA*; Morrisville
- William W. Montgomery, '47; *Med*; West Rutland
- Betty A. Moodie, '49; *HE*; Huntington, N. Y.
- Edward F. Moore, '50; *LA*; Plymouth Union
- Deane R. Moore, '49; *Bus*; Glens Falls, N. Y.
- Harold L. Moore, '49; *CE*; Derby Line
- Charles C. Moran, '50; *ME*; Keeseville, N. Y.
- L. A. Moreau, '50; *Med*; Taunton, Mass.
- Mervyn T. Morgan, '50; *Bus*; Burlington
- James P. Moriarty, '47; *Med*; Springfield, Mass.
- Robert J. Moriarty, '50; *Med*; Burlington
- Robert M. Morin, '50; *PM*; Springfield
- Mary E. Morrill, '49; *LA*; Augusta, Me.
- John R. Morris, '48; *Med*; Youngstown, O.
- Olive Morris, '50; *Med*; Poultney
- Robert E. Morris, '50; *LA*; Bennington
- Robert E. Morrison, '50; *CE*; Milford, Conn.
- Sylvia Morrison, '50; *CT*; Burlington
- Clyde R. Morron, '47; *Med*; Rutland
- John H. Morton, '50; *Sp*; Portland, Me.

- George A. Morwood, '50; *ME*; Winooski
 Maurice D. Mosher, '49; *Engrg*; Newport
 Carlos R. Moulton, '48; *PM*; Beverly, Mass.
 Merle J. Moulton, '48; *EIE*; Shelburne
 Frank W. Mowry, '49; *CE*; Oneida, N. Y.
 Ernest J. Muccini, '50; *CE*; East Elmhurst, N. Y.
 Robert H. Mucha, '47; *LA*; Elizabeth, N. J.
 Florence A. Mueller, '48; *HE*; Great Neck, L. I., N. Y.
 Claire R. Muldoon, '48; *CT*; St. Albans
 Robert J. Mulligan, '50; *Engrg*; Middlebury
 Roger B. Mullins, '49; *LA*; Danbury, Conn.
 Donald D. Murphy, '49; *Bus*; Bellows Falls
 William F. Murphy, '49; *CE*; Burlington
 Wilma H. Murphy, '49; *EIE*; Burlington
 Ronald H. Neal, '47; *Med*; Laconia, N. H.
 James R. Neary, '47; *Med*; Burlington
 Gerald N. Needleman, '50; *PM*; Bennington
 Gladys E. Neiburg, '49; *LA*; St. Albans
 Robert I. Neiburg, '49; *EE*; St. Albans
 Charlotte L. Nelson, '50; *LA*; East Burke
 F. Alan Nelson, '48; *Bus*; Hamden, Conn.
 Marion F. Nelson, '47; *ME*; Montpelier
 Marjorie L. Nelson, '47; *LA*; Woodstock
 Robert W. Nelson, '49; *Bus*; Cromwell, Conn.
 Barbara J. Newlander, '48; *HE*; Burlington
 Clarence E. Newton, '49; *LA*; Burlington
 Wymond S. Newton, '50; *EE*; St. Albans
 Aileen M. Nichols, '48; *HE*; Albany, N. Y.
 Guy W. Nichols, '47; *CE*; Winooski
 Alfred P. Niemann, '50; *LA*; Queens Village, N. Y.
 Charles A. Niles, '50; *LA*; Williston
 Richard F. Nims, '49; *Bus*; Springfield, Mass.
 Brian E. Nolan, '48; *Med*; Newton Highlands, Mass.
 Robert K. Nolan, '47; *Med*; Norwich, Conn.
 Bernard F. Nolin, '49; *CE*; Jericho
 Mildred E. Norrie, '48; *CT*; Barre
 Maynard J. North, '50; *LA*; Port Huron, Mich.
 George H. Northrop, '50; *SED*; St. Albans
 Elizabeth A. Norton, '50; *EIE*; Vergennes
 Robert L. Norton, '47; *LA*; New York, N. Y.
 Elbert D. Nostrand, '50; *CB*; Burlington
 James E. Nowlin, *Sp*; Burlington
 Dorothy A. Nye, '49; *EIE*; Burlington
 Ellis O'Brien, *Sp*; Burlington
 Jane T. O'Brien, '49; *Med*; North Walpole, N. H.
 Thomas H. O'Brien, '50; *LA*; Huntington, N. Y.
 June A. O'Connell, '49; *LA*; Underhill Center
 Robert F. O'Connor, '50; *LA*; West Springfield, Mass.
 Earle K. Odell, '50; *LA*; Newport
 Ann H. O'Donnell, '49; *SED*; Northampton, Mass.
 Harold T. O'Grady, '48; *ME*; Essex Junction
 Norman J. O'Grady, '47; *EE*; Essex Junction
 Robert F. O'Grady, *Sp*; *EE*; Essex Junction
 Roy Ohno, '48; *LA*; North Branford, Conn.
 June M. Olie, '49; *MT*; Bristol, Conn.
 Anna M. Olson, '49; *JHE*; Stowe
 Irma M. Olson, *Sp*; Rutland
 Lisa M. Olsson, '47; *LA*; Brooklyn, N. Y.
 Marilyn A. Ormsbee, '50; *HE*; Montpelier
 William F. O'Rourke, '50; *Engrg*; Rutland
 Theda E. Orr, '50; *HE*; Vershire
 Concettina M. Orsi, '49; *LA*; Winsted, Conn.
 Frederick W. Osgood, '49; *PM*; Rutland
 Marcia Osher, '50; *SED*; Bellows Falls
 Robert S. Otis, '47; *Ag*; Burlington
 William T. Owen, *Sp*; Chazy, N. Y.
 Hamdi H. Ozdizdar, *Sp*; Turkey
 Roland A. Pacetti, '49; *PM*; Barre
 Dale S. Page, '50; *LA*; Derby
 Guy M. Page, '48; *LA*; Burlington
 John C. Page, '50; *Ag*; Middlesex
 Phyllis W. Page, '48; *LA*; Burlington
 Ronald M. Page, '50; *Engrg*; Burlington

- Herman M. Paikowsky, '49; *LA*; Burlington
- Richard A. Paine, '47; *Cb*; St. Johnsbury
- Lyndol H. Palin, '50; *Bus*; Burlington
- Pauline M. Palin, '48; *LA*; Derby Line
- Carmen M. Pallotta, '49; *Med*; Ludlow
- Barbara Palmer, '50; *HE*; Rochester
- Eugene M. Palmer, '49; *EE*; Washington
- Royce C. Palmer, '50; *ME*; Troy
- Anthony F. Palmisano, '50; *LA*; Barre
- Joseph Papandrea, '49; *PM*; Barre
- Angelo G. Pappas, '50; *PM*; Somerville, Mass.
- John G. Pappas, '49; *Bus*; Burlington
- Teresa M. Paquin, '48; *ELED*; St. Albans
- William C. Paradis, '49; *Bus*; St. Johnsbury
- Adelaide R. Parent, '51; *NEd*; Richmond
- Douglas G. Parizeau, '47; *Cb*; Westfield, N. J.
- Blanche L. Parker, '48; *HE*; Norwich
- Charles W. Parker, '49; *LA*; Norwich
- Charlotte B. Parker, *Sp*; Worcester, Mass.
- Gilbert H. Parker, '48; *Ag*; East Wallingford
- Lawrence J. Parker, '50; *Med*; East Poultney
- Jane M. Parks, '50; *ELED*; Essex Junction
- Willis H. Parks, '49; *Bus*; Gloucester, Mass.
- Kenneth A. Parmelee, '47; *Med*; Stratford, Conn.
- Mary E. Parris, '50; *LA*; Bellows Falls
- Barbara E. Parrott, '48; *HE*; Burlington
- Barbara J. Parrow, '49; *SED*; Jericho
- Calvin W. Parrow, '49; *SED*; Winooski
- David Partridge, '49; *EE*; Proctor
- Shirley M. Partridge, '48; *LA*; Winchester, N. H.
- Paul Pascal, '48; *LA*; Brooklyn, N. Y.
- William A. Paterson, '47; *Ag*; Barre
- John C. Patten, '47; *Med*; Claremont, N. H.
- Barbara J. Patterson, '50; *JHed*; South Burlington
- Marion E. Patterson, '47; *CT*; Willsboro, N. Y.
- Millis P. Patton, '48; *LA*; Washington, D. C.
- Dominic R. Paul, '50; *PM*; Rutland
- Leonard Paul, '48; *PM*; Hamden, Conn.
- Malcom J. Paulsen, '48; *Med*; Danville
- Martin B. Paulsen, '48; *ME*; Danville
- Everett P. Payne, '49; *NEd*; Winooski
- Phyllis L. Payne, '50; *HE*; Bennington
- Franklin M. Peabody, '50; *LA*; St. Albans
- Harriet D. Pearl, '48; *Sec*; Burlington
- Houghton D. Pearl, '47; *SED*; Burlington
- Nancy J. Pearson, '50; *LA*; Burlington
- Ethel I. Pease, '50; *ELED*; Bethel
- Jonathan A. Pease, '50; *ELED*; Bethel
- Mary G. Pease, '47; *LA*; Bethel
- Richard E. Pease, '49; *Med*; Rutland
- Michael Peck, '50; *Bus*; Burlington
- Reno J. Peduzzi, '50; *Bus*; Barre
- Joseph J. Pellon, '50; *LA*; Barre
- Hannah Pendergast, '49; *Med*; Boise, Ida.
- Jean L. Pennock, '50; *HE*; Bennington
- Phyllis J. Perelman, '49; *Sec*; Burlington
- Donald A. Perkins, '50; *Bus*; Rutland
- Dorothy M. Perkins, '50; *HE*; Rutland
- Robert Perkins, '50; *EE*; Rutland
- Albert J. Perrault, '50; *Bus*; Burlington
- Marie T. Perron, '47; *PM*; Holyoke, Mass.
- Barbara A. Perry, '50; *Bus*; St. Johnsbury
- Charles H. Perry, '50; *PM*; Plainfield
- Harold A. Perry, '50; *Bus*; Swanton
- John H. Perry-Hooker, '47; *Med*; Wells River
- Marden L. Perry, '49; *JHed*; Jamaica
- Ralph F. Perry, '50; *PM*; Morristown, N. J.
- Alfred M. Persico, '50; *ME*; Rutland
- William R. Pervier, '50; *LA*; Northfield
- Joseph S. Peters, '49; *Bus*; South Amboy, N. J.
- James E. Petersen, '50; *LA*; Salisbury
- Alfred E. Peterson, '50; *Med*; Montclair, N. J.
- Herbert A. Peterson, '48; *LA*; St. Albans
- June M. Peterson, '47; *SED*; Binghamton, N. Y.
- Miriam T. Peterson, '46; *LA*; Northfield
- Betty J. Petrie, '50; *LA*; Essex Junction
- John D. Phillips, '49; *ME*; New York, N. Y.
- John L. Phillips, '50; *LA*; Rutland
- Boris M. Piastro, '48; *Engrg*; New York, N. Y.
- Barbara C. Picard, '49; *LA*; Beacon, N. Y.
- Clayton C. Pierce, '50; *EE*; Brattleboro
- Douglas F. Pierce, '50; *Bus*; Hinsdale, Mass.

- Kenneth W. Pierce, '49; *EE*; Montpelier
 Elizabeth J. Pierson, '48; *EEd*; Bradford
 Morris D. Pike, '49; *LA*; Stowe
 Patrick P. Piscopo, '50; *Bus*; Rutland
 Roland J. Pitcher, '50; *Bus*; Essex Junction
 Frank I. Pitkin, '49; *Med*; Montpelier
 Paul E. Pitts, '50; *EE*; Waterbury, Conn.
 Eschol G. Pixley, '48; *LA*; South Strafford
 William J. Plankey, '49; *ME*; Springfield, Mass.
 Albert J. Plante, '50; *Ag*; Hinesburg
 Laurence T. Plante, '50; *Cb*; Hinesburg
 Mary C. Plante, '49; *CT*; Hinesburg
 Hamilton J. Plouf, '50; *EE*; Burlington
 Charlotte Plumb, '49; *HE*; Springfield
 Lawrence H. Plumer, *Sp*; Essex Junction
 Elaine H. Plumley, '48; *HE*; Pittsfield, Me.
 Frank E. Plumley, '50; *PM*; Pittsfield, Me.
 Alice M. Plumridge, '49; *LA*; Mount Hermon, Mass.
 Joseph G. Pomponio, '50; *PM*; Rutland
 Frank J. Poplawski, '49; *Engrg*; Winooski
 Deena S. Pord, '47; *LA*; Malden, Mass.
 Robert A. Porter, '50; *ME*; St. Johnsbury
 Farrington F. Post, '50; *LA*; St. Albans
 Helen M. Post, '50; *LA*; Burlington
 Ruth M. Post, '47; *LA*; Burlington
 William F. Potocko, '49; *EE*; Poughkeepsie, N. Y.
 William L. Potter, '47; *ME*; Bridgeport, Conn.
 Albert A. Poulin, '50; *Med*; Rumford, Me.
 Gerald L. Pouliot, '50; *ME*; Sherbrooke, P. Q., Canada
 Murie J. Powers, '49; *LA*; North Bennington
 Polly W. Powers, '48; *EEd*; St. Albans
 Virginia F. Powers, '49; *EEd*; Vergennes
 Wallace G. Powers, '48; *LA*; Brattleboro
 Alan Pratt, '49; *CE*; Proctor
 Constance Pratt, '47; *NEd*; Proctor
 Matilda J. Pratt, '49; *EEd*; Gaysville
 Frederick E. Pratt, '50; *PM*; North Clarendon
 Robert E. Pratt, '48; *SEd*; Swanton
 Kenneth F. Prendergast, '47; *PM*; Valley Stream, N. Y.
 Joyce E. Prescott, '49; *EEd*; Randolph Center
 Phyllis A. Preston, '48; *EEd*; Randolph Center
 Jean A. Preston, '50; *MEd*; Salisbury
 Sebastian R. Presty, '50; *Bus*; Caldwell, N. J.
 John R. Price, '50; *Ag*; Bethel
 Patricia Pringle, '47; *LA*; Utica, N. Y.
 Paul A. Prior, '48; *PM*; St. Albans
 John A. Proctor, '50; *LA*; Burlington
 Carl L. Proper, '48; *EE*; Pittsfield, Mass.
 Ronda H. Prouty, '47; *HE*; West Hartford, Conn.
 Ralph S. Provost, '50; *LA*; Burlington
 Carroll A. Prybylo, '50; *LA*; Springfield
 Karl H. Puechl, '48; *LA*; South Londonderry
 Aubrey E. Pulling, '50; *Ag*; Rutland
 Edward D. Pushee, Jr., '49; *EE*; Fair Haven
 Danta B. Quintana, '50; *LA*; Barre
 James L. Raleigh, '50; *PM*; Rutland
 Neil Ralph, '50; *Ag*; Barre
 Jeanne A. Ramsey, '50; *Sec*; Burlington
 Earle D. Randall, '50; *Ag*; Barton
 Mary E. Randall, '49; *LA*; Waterbury
 Lita Rappaport, '48; *LA*; Mt. Vernon, N. Y.
 Stanley M. Rapoport, '47; *Med*; New York, N. Y.
 Ricardo J. Rasines, '50; *MT*; Barre
 Anita R. Ray, '47; *LA*; Burlington
 Robert H. Ray, '50; *LA*; South Burlington
 Charlotte D. Raymond, '50; *HE*; Rutland
 John F. Reagan, '48; *PM*; Medford, Mass.
 Roland W. Reasoner, '49; *PM*; Boston, Mass.
 Albert S. Redway, '49; *SEd*; New Haven, Conn.
 Frederick M. Reed, '49; *LA*; Manchester Depot
 Luton R. Reed, '49; *PM*; Burlington
 Wendell G. Reed, '49; *NEd*; Bakersfield
 Bruce W. Regnemer, '49; *PM*; Stamford, Conn.
 Howard D. Reid, '48; *LA*; Barre
 Gretchen Relyea, '48; *LA*; Berlin, Conn.
 Bernard P. Remily, '50; *Engrg*; Burlington
 Louis A. Resi, '49; *Ag*; Yonkers, N. Y.
 Richard E. Revilla, '49; *LA*; Rosemead, Calif.

- Ruth H. Reynolds, '48; *NEd*; Alburgh
 Sylvia Reynolds, '49; *HE*; Longmeadow, Mass.
 Robert J. Rhein, '50; *SEd*; Huntington
 Earle W. Rice, '49; Worcester, Mass.
 Roderick C. Rice, '49; *ME*; Burlington
 Vincent E. Richards, '50; *Ag*; New York, N. Y.
 Charles A. Richardson, '50; *Ch*; Montpelier
 Frederick W. Richardson, '50; *ME*; Springfield
 Gwendolyn M. Richardson, '48; *HE*; Montreal, P. Q., Canada
 Barbara A. Richman, '49; *LA*; New Haven, Conn.
 Mrs. Lois H. Ricker, '48; *LA*; Burlington
 Merton E. Ricker, '50; *Engrg*; Burlington
 Ivers M. Rifkin, '49; *LA*; Brockton, Mass.
 Brian M. Riggie, '50; *Ag*; Island Pond
 John W. Riley, '48; *Bus*; Burlington
 Joseph L. Rinfret, '50; *Ag*; Brattleboro
 Charlotte A. Ringey, '50; *HE*; Middlebury
 Robert G. Ripper, '48; *Ch*; Burlington
 Jean A. Ritchie, '50; *LA*; Bellerose, N. Y.
 Mario E. Rivera, '47; *PM*; Rincon, P. R.
 Oscar T. Rixford, '49; *Bus*; East Highgate
 Edith P. Robbins, '47; *Ag*; Bronx, N. Y.
 Jane W. Robbins, '48; *LA*; Schenectady, N. Y.
 Willard Robertson, '50; *Bus*; Manchester Depot
 Kenneth T. Robinson, '49; *EE*; Burlington
 Philip E. Robinson, '49; *LA*; Burlington
 Homer F. Rocheleau, '49; *LA*; St. Albans
 Donald E. Rock, '49; *Med*; Ludlow
 Barbara A. Rodger, '49; *Ch*; West Danville
 Earl Q. Rodger, '49; *Engrg*; West Danville
 Carolyn J. Rogerson, '50; *Bus*; Richford
 John W. Rogerson, '50; *EE*; Richford
 Hugh E. Rolfe, '50; *Ag*; Burlington
 Newman Rome, '49; *Bus*; Rutland
 Henry T. Rondeau, '47; *PM*; Burlington
 Alice T. Rooney, '51; *NEd*; St. Albans
 James R. Rooney, '50; *Bus*; Newport
 Marion E. Rosenhain, '47; *LA*; Forest Hills, N. Y.
 Kathleen G. Rosoff, '48; *LA*; Morristown, N. J.
 Dorothy M. Ross, '49; *LA*; Barre
 Harry R. Ross, '50; *Bus*; Rutland
 Franklin P. Round, '50; *CE*; East Wallingford
 Dean T. Rowden, '50; *CE*; Wells River
 Thelma H. Rowe, '50; *HE*; Bourne, Mass.
 Gail E. Rowell, '49; *EEd*; Tunbridge
 Margaret A. Rowell, '48; *LA*; Newport
 Leon J. Roy, '50; *Bus*; Westminster Station
 Lucile T. Royer, '49; *NEd*; Island Pond
 George B. Ruble, '47; *ME*; Burlington
 Elizabeth A. Rublee, '47; *HE*; Newport
 Novello G. Ruggiero, '49; *PM*; Waterbury, Conn.
 Dorothy M. Rulfo, '51; *NEd*; Barre
 Phyllis E. Rulfo, '51; *NEd*; Barre
 Marjorie L. Rumph, '47; *LA*; Atlantic Beach, N. Y.
 Carl Ruroede, '50; *Bus*; Montclair, N. J.
 Walter O. Ruroede, '50; *Ag*; Montclair, N. J.
 Patricia R. Russell, '50; *LA*; Maplewood, N. J.
 Robert A. Russell, '49; *SEd*; Niagara Falls, N. Y.
 Michael J. Rutkowski, '49; *CE*; Rutland
 Helen B. Rutledge, '49; *Sec*; Fairlee
 Barbara H. Ryan, '50; *LA*; Enosburg Falls
 Charles F. Ryan, '50; *Med*; Vergennes
 Donald C. Ryan, '48; *PM*; Burlington
 Jean M. Ryan, '47; *MT*; Brattleboro
 Margaret M. Ryan, '48; *SEd*; Enosburg Falls
 Wendell J. Ryan, '47; *Ch*; Manchester, Conn.
 William P. Ryan, '50; *PM*; Holyoke, Mass.
 George L. Saiger, '48; *Med*; Burlington
 Natalie J. Salls, '48; *PM*; East Hartford, Conn.
 William Salmon, '49; *Bus*; North Bennington
 Marvin Saltzman, '50; *PM*; Brooklyn, N. Y.
 Arlene M. Sanborn, '50; *HE*; North Bennington
 Francis E. Sanborn, '49; *Bus*; Burlington
 Reba D. Sanderson, '50; *LA*; Milton
 Ruby A. Sanderson, '47; *NEd*; Winsted, Conn.

- James P. Sangster, '50; *ME*; Burlington
 Marilyn C. Sanguinetti, '49; *HE*; Barre
 Louis San Miguel, '50; *Bus*; Barre
 Allen W. Sawyer, '50; *EE*; Morrisville
 Helen L. Schauer, '49; *NED*; Ely
 Leo J. Schildhaus, '49; *Med*; Burlington
 Mary A. Schinoski, '49; *NED*; Ludlow
 Edward Schlitt, '49; *LA*; New York,
 N. Y.
 Paul L. Schoenberg, '48; *Med*; New York,
 N. Y.
 Alson C. Schoff, *Sp*; Newport
 John A. Schwenker, '48; *Bus*; Oradell,
 N. J.
 Benjamin F. Schweyer, '49; *Bus*; Burling-
 ton
 Mary P. Schweyer, '50; *LA*; Burlington
 Betty A. Scott, '47; *SED*; Bennington
 Dorothy F. Scott, '48; *LA*; Birmingham,
 Mich.
 William W. Scott, '48; *PM*; Barton
 Eleanor J. Scribner, '50; *SED*; Johnson
 Franklin C. Scribner, '49; *Engrg*; Plain-
 field
 Angeline Scutakes, '49; *Sec*; Burlington
 John H. Seaman, '50; *PM*; East Orange,
 N. J.
 Mary J. Segale, '50; *SED*; Rutland
 Alfred H. Senecal, '49; *LA*; Worcester,
 Mass.
 Manuel Setien, '50; *Bus*; Barre
 Malcom F. Severance, '49; *Bus*; Colchester
 Shirley M. Severy, '46; *NED*; Brandon
 Roger W. Sevy, '49; *Med*; Salt Lake City,
 Utah
 Edward J. Shaban, '50; *Bus*; Windsor
 James J. C. Shadyac, '49; *PM*; Barre
 Richard M. Shangraw, '49; *LA*; St. Al-
 bans
 Cecil J. Shapland, '48; *SED*; St. Albans
 Jean Shaw, '49; *LA*; Rye, N. Y.
 Martha C. Shaw, '48; *LA*; Verona, N. J.
 Hartley S. Shea, '49; *ME*; Wilton, Me.
 Marolyn A. Shea, '50; *Sec*; Montpelier
 Joan M. Sheehey, '48; *NED*; Burlington
 Patricia E. Sheffert, '47; *ElEd*; Engle-
 wood, N. J.
 Barbara W. Shen, '50; *PM*; Plainfield
 Berton M. Shepard, '50; *CE*; Hartford
 Harley G. Shepard, '47; *PM*; South Bur-
 lington
 Suzanne Shepard, '48; *HE*; Gardner,
 Mass.
 Wendell F. Shepard, '50; *Ch*; Hardwick
 Dennison W. Shepardson, '48; *SED*; Fair-
 fax
 Francis T. Sheridan, '50; *Bus*; Montpelier
 Joseph M. Sherman, '50; *LA*; Brattleboro
 Sydel R. Sherman, '48; *Ch*; Brooklyn,
 N. Y.
 Edward S. Sherwood, '49; *Med*; Mt. Ver-
 non, N. Y.
 Manuel Shindel, '50; *Bus*; Burlington
 Zola R. Shipman, '49; *LA*; Potsdam,
 N. Y.
 Helen A. Shnitnikoff, '50; *Ag*; New York,
 N. Y.
 Louise I. Shopis, '48; *LA*; Nichols, Conn.
 Charles A. Shortle, '47; *Bus*; Burlington
 Gladys I. Shurberg, '49; *LA*; New Britain,
 Conn.
 Dorothy O. Shyne, '49; *LA*; Burlington
 William V. Shyne, '49; *Med*; Burlington
 Edna M. Sickinger, '47; *ElEd*; Burlington
 John S. Sickles, '49; *Med*; Pearl River,
 N. Y.
 Howard B. Siegrist, '48; *LA*; Glen Rock,
 N. J.
 Arthur C. Sikora, '48; *Bus*; Burlington
 Rita M. Silverberg, '49; *LA*; Jamaica,
 N. Y.
 Emilie J. Silverman, '49; *LA*; Newark,
 N. J.
 Eunice M. Simmons, '49; *Med*; Montpelier
 Loretta E. Simms, '50; *Bus*; Fords, N. J.
 Ralph W. Simonds, '50; *Bus*; Grosse Point,
 Mich.
 Burton A. Sisco, '50; *LA*; Windsor
 Pearlene L. Slack, '50; *HE*; Randolph Cen-
 ter
 Floyd E. Sleeper, '50; *ME*; Essex Junction
 Joseph J. Smart, '50; *LA*; Haddonfield,
 N. J.
 Edward J. Smerzenski, '49; *Bus*; Burling-
 ton
 Ruth W. Smerzenski, '49; *Bus*; Burling-
 ton
 Anita L. Smith, '47; *ME*; Hyde Park
 Avery J. Smith, '50; *SED*; St. Albans
 Barbara Smith, '48; *LA*; Westfield, N. J.
 Clement E. Smith, '50; *PM*; Hardwick
 Emma J. Smith, '49; *LA*; Hackettstown,
 N. J.

- George A. Smith, '49; *SED*; Derby Line
 Jane L. Smith, '47; *HE*; Forest Hills,
 N. Y.
 John A. Smith, '50; *ME*; Waitsfield
 John F. Smith, '50; *Cb*; Rosedale, N. Y.
 Kathleen F. Smith, '50; *MT*; Burlington
 Leroy S. Smith, '50; *Cb*; Springfield
 Lydia C. Smith, '47; *LA*; Stamford, Conn.
 Mary A. Smith, '48; *LA*; Hackettstown,
 N. J.
 Oney P. Smith, '50; *PM*; Troy, N. Y.
 Robert R. Smith, '48; *LA*; Springfield
 Roderick W. Smith, '50; *LA*; Scarsdale,
 N. Y.
 Stuart J. Smith, '49; *LA*; Burlington
 Wendell M. Smith, '50; *CE*; Hardwick
 Elizabeth A. Snell, '49; *HE*; Cambridge
 Barbara F. Snetsinger, '47; *SED*; Mont-
 pelier
 Irene F. Socinski, '48; *HE*; West Rutland
 Selma S. Sondik, '47; *LA*; West Hartford,
 Conn.
 Jeannette E. Sorn, '48; *LA*; Bala-Cynwyd,
 Pa.
 Robert W. Soule, '47; *EE*; Burlington
 Richard A. Southwick, '50; *SED*; White
 River Junction
 Jean M. Spalding, '48; *LA*; Wethersfield,
 Conn.
 Arthur E. Spaulding, '48; *SED*; Poultney
 Barbara J. Spaulding, '50; *SED*; Rutland
 Willis A. Spaulding, '50; *ME*; Proctorsville
 Calvin O. Spear, '49; *ME*; Burlington
 Leo B. Spear, '48; *CE*; Essex Junction
 Mathias L. Spiegel, '47; *LA*; Brooklyn,
 N. Y.
 Carleton W. Sprague, '49; *ME*; East Mid-
 dlebury
 Ruth M. Sprague, '49; *Ag*; Burlington
 Sherman K. Sprague, '48; *Ag*; Barre
 John P. Stacy, '49; *LA*; Charlotte
 Robert B. Stafford, '49; *Bus*; Burlington
 Theodore W. Stafford, '49; *Bus*; Burling-
 ton
 Mary H. Stamatiades, '49; *LA*; Brushton,
 N. Y.
 Robert A. Stanley, '49; *CE*; Burlington
 Willard D. Stantial, '50; *Engrg*; Beverly,
 Mass.
 Rodney S. Stanton, '50; *EE*; St. Johnsbury
 Alison C. Stead, '48; *LA*; Burlington
 Dorothy L. Stead, '50; *HE*; Burlington
 Prescott W. Stearns, '49; *Cb*; St. Johns-
 bury
 Jean S. Stebbins, '49; *LA*; Saranac Lake,
 N. Y.
 Rupert M. Stebbins, '50; *ME*; Burlington
 Cornelia Steele, '49; *LA*; Waterbury
 Edward W. Steele, '48; *LA*; Burlington
 Donald H. Steenburn, '49; *ME*; South-
 bridge, Mass.
 Janet H. Steenburn, '48; *LA*; South-
 bridge, Mass.
 Loretta D. Steigner, '50; *LA*; Island Pond
 Howard S. Stein, '50; *Med*; Brooklyn,
 N. Y.
 Alan Q. Steinecke, '49; *SED*; South Lon-
 donderry
 Norma A. Stephenson, '49; *HE*; Lowell
 Francis R. Sterling, '48; *Med*; Hoxsie,
 R. I.
 Joanne Stevens, '47; *Bus*; Worcester,
 Mass.
 Lois E. Stevens, '47; *LA*; New Haven
 Paul C. Stevens, '50; *ME*; East Charleston
 Charles E. Stewart, '49; *Ag*; Shelburne
 Kenneth C. Stewart, '50; *EE*; Burlington
 Robert A. St. Gelais, '50; *LA*; Burlington
 Howard W. Stickney, '50; *Ag*; East Thet-
 ford
 Gwendolyn M. Stiles, '48; *Sec*; Burlington
 Wendell A. Stimets, '48; *LA*; Highgate
 Center
 Gerald E. Stimson, '49; *ME*; Burlington
 Mildred K. Stine, '49; *LA*; White Plains,
 N. Y.
 Elizabeth R. St. Mary, '49; *Sec*; Spring-
 field
 Ernest R. Stockwell, '48; *SED*; Hartford
 Mark M. Stoddard, '50; *LA*; East Bethel
 Hedi S. Stoehr, '50; *EIED*; Winooski Park
 Kolin Stokes, '46; *Med*; Waitsfield
 Konrad H. Stokes, '47; *LA*; Waitsfield
 Edgar P. Story, '48; *Engrg*; Rutland
 Harold W. Stowe, '50; *Cb*; Burlington
 Beverly S. Stratton, '50; *PM*; Barre
 Alice L. Streeter, '50; *EIED*; Dorset
 Leslie W. Streeter, '50; *LA*; Lunenburg
 Rollin M. Strong, '50; *Bus*; Richmond
 Eleanor I. Strout, '50; *LA*; Arlington
 Francis J. Sugrue, '48; *LA*; Waterbury,
 Conn.
 Harriet Sullivan, '49; *Med*; Brooklyn,
 N. Y.

- John D. Sullivan, '50; *LA*; Burlington
 Rose K. Sullivan, '47; *ELED*; Bellows Falls
 Eugene H. Sumner, '50; *MT*; North
 Adams, Mass.
 George W. Sumner, '49; *Ag*; Rutland
 Robert S. Sumner, '49; *Bus*; Wilder
 Alfred G. Susslin, '49; *PM*; St. Albans
 Robert F. Sutherland, '50; *LA*; Burlington
 Thallis T. Suvoroff, '48; *LA*; New Haven
 Mary L. Sweet, '49; *SED*; Champlain,
 N. Y.
 Philip B. Sweetser, '50; *LA*; Morrisville
 Karl W. Switzer, '48; *Bus*; Waban, Mass.
 Reginald D. Swyer, '49; *NED*; Rutland
 James G. Sykes, '48; *Ag*; Brownsville
 Philip Slybert, '47; *PM*; Brooklyn, N. Y.
 Roger A. Sylvester, '50; *Ag*; Essex Junc-
 tion
 Crafton C. Sylvies, '49; *LA*; Honolulu,
 Hawaii
 Saturnina Szabolinski, '48; *Bus*; Spring-
 field
 Edward J. Tadejewski, '47; *Ag*; Trenton,
 N. J.
 Patricia E. Tatro, '48; *Med*; Worcester,
 Mass.
 Louis J. Tasetano, '50; *LA*; Burlington
 Donald S. Taylor, '50; *CE*; Plainfield
 Nancy H. Taylor, '50; *JHED*; Barre
 William W. Taylor, '50; *Bus*; Springfield
 Barbara F. Tennien, '47; *NED*; Pittsford
 Wilfred L. Thabault, '47; *Med*; Winooski
 Paul C. Thibault, '50; *CE*; Waterbury
 Kenneth C. Thiess, '49; *ME*; Burlington
 Richard W. Thompson, '47; *Ag*; Lakeside,
 Conn.
 Theda E. Thompson, '47; *ELED*; Bristol
 Charles M. Thomson, '47; *EE*; Haverhill,
 Mass.
 Lucy Thornton, '49; *LA*; Burlington
 Margaret A. Thurstone, '49; *LA*; Buffalo,
 N. Y.
 Laurence P. Tidd, '50; *Engrg*; Bennington
 James W. Tierney, '48; *Med*; Norwalk,
 Conn.
 Eugene W. Tigan, '49; *Bus*; Rochelle, Ill.
 Leonard L. Timmons, '50; *Ag*; West
 Lebanon, N. H.
 Nancy C. Tobey, '49; *LA*; Brandon
 Theresa L. Tomasi, '50; *LA*; Burlington
 Leonard R. Tomat, '50; *LA*; Barre
 Eugene R. Tompkins, '49; *Med*; Hartford,
 Conn.
 Lila Toomin, '49; *LA*; Newark, N. J.
 Marjorie J. Topkins, '50; *Med*; Brooklyn,
 N. Y.
 Raymond P. Torri, '49; *EE*; Proctor
 Raymond G. J. Tougas, '50; *PM*; Essex
 Junction
 Elizabeth J. Towle, '47; *LA*; Newport
 William H. Towle, '49; *LA*; Newport
 Harriet L. Towne, '50; *LA*; Burlington
 Ida M. Towne, '48; *SED*; Morrisville
 Phyllis E. Towne, '47; *ELED*; Newport
 William H. B. Towne, '50; *PM*; Morris-
 ville
 Philip W. Townsend, '50; *EE*; Brockton,
 Mass.
 Winthrop I. Townsend, '50; *Bus*; Windsor
 Irwin M. Tracey, '48; *Bus*; Burlington
 Mildred Trachtenberg, '47; *LA*; Brooklyn,
 N. Y.
 Winslow P. Trask, '50; *LA*; Rochester
 Charles F. Traverse, '50; *Bus*; Newark,
 N. J.
 Rose M. Traynor, '50; *ELED*; St. Johns-
 bury
 Raymond H. Tremblay, '47; *Ag*; North
 Springfield
 Anthony Trono, '50; *NED*; Burlington
 Bernard J. Trudell, '50; *EE*; Burlington
 Barbara M. Tucker, '48; *LA*; Melrose,
 Mass.
 Lilian E. Tucker, '49; *LA*; Alexandria,
 Va.
 Pearle A. Tucker, '50; *ELED*; Waitsfield
 Douglas Tudhope, '50; *Bus*; North Hero
 Henry J. Tulip, '47; *Med*; Burlington
 James B. Turnbull, '50; *Bus*; Orleans
 Ann H. Tuttle, '48; *HE*; New Rochelle,
 N. Y.
 John C. Twitchell, '50; *LA*; Burlington
 Alice D. Tyndall, '47; *Med*; Weehawken,
 N. J.
 Howard C. Tyrrell, '50; *EE*; Burlington
 Jay L. Underhill, '50; *EE*; North Attle-
 boro, Mass.
 Clare T. Upson, '48; *LA*; Jackson Heights,
 N. Y.
 Stanley F. Ursprung, '50; *Ch*; New Lon-
 don, Conn.
 Francis T. Usher, '49; *SED*; Bellows Falls

- Jeanne L. Vaarwerk, '50; *LA*; Buffalo, N. Y.
- Robert J. Vachon, '50; *Bus*; Bennington
- Charles N. Valade, '49; *Engrg*; Burlington
- Angelo J. Valente, '50; *Bus*; Rutland
- John R. Valente, '50; *EE*; Rutland
- Silvio T. Valente, '49; *PM*; Rutland
- Margaret Van Arsdale, '48; *LA*; Ozone Park, N. Y.
- Patricia A. Vanat, '50; *ELED*; Jeffersonville
- Henry C. Van Buren, '50; *PM*; Burlington
- Jean Van Hynning, '49; *LA*; Washington, D. C.
- Camille G. Van Nostrand, '48; *LA*; Forest Hills, N. Y.
- William S. Van Scoik, '50; *Ag*; Poultney
- Virginia F. Varney, '47; *LA*; Jericho
- Charles R. Vaughan, '50; *PM*; Burlington
- Donald S. Vaughan, '50; *PM*; Westport, N. Y.
- Millicent E. Vaughn, '49; *HE*; Arlington
- Alfred D. Veale, '50; *PM*; Morristown, N. J.
- Carolyn Verber, '48; *LA*; Forest Hills, N. Y.
- Wilfred N. Vercoe, '48; *ME*; Barre
- Edris R. Verrall, '48; *LA*; Saco, Me.
- Bernard E. Villemaire, '49; *PM*; Burlington
- Concetta N. Virgona, '48; *LA*; Beacon, N. Y.
- John J. Vitagliano, '49; *EE*; Rutland
- Joyce Anne Viventi, '49; *LA*; East Orange, N. J.
- Joan B. Vollmers, '49; *LA*; Rutherford, N. J.
- Rupert Von Trapp, '47; *Med*; Stowe
- Charles V. Vosburgh, '50; *LA*; Bellows Falls
- Robert R. Wadlund, '47; *Med*; Wethersfield, Conn.
- Jean F. Waite, '50; *MED*; Middlebury
- Richard C. Walker, '49; *SED*; Benson
- John F. Wallace, '49; *EE*; Alburg
- John A. Warden, '49; *LA*; Bluefield, W. Va.
- Charles D. Warner, '49; *Bus*; Fitchburg, Mass.
- Marion P. Warren, '47; *ELED*; Montpelier
- Patricia A. Warren, '50; *LA*; Chester Depot
- Robert Warsaw, '47; *Bus*; White Plains, N. Y.
- William A. Washington, '50; *Bus*; Rock Tavern, N. Y.
- Henry Wasserman, '47; *LA*; Burlington
- Joseph W. Waterman, '49; *Bus*; Newton Center, Mass.
- Margaret L. Waterman, '48; *SED*; St. Albans
- Frances R. Watson, '48; *LA*; South Barre
- Eleanor J. Weber, '50; *LA*; Newton, Mass.
- Curtis C. Webster, '47; *LA*; Roxbury
- Fred C. Webster, '48; *Ag*; Randolph
- Karl S. Webster, '49; *ME*; Orleans
- Alan C. Weess, '48; *Bus*; Hanover, Mass.
- Myna Weinberg, '48; *LA*; Springfield, Mass.
- Theodore D. Weiss, '50; *Bus*; Woodmere, N. Y.
- Seymour P. Weissman, '48; *PM*; Budd Lake, N. J.
- Edward K. Welch, '47; *LA*; Winooski
- Joseph J. Welch, '50; *Med*; Rutland
- Vincent P. Welch, '48; *ME*; Burlington
- Anne D. Weld, '48; *Med*; Northampton, Mass.
- Catherine L. Wells, '48; *HE*; Jamaica, N. Y.
- John W. Wesley, '49; *SED*; St. Johnsbury
- William L. West, '48; *Med*; Shelton, Conn.
- Phebe-Jane Wescott, '48; *SED*; Franklin
- K. Jona Westwood, '48; *LA*; Elmira, N. Y.
- Lucille E. Wetherby, '49; *LA*; Wallingford
- Donald F. Wetzell, '49; *EE*; Brockton, Mass.
- Richard R. Whalen, '49; *Ag*; Burlington
- Donald M. Wheatley, '50; *EE*; Burlington
- Rebecca J. Wheatley, '49; *ELED*; Randolph Center
- Wilson K. Wheatley, '50; *CE*; Cambridge, Md.
- Alfred G. Wheeler, '50; *LA*; Hardwick
- David B. Wheeler, '48; *SED*; Morrisville
- David H. Wheeler, '50; *MED*; Shelburne
- Phyllis V. Wheeler, '50; *SED*; North Bennington
- Raymond H. Wheelock, '50; *PM*; Barre
- Paula Whelan, '47; *LA*; Orange, N. J.

- Betty J. White, '50; *ELED*; Ryegate
 Catherine A. White, '47; *LA*; Brattleboro
 Ernest C. White, '49; *LA*; Castleton
 Jack C. White, '49; *PM*; West Chester, Pa.
 Rodman H. Whitman, '49; *EE*; Richford
 Betty M. Whitney, '48; *HE*; Stamford
 Royce E. Whittier, '48; *Med*; Concord, N. H.
 Grace M. Wieder, '49; *LA*; Long Beach, N. Y.
 Emanuel Wiedman, '50; *Med*; Burlington
 Melvin L. Wiedman, '49; *PM*; Burlington
 William S. Wiedorn, '49; *PM*; New Orleans, La.
 Maud-Ann Wiggins, '47; *HE*; Rutland
 Charles J. Wilcox, '50; *Ag*; Shelburne
 Cynthia M. Williams, '49; *HE*; Riverdale, N. Y.
 Douglas Williams, '48; *CE*; Forty Fort, Pa.
 John S. Williams, '47; *Ag*; Burlington
 Nelson Williams, '48; *SED*; Poultney
 Robert L. Williams, '47; *EE*; Fort Ethan Allen
 Thomas W. Williams, '48; *Med*; North Sutton, N. H.
 John Williamson, '49; *LA*; Bayonne, N. J.
 Sanford M. Willis, '50; *LA*; North Bennington
 Silas H. Willis, '50; *Bus*; Arlington
 Albert C. Wilson, '50; *CE*; Fair Haven
 Robert B. Winship, '48; *SED*; Wells River
 Sandra Winslow, '49; *Ag*; South Strafford
 John S. Winston, '49; *LA*; Forest Hills, N. Y.
 Jackson W. Wisner, '50; *Ch*; Rockville, Md.
 Donald M. Wood, '50; *EE*; Rutland
 Gerald E. Wood, '49; *Engrg*; Burlington
 Hazen F. Wood, '50; *Sp*; Burlington
 John M. Wood, '47; *Med*; Hartford, Conn.
 Martha Wood, '49; *LA*; Brooklyn, N. Y.
 Mary P. Wood, '50; *LA*; Brooklyn, N. Y.
 Robert Y. Wood, '50; *Ag*; Fair Haven
 William P. Wood, '50; *LA*; Colchester
 Rudolph O. Woodcock, '48; *PM*; Plainfield
 Aimee K. Woodruff, '50; *Med*; Jericho
 Francis P. Woods, '50; *Bus*; West Rutland
 Pauline E. Woodward, '49; *ELED*; Westford
 Richard G. Woodward, '50; *LA*; Burlington
 Richard A. Workman, '50; *Bus*; Essex Junction
 William W. Worthen, '49; *Ag*; Springfield, Mass.
 Lois J. Worthley, '47; *ELED*; East Corinth
 Joyce A. Wright, '49; *HE*; Saxtons River
 Marjorie A. Wright, '49; *ELED*; Bennington
 Martha A. Wright, '47; *LA*; Waterbury
 Phyllis M. Wright, '47; *HE*; Saxtons River
 Wendell P. Wright, '49; *ME*; St. Johnsbury
 William L. Wright, '50; *Bus*; Burlington
 Cynthia Wriston, '48; *Ag*; Highgate Springs
 John C. Wriston, '48; *Ch*; Highgate Springs
 Donald R. Yandow, '49; *Bus*; Burlington
 Harris A. Yandow, '50; *LA*; North Ferrisburg
 Kenneth B. Yandow, '49; *Bus*; Burlington
 Dominick D. Yarnal, '49; *PM*; Bellows Falls
 Eugene A. York, '50; *ME*; Morristown, N. J.
 Pauline M. Youcis, '49; *LA*; Plainfield, Conn.
 Betty M. Young, '48; *Med*; Baltimore, Md.
 Emily M. Young, '50; *Ch*; West Glover
 Mary E. Young, '48; *LA*; Rutland
 Larry G. Zaetz, '49; *LA*; Burlington
 John A. Zagroba, '49; *PM*; West Rutland
 Howard L. Zauder, '47; *LA*; Kew Gardens Hills, N. Y.
 Shirley L. Zoll, '47; *LA*; Elmhurst, N. Y.
 Alex Zucker, '48; *LA*; New York, N. Y.

SUPPLEMENTARY LIST

Students entered in January, 1947

- Howard S. Aaron, '49; *Bus*; Brooklyn, N. Y.
 John E. Abbott, '50; *SEd*; Wilder
 Lawrence B. Ahrens, '48; *LA*; Burlington
 Eleanor M. J. Anderson, '49; *LA*; Naugatuck, Conn.
 Walter O. Anderson, '50; *CE*; Barre
 Frank I. Antonivich, '50; *CE*; Springfield
 J. M. Robert Audette, '50; *IE*; Burlington
 Clyde C. Badger, Jr., '50; *LA*; Vergennes
 George A. Bailey, '50; *EE*; Burlington
 Frank L. Baker, '50; *EE*; Danby
 Charles J. Ballantyne, '50; *EE*; Wolcott
 Thomas R. Ballard, '50; *Bus*; Rutland
 Audrey L. Barnard, '50; *JHed*; Pittsford
 Robert E. Barrie, '49; *ME*; Ridgewood, N. J.
 Earl R. Barrett, '50; *EE*; Fairlee
 Urban H. Bates, '50; *LA*; Windsor
 James C. Batten, '50; *ME*; East Hardwick
 Milton B. Bayer, '50; *Bus*; New Britain, Conn.
 Norman R. Begin, '50; *Bus*; Burlington
 John P. Bellows, '50; *LA*; Burlington
 Michael P. Berken, '50; *Bus*; New York, N. Y.
 William J. Beucler, '50; *Ag*; Morristown, N. Y.
 Gordon K. Bickford, '50; *LA*; Springfield
 Burke W. Bigwood, '50; *Ch*; W. Hartford, Conn.
 Albert A. Blanchet, '50; *Engrg*; Websterville
 Vergilio L. Bonacorsi, '50; *Bus*; Barre
 George Borofsky, '50; *Bus*; Brattleboro
 Edward H. Bort, '50; *PM*; Batavia, N. Y.
 Benzil F. Boyd, '50; *EE*; Burlington
 William T. Boyd, '50; *ME*; Burlington
 Richard H. Brashhear, Jr., '50; *EE*; Voorheesville, N. Y.
 Leo A. Brosseau, '50; *ME*; Highgate
 Robert Brown, '50; *LA*; Sterling, Ill.
 Walton A. Brown, '50; *LA*; New York, N. Y.
 Andrew R. Buchanan, '50; *Engrg*; Burlington
 Clarence F. Burke, '49; *EE*; Ft. Ethan Allen
 Robert J. Burns, '50; *LA*; Springfield, Mass.
 Francis H. Burroughs, '50; *LA*; Vergennes
 Schuyler Burton, '50; *LA*; New York, N. Y.
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 meadow, Mass.
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 N. Y.
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 Alfred W. House, B.S., Northfield
 Alice H. Howe (Mrs.), B.E., Passumpsic
 Nancy Howe, Burlington
 Lyman C. Hunt, Jr., B.S., Burlington
 Lyman C. Hunt, M.A., Burlington
 Cora A. Hutchins, B.S.ED., Burlington
 Doris E. Hutchins, Brattleboro
 Marie Hutchins, Baltimore, Md.
 Gloria E. Hyatt, Brooklyn, N. Y.
 Josephine M. Imboden, B.S., Palmyra, Pa.
 Ruth P. Ingersoll (Mrs.), Burlington
 Leonard W. Ingraham, B.S., M.A., New York, N. Y.
 Susan A. Isenhower, Wadhams, N. Y.
 Elizabeth H. Ivins, Trenton, N. J.
 Myron S. Jacobson, Brooklyn, N. Y.
 Dorothy Jacoff, New York, N. Y.
 Robert Jahelka, Jr., Hillsdale, N. J.
 Constance E. Jarvis (Mrs.), Burlington
 Thelma H. Jobling (Mrs.), Burlington
 Phyllis C. Johnson, B.E., South Londonderry
 Virginia M. Jones, B.S., M.E., St. Joseph, Mo.
 Wallace D. Jones, Meriden, N. H.
 Ruth K. Jordan, B.S.ED., M.A., Burlington

Dorothy A. Juhlin, B.A.ED., Lake Worth, Fla.
 Lois Kaplan, New York, N. Y.
 Rita J. Karp, Mt. Vernon, N. Y.
 Marilyn R. Katz, Flushing, L. I., N. Y.
 Murray Katz, B.S., M.A., New York, N. Y.
 William M. Kearns, Watertown, Mass.
 Marguerite Kebrek, Bristol, R. I.
 Marjorie M. Kefer, B.E., Chicago, Ill.
 Kathleen M. Kehoe, Enosburg Falls
 Louise W. Kellogg, Pittsfield, Mass.
 Annette M. Kemler (Mrs.), Burlington
 George R. Kenfield, Essex Junction
 Renee Kessler, New York, N. Y.
 Florence A. Keyes, Fitchburg, Mass.
 Allan G. Kidd, Northfield
 Mary R. Kieley, Rutland
 Emma A. Kimball, Sharon
 Pearl Kipnis, Brooklyn, N. Y.
 Beatrice M. Kirk (Mrs.), Berlin, N. H.
 Kathryn R. Knickerbocker (Mrs.), Burlington
 Esther Kopial, Brooklyn, N. Y.
 Julius Kramer, B.S., M.A., Brooklyn, N. Y.
 Ruth M. Kramer (Mrs.), A.B., M.A., Brooklyn, N. Y.
 Beatrice S. Kussin, B.A., M.A., Brooklyn, N. Y.
 Helen L. Kyle, Genesco, N. Y.
 Nellie M. Labounty (Mrs.), Charlotte
 Walter N. Labounty, Charlotte
 Nancy Ladd, Belmont, Mass.
 Ruth E. Laessle, Moorestown, N. J.
 Thelma B. Lafayette (Mrs.), Burlington
 Cedric A. Lafley, B.S., Brandon
 Simone I. Landry, Winooski
 Elizabeth J. Lane (Mrs.), B.S., Burlington
 William T. Lane, Burlington
 Adelaide H. Lanphere (Mrs.), Wells River
 Colette R. Larkin, Fair Haven
 Christobel E. Latham, Milton
 Mildred E. Lauzon, Burlington
 Frances J. Lawliss, Richford
 Peggy A. Lawlor, Burlington
 Carlotta G. Lawrence, Brattleboro
 Sherwood O. Lay, Island Pond
 Mary G. Leamy, Fair Haven
 Mary Elizabeth Leddy, Burlington
 Henry H. Lee, New York, N. Y.
 Joyce Lee, Rutland
 Kathryn A. Leonard, Orwell
 Joyce S. Lerner, Brooklyn

Sylvia Levine, Brooklyn, N. Y.
 Vivian S. Levine, Burlington
 Mildred D. Lidstone (Mrs.), B.S., Wallingford
 Clarence A. Lindsay, Springfield
 Mary U. Lindsay, A.B., Burlington
 Marion A. Linsenmeir (Mrs.), Burlington
 Natalie A. Litchfield, Brooklyn, N. Y.
 Mary K. Lobdell (Mrs.), Wells
 Yolanda A. Lopardo, North Adams, Mass.
 Elizabeth R. Lovett, New Haven, Conn.
 Alice W. Luce (Mrs.), Bethel
 Mary F. Madigan, Burlington
 Edith M. Magoon (Mrs.), Newport
 Peter S. Mallett, Winsted, Conn.
 Clarice H. Manchester, Castleton
 Rita E. Mangan, Rutland
 Adda M. Mann, Burlington
 Marie A. Mannino, B.S., Westfield, N. J.
 Katherine I. Marcott, Arlington, Mass.
 Rebecca Margulis, Burlington
 May Markin, B.A., M.A., Brooklyn, N. Y.
 Richard H. Marsh, Rockland, Me.
 Winnifred Marsh, Burlington
 Betty V. Martin, New York, N. Y.
 Leora Martin, Jeffersonville
 Shirley M. Martin, Chester
 Lucille L. Marville, B.S.ED., Eastondale, Mass.
 Katherine O. Mayo, B.S., Laconia, N. H.
 Julia A. McCarthy, West Rutland
 Sara H. McCormack (Mrs.), Middlebury
 Edith E. McCreedy, Randolph Center
 Elizabeth McCrudden, Trenton, N. J.
 Helen McCrudden, Trenton, N. J.
 Mary P. McElroy, St. Albans
 Alice J. McGee, Waterbury, Conn.
 Irene D. McGettrick (Mrs.), Winooski
 Graham W. McGowan, A.B., Burlington
 John A. McGrath, Rockville, Md.
 Bernice McKee, Morrisville
 Frances E. McKenna (Mrs.), Brattleboro
 Margaret F. McLaughlin, Bronxville, N. Y.
 Shirley E. McLaughlin, Middletown Springs
 John M. McNamara, A.B., M.A., New York, N. Y.
 Alice J. Merrill, South Newbury
 Marion L. Metcalf, Burlington
 Ben Michelson, Brooklyn, N. Y.
 Effie M. Miles, Manchester Center

Delta K. Millard (Mrs.), Hardwick
 Mildred L. Miller, Burlington
 Shirley W. Miller, B.ED., M.ED., Putney
 Ruth W. Millington (Mrs.), R.N., Burlington
 LeRoy C. Milner, Winooski
 Mary E. Mitiguy, Burlington
 Mary J. Moher, Rutland
 Marion C. Moore, B.S., M.A., Arlington, N. J.
 Irene E. Moroney, Rutland
 Mary E. Morrill, Augusta, Me.
 Chandler B. Mosher, B.S., M.ED., Hardwick
 Elizabeth B. Mosher, Hardwick
 Edna Moule, Montreal, Quebec
 Alfred M. Mueller, B.S., Oakland, Calif.
 Mrs. Alfred Mueller, B.M., Oakland, Calif.
 Mary L. Mueller, A.B., Oakland, Calif.
 Robert E. Mueller, Oakland, Calif.
 Anna T. Mullaney, West Rutland
 Lillian G. Mundy (Mrs.), B.S.ED., Ferrisburg
 M. Gladys Munnnett, Greenfield, Mass.
 Evelyn B. Munson (Mrs.), R.N., Burlington
 Ethel L. Murphy, Trenton, N. J.
 Eunice A. Murphy, Enosburg Falls
 Angus A. Murray, A.B., Williamstown
 Helen Marie Murray, Burlington
 Theresa D. Muzzy (Mrs.), Burlington
 Forrest G. Myrick, A.B., Montpelier
 Dora E. Needham (Mrs.), Whiting
 Gladys E. Neiburg, St. Albans
 Eleanor P. Neustadt, Nyack, N. Y.
 William A. Newton, B.S.ED., M.ED., North Ferrisburg
 Lucy A. Nichols, Longmeadow, Mass.
 Roberta M. Nichols, North Weare, N. H.
 Robert L. Norton, New York, N. Y.
 Helen D. Nurick, Brooklyn, N. Y.
 Joanne R. Obermaier, Brooklyn, N. Y.
 Ella M. O'Brien, Winooski
 Florence L. O'Brien, Waterbury
 Marian F. O'Brien, Winooski
 Ruth P. O'Connor (Mrs.), Vergennes
 Mary V. O'Hara, B.S., M.A., New York
 Lisa M. Olsson, Brooklyn, N. Y.
 Charles M. Orben, Jr., Millburn, N. J.
 Ellen F. Page, Burlington
 Evelyn E. Page, A.B., M.A., Richmond
 Hill, L. I., N. Y.
 Phyllis W. Page, Burlington

Herman M. Paikowsky, Burlington
 Louise B. Papineau (Mrs.), Swanton
 Rosalie B. Parker, Brooklyn, N. Y.
 Wilmond W. Parker, PH.B., M.A., Bethel
 Marion J. Parrott (Mrs.), B.S., Burlington
 Leonard Paul, Hamden, Conn.
 Grace L. Payne, Manchester Depot
 Houghton D. Pearl, Burlington
 Antoinette R. Pellegrino, Castleton
 Irma Pendleton, Portland, Me.
 Marjorie A. Perkins (Mrs.), South Burlington
 Ethel L. Perrotta, Burlington
 Amelia G. Perry (Mrs.), Fair Haven
 Katherine S. Perry, A.B., M.A., East Greenwich, R. I.
 Mildred G. Peters (Mrs.), St. Albans
 Charles H. Pfeifer, Jr., A.B., Montpelier
 Irene E. Phillips, Brooklyn, N. Y.
 Mildred R. Phillips (Mrs.), B.S., Bennington
 Ethel C. Pickard, A.B., Buffalo, N. Y.
 Harriet A. Pierce, Montpelier
 John M. Pierce, Springfield
 Ward H. Piper, Manchester, N. H.
 Anna V. Poklemba, Jersey City, N. J.
 Joseph L. Poore, Bellows Falls
 Lucille E. Porter (Mrs.), Chester Depot
 Marjorie Potter, Orleans
 Leonore E. Preston, East Thetford
 Lillian T. Prezzo, Brooklyn, N. Y.
 Ellery R. Purdy, Sr., B.S. IN EC., Rutland
 Blanche Putnoi, New York, N. Y.
 Ezra Putnoi, New York, N. Y.
 Mary M. Pyle, Franklin
 Helen M. Ransom, Burlington
 Margaret A. Ready, Burlington
 Doris Renfrew (Mrs.), Newport
 Anna S. Reynolds, Burlington
 Bessie H. Reynolds (Mrs.), Richford
 Louise H. Reynolds, B.A., Burlington
 Eunice M. Rice, West Burke
 Hylda E. Ricker, West Fairlee
 Rose D. Risikoff, B.A., M.A., Brooklyn, N. Y.
 Mabel Ritzman, Bethel, Conn.
 Helen E. Roakes, Winooski
 Doris E. Robbins, Brattleboro
 Elizabeth K. Robertson, B.S.ED., M.A., St. Joseph, Mo.
 Charlotte M. Rogers (Mrs.), Byfield, Mass.
 Doris S. Rogers, Randolph

- Corinne Ross, Brooklyn, N. Y.
 Dascomb P. Rowe, A.B., M.E.D., Waterbury
 Freda H. Rudd, Waterbury
 Marjorie L. Rumph, Atlantic Beach, L. I.
 Antoinette C. Russell, Windsor, Conn.
 Arlene E. Russell, Barton
 Emily K. Russell (Mrs.), A.B., Windsor, Conn.
 Frances M. Ryan, Cleveland, O.
 Leona R. Ryan, Springfield
 Nicole A. Sabbag, Staunton, Va.
 Romona R. Sabourin (Mrs.), Rutland
 Ruby A. Sanderson, Winsted, Conn.
 Abraham Scheinbaum, B.A., Brooklyn, N. Y.
 Hilda Schlesinger, New York, N. Y.
 Alice D. Schulz (Mrs.), Burlington
 Harold F. Schulz, Burlington
 Muriel A. Schwartz, B.A., New York, N. Y.
 Sheila N. Schwartz, B.A., New York, N. Y.
 Mary P. Schwyer, Burlington
 Helen E. Scott, A.M., Lewiston, Me.
 Donald H. Sears, Albany
 Mary B. Sennett, Poultney
 Lena M. Shaw, Quincy, Mass.
 Patricia E. Sheffert, Englewood, N. J.
 Dorothy B. Shepardson (Mrs.), Benson
 Barbara J. Sherman, New York, N. Y.
 Helen A. Shnitnikoff, New York, N. Y.
 Deborah M. Sibley, Bennington
 Edna M. Sickinger, Burlington
 Felix J. Siegl, B.S., Castleton
 Harriet C. Silver, A.B., A.M., Burlington
 Rita M. Silverberg, Jamaica, N. Y.
 Carolyn W. Simmons (Mrs.), Bethel
 Sylvia A. Skelly, Burlington
 Glenn W. Skiff, B.S., Jeffersonville
 Marion S. Smail (Mrs.), Williston
 Helen C. Smith, B.A., Montpelier
 Julia Smith, Burlington
 Kathleen S. Smith, B.E., Swanton
 Marjorie P. Smith (Mrs.), North Sheldon
 Rachel M. Smith (Mrs.), Williamstown
 Rosella B. Smith, Concord, N. H.
 Kathryn M. Sowles, Randolph
 Ellen L. Spafford (Mrs.), West Rutland
 Jason M. Spielberg, Flushing, L. I., N. Y.
 George R. Stackpole, Winooski
 Lois P. Stanley (Mrs.), Wells River
 Helen A. Stanton, B.S., Trenton, N. J.
 Rose M. Starratt, A.B., New York, N. Y.
 Barbara J. Stearns, Orleans
 Helen B. Stearns (Mrs.), St. Johnsbury
 Anastasia Stebbins, Shelburne
 Edward W. Steele, Jr., Burlington
 Edward W. Stefaniak, B.S., M.A., Middlebury
 Doris R. Steinberg, Long Island City, N. Y.
 Meredith Stern, Philadelphia, Pa.
 Claude G. Stevens, A.B., Barnesville, Ga.
 Blanche Stewart, N.F.U., Montreal, Quebec
 Frank O. Stiles, B.S., M.E., Fair Haven
 Elvira F. Suito (Mrs.), P.H.B., Waterbury
 Olive I. Sumner, New Haven
 Marion P. Sutton (Mrs.), Lyndonville
 K. Gladys Swain, Greenfield, Mass.
 Pauline S. Swan, Jamestown, N. Y.
 Leila M. Swanton, A.B., Edenville, Mich.
 Roxie J. Talbert, Saxtons River
 Barbara F. Tennien, Pittsford
 Dorothy D. Thayer, P.H.B., St. Albans
 Leona P. Thompson (Mrs.), Vergennes
 Patricia A. Thompson, Moretown
 Elsie A. Tinker, Burlington
 Theresa L. Tomasi, Burlington
 Bernadette P. Tosko, Cromwell, Conn.
 Betty J. Towle, Newport
 Phyllis E. Towne, Newport
 Helen N. Trombley (Mrs.), Bristol
 Katherine H. Turner, Winooski
 Grace A. Tyndall, Morrisville
 Barbara Ungerleider, Paterson, N. J.
 Jane Van Brunt, B.A., Longmeadow, Mass.
 Nancy Vochis, B.A., Manhattan, N. Y.
 Joan B. Vollmers, Rutherford, N. J.
 Ethel F. Wade (Mrs.), B.S., East St. Louis, Ill.
 Angeline F. Wakeman, South Norwalk, Conn.
 M. Alice Walter, Colchester
 Alice E. Warren (Mrs.), Rutland
 Avis V. Warren, Middlebury
 Emogene H. Watts (Mrs.), Waterbury Center
 Grace A. Webb, D.C., Burlington
 Katherine H. Wead, A.B., B.S. IN L.S., Hartford, Conn.
 Mayme S. Weeks (Mrs.), Hardwick
 Suzanne C. Weinig, Brooklyn, N. Y.
 Eileen Weiss, Jamaica, L. I., N. Y.
 Theodore D. Weiss, Burlington

- Jean R. Wesselmann, B.M., Buffalo, N. Y.
 Ethel L. West, Burlington
 Jane E. Westervelt, Burlington
 Bertha H. Weston, Cambridge
 Dorothy K. Whaley, St. Johnsbury
 Patricia Wheelock, Pleasant Ridge, Mich.
 Aleda L. White, Northfield
 Olive B. Whitehill (Mrs.), Newbury
 Alice S. Whitney (Mrs.), Wilmington
 Hazel V. Whitney, Adel, Iowa
 Bernard A. Wiggin, Williamstown
 Rose S. Wilbur (Mrs.), Glover
 Catherine A. Wilcox, A.B., M.E.D., Barton
 Catherine Ann Wilcox, Hudson, Mass.
 Ruth K. Wilkie, Boston, Mass.
 Ruth P. Willard, B.E.D., Burlington
 Florence I. Williams, Eastford, Conn.
 Robert G. Williams, Middletown, Conn.
 Rose W. Wisell (Mrs.), Waterbury
 Marion Witters, Ph.B., M.A., St. Albans
 Elizabeth Wood, Staten Island, N. Y.
 Katherine Y. Wood (Mrs.), B.S., Staten Island, N. Y.
 Josephine G. Woodlock, A.B., New York, N. Y.
- Norma L. Woodruff, Jericho
 Gordon G. Woods, St. Johnsbury
 Herbert C. Wormwood, East Barnet
 Oliata F. Wright (Mrs.), Middlebury
 Gladys G. Wrisley (Mrs.), Waterbury
 Anne E. Yarrington, B.S., ED.M., Freehold, N. J.
 Pauline E. Yasinski (Mrs.), B.S., Fair Haven
 Joan Yeager, Mishawakee, Ind.
 Dorothy H. Yeaton, B.S., ED.M., Lynn, Mass.
 Margaret W. Young (Mrs.), B.S.ED., Burlington
 Mollie B. Young, Castleton
 Phyllis N. Yuder, Brooklyn, N. Y.
 Evangeline F. Zackey, A.B., Roslyn, Pa.
 Anna R. Zager (Mrs.), B.A., Forest Hills, N. Y.
 Ruth P. Zager, A.B., Forest Hills, N. Y.
 Charlotte J. Zaifert, Brooklyn, N. Y.
 Howard L. Zauder, Brooklyn, N. Y.
 Birgit Zondek, New York, N. Y.
 Helen Zvirin, M.A., Larchmont, N. Y.

STUDENTS IN RESIDENCE, FALL 1946

COLLEGE OF ARTS AND SCIENCES:

	MEN	WOMEN	TOTAL
Class of 1947	38	67	105
Class of 1948	60	95	155
Class of 1949	115	107	222
Class of 1950	179	76	255
Total	392	345	737
In-state veterans	217	6	223
Out-state veterans	89	4	93
Total	306	10	316
In-state non-veterans	66	168	234
Out-state non-veterans	20	167	187
Total	86	335	421
In-state students	283	174	457
Out-state students	109	171	280
Total	392	345	737

BY CURRICULA:

(1) Liberal Arts

	MEN	WOMEN	TOTAL
Language and Literature	27	105	132
Music	3	3	6
Pre-dental	18	2	20
Pre-law	19	1	20
Pre-veterinarian	11	1	12
Science and Mathematics	37	47	84
Social Sciences	69	99	168
Undecided	28	42	70
Total (L.A.)	212	300	512

(2) Medical Technology

(3) Pre-medical

(2) Medical Technology	5	17	22
(3) Pre-medical	175	28	203
Total	392	345	737

COLLEGE OF TECHNOLOGY:

	MEN	WOMEN	TOTAL
Class of 1947	34	14	48
Class of 1948	54	12	66
Class of 1949	181	19	200
Class of 1950	246	19	265

Total	515	64	579
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In-state veterans	368	6	374
Out-state veterans	88	2	90

Total	456	8	464
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In-state non-veterans	53	36	89
Out-state non-veterans	6	20	26

Total	59	56	115
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In-state students	421	42	463
Out-state students	94	22	116

Total	515	64	579
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BY CURRICULA:

	MEN	WOMEN	TOTAL
Commerce and Economics (Business Administration)	187	15	202
Commerce and Economics (Commercial Teaching)	1	11	12
Commerce and Economics (Secretarial Practice)	0	24	24
Engineering—Civil	56	2	58
Engineering—Electrical	114	0	114
Engineering—Mechanical	122	2	124
Engineering—(Undecided)	2	1	3
Professional Chemistry	33	9	42
Total	515	64	579

COLLEGE OF AGRICULTURE:

	MEN	WOMEN	TOTAL
Class of 1947	15	16	31
Class of 1948	13	29	42
Class of 1949	21	22	43
Class of 1950	53	26	79
Total	102	93	195
In-state veterans	76	5	81
Out-state veterans	13	0	13
Total	89	5	94
In-state non-veterans	13	56	69
Out-state non-veterans	0	32	32
Total	13	88	101
In-state students	89	61	150
Out-state students	13	32	45
Total	102	93	195
BY CURRICULA:	MEN	WOMEN	TOTAL
Agriculture	102	7	109
Home Economics	0	86	86
Total	102	93	195

SCHOOL OF EDUCATION AND NURSING:

	MEN	WOMEN	TOTAL
Class of 1947	8	31	39
Class of 1948	14	43	57
Class of 1949	25	52	77
Class of 1950	24	43	67
Class of 1951	0	9	9
Total	71	178	249
In-state veterans	53	21	74
Out-state veterans	9	6	15
Total	62	27	89
In-state non-veterans	8	136	144
Out-state non-veterans	1	15	16
Total	9	151	160
In-state students	61	157	218
Out-state students	10	21	31
Total	71	178	249

BY CURRICULA:

	MEN	WOMEN	TOTAL
Education—Elementary	2	94	96
Education—Junior High School	2	1	3
Education—Music	5	15	20
Education—Secondary	62	35	97
Nursing	0	33	33
Total	71	178	249

UNCLASSIFIED DIVISION:

	MEN	WOMEN	TOTAL
Special students	20	11	31
In-state veterans	14	2	16
Out-state veterans	0	0	0
Total	14	2	16
In-state non-veterans	4	6	10
Out-state non-veterans	2	3	5
Total	6	9	15
In-state students	18	8	26
Out-state students	2	3	5
Total	20	11	31

GRADUATE DIVISION:

	MEN	WOMEN	TOTAL
Graduate students	44	13	57
In-state veterans	33	3	36
Out-state veterans	5	0	5
Total	38	3	41
In-state non-veterans	3	6	9
Out-state non-veterans	3	4	7
Total	6	10	16
In-state students	36	9	45
Out-state students	8	4	12
Total	44	13	57

COLLEGE OF MEDICINE:

	MEN	WOMEN	TOTAL
Class of 1947	33	2	35
Class of 1948	37	3	40
Class of 1949	34	6	40
Class of 1950	31	9	40
Graduate students	2	0	2
Special (unclass.)	1	0	1
Total	138	20	158

	MEN	WOMEN	TOTAL
In-state veterans	46	0	46
Out-state veterans	42	1	43
Total	88	1	89
In-state non-veterans	21	7	28
Out-state non-veterans	29	12	41
Total	50	19	69
In-state students	67	7	74
Out-state students	71	13	84
Total	138	20	158

SUMMARY OF RESIDENT ENROLLMENT

FALL QUARTER 1946

THE UNDERGRADUATE COLLEGES

	MEN	WOMEN	TOTAL
College of Arts and Sciences	392	345	737
College of Technology	515	64	579
College of Agriculture	102	93	195
School of Nursing and Education	71	178	249
Unclassified Division 7	20	11	31
Total	1100	691	1791

THE GRADUATE DIVISION

	44	13	57
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THE COLLEGE OF MEDICINE

	138	20	158
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Total	1282	724	2006
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THE UNDERGRADUATE COLLEGES BY CLASSES:

	MEN	WOMEN	TOTAL
Class of 1947	95	128	223
Class of 1948	141	179	320
Class of 1949	342	200	542
Class of 1950	502	164	666
Class of 1951	0	9	9

Total	1080	680	1760
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In-state veterans	807	43	850
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Out-state veterans	246	13	259
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Total	1053	56	1109
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In-state non-veterans	168	415	583
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Out-state non-veterans	61	253	314
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Total	229	668	897
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	MEN	WOMEN	TOTAL
In-state (veterans & non-veterans)	975	458	1433
Out-state (veterans & non-veterans)	307	266	573
Total	1282	724	2006

In addition to the above regularly enrolled students are the following:

	MEN	WOMEN	TOTAL
Pre-clinic Nurses (fall term only)	0	42	42
Refresher Medical Students (veterans)	4	0	4
Resident Fellows (Medical) (veterans)	13	0	13
Total	17	42	59

GRAND TOTAL FALL QUARTER 2065

Degrees Awarded, 1945-1946

GRADUATED OCTOBER 20, 1945

ELEMENTARY EDUCATION

BACHELORS OF EDUCATION

Marilyn Elizabeth Cheney, Rutland
Mary Hines Corriveau, Passumpsic
Mary Therese Hayes, Fair Haven

Kathryn Elizabeth Hubbard, Burlington
Marjorie Emily Lutkins, Hackensack, N. J.

THE COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Richard Harold Parker, Rochester

THE COLLEGE OF ARTS AND SCIENCES

BACHELOR OF SCIENCE IN COMMERCE AND ECONOMICS

Phyllis Elmira Lowe, Milton, Mass.

BACHELORS OF SCIENCE IN MEDICAL TECHNOLOGY

Gertrude Austin Bray, Brattleboro

Dorothy Loughery Noa, New Haven,
Conn.

BACHELOR OF ARTS

Grace Lucile Perry, Burlington

ADVANCED DEGREES

MASTERS OF EDUCATION

Arthur Benjamin Elliott, A.B., University of Michigan, 1929
 John Avelino Freitas, PH.B., Boston College, 1934
 Elizabeth Bodine Johnson, B.A., Montclair State Teachers College, 1937
 John Norman Murray, A.B., Cedarville College, 1934
 David Samuel Offensend, B.S. IN ED., Boston University, 1940
 Lawrence Henry Walker, B.S. IN ED., American International College, 1934
 Louise Moor Walls, B.S., Fitchburg State Teachers College, 1937

MASTERS OF ARTS

PSYCHOLOGY

Stella Marion Adams, B.S., University of New Hampshire, 1927
Thesis: The Effect of Unlimited Response Time Upon Intelligence Ratings

ENGLISH

Sister Mary Eucharia Menster, B.A., College of St. Rose, 1936
Thesis: Newman—The Educator

COMMENCEMENT — APRIL 3, 1946

THE COLLEGE OF MEDICINE

DOCTORS OF MEDICINE

Donald Thomas Akey, Burlington
 Edna Frances Dole Backup, *cum laude*,
 B.S., Jericho
 Phillip Henry Backup, A.B., Jericho
 Frederick Charles Barrett, B.S., Milton
 Edward Robert Bove, B.S., Rutland
 Saul Boyarsky, *cum laude*, B.S., Burlington
 William Joseph Clark, Jr., *cum laude*,
 B.S., Scarsdale, N. Y.
 Rudolph Lester Coletti, B.S., Barre
 George Herbert Dickinson, Jr., B.S., Meri-
 den, Conn.
 Wilfred Theodore Elliott, B.ED., B.S., St.
 Johnsbury

Lester Frank, B.S., Burlington
 John Riess Fuller, B.S., Burlington
 Russell Francis Gervais, B.S., Winooski
 Richard Carman Hay, B.S., Burlington
 Lloyd Norman Hazen, B.S., Richmond
 Stedman George Huard, B.S., Winooski
 Charles Irwin, *cum laude*, B.S., M.S., New
 London, Conn.
 Patrick Anthony Izzo, Quechee
 Thomas Joseph Keighley, B.S., Burlington
 Albert Clark Kinney, Jr., A.B., Hardwick
 Howard Hodgson MacDougall, B.S., Ham-
 mondon, N. J.
 John Francis McGarry, A.B., Proctor

James Bishop McGill, B.S., St. Johnsbury
 John Joseph McGrath, B.S., M.ED., Adams,
 Mass.
 Harmon Jack Machanic, B.S., Burlington
 Gilbert Manheim, *cum laude*, B.S., Rutland
 Thomas Patrick Mullaney, Jr., Barton
 John Edwin Nichols, B.S., Rutland
 Gerald Francis Parkhurst, B.S., Burlington
 Jay Roger Plimpton, A.B., Harrison, N. Y.

Thomas Rider Plowright, B.S., Goffstown,
 N. H.
 Shirley Geraldine Price, B.S., Springfield
 Louis Michael Rozek, B.S., Berlin, N. H.
 Robert Alden Struthers, A.B., Portland,
 Ore.
 LeGrand Hendry Thomas, B.S., Burlington
 Frederick Henry Treder, B.S., Scotia, N. Y.

PRIZES

CARBEE PRIZE

*For Greatest Proficiency in the Subject of
 Obstetrics*

Edna Dole Backup, B.S.

WOODBURY PRIZES IN MEDICINE

*For Greatest Proficiency in Clinical Work
 in Senior Year*

John Riess Fuller, B.S.

Gerald Francis Parkhurst, B.S.

*To the Sophomore Having the Highest
 Standing for Two Years of Medical Work*

Cleveland Ray Denton, B.S.

NU SIGMA NU MERIT AWARDS

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

Robert Dore Gittler

*To the Outstanding Student in the Junior
 Class*

Robert Charles Doherty, A.B.

COMMENCEMENT — MONDAY, JUNE 17, 1946

ELEMENTARY EDUCATION

BACHELORS OF EDUCATION

Jennie Lois Baker, Essex Junction
 Betty Johnson Bartlett, Burlington
 Leola Isabelle Brown, Burlington
 Eleanor Palmer Brownell, *Music Education*,
 Burlington
 Alison Mae Cady, Rutland
 Margaret Hooper Carter, Groton
 Margaret Mahar Cook, Poultney
 Loraine Guild Crane, Burlington
 Lorraine Mary Farrell, *Music Education*,
 Shelburne

Beverly Grace Fifield, Newport
 Rachael May Giddings, Ludlow
 *Florence Gertrude Greene, Burlington
 Martha Perry Lyon, St. Albans
 June Delight Merrihew, Burlington
 Elisabeth Mary Naess, *Music Education*,
 Ludlow
 Norma Kathleen Prescott, St. Johnsbury
 Center
 Lorene Bessie Vondle, Stowe

* As of October 20, 1945.

COLLEGE OF AGRICULTURE

BACHELORS OF SCIENCE IN AGRICULTURE

John Willard Baxendale, Burlington
 Alan Russell Corwin, Chelsea

Wendell George Earle, East Hardwick
 John Kenneth Holden, Burlington

BACHELORS OF SCIENCE IN HOME ECONOMICS

Eleanor Elaine Anderson, Essex Junction
 Virginia Rae Benedict, Burlington
 Harriet Jean Bristol, Burlington
 Genevieve Eva Campbell, Strafford
 Charlotte Geraldine Chaffee, Enosburg Falls
 Elizabeth Graeme Clark, Burlington
 Nancy Alice Dockstader, Amityville,
 N. Y.

Francelia Connor Earle, Burlington
 Phyllis Mary Edgerton, Burlington

Betsy May Gillinder, Port Jervis, N. Y.
 Phyllis Marie Hardy, Putney
 Barbara Fuller Law, Springfield, Mass.
 Nancy McNamara, Burlington
 Alice Lynette Miller, Greensboro
 Rachel Alberta Murray, Charlotte
 Ann Leffingwell Noble, Bethel
 Alberta Martha Read, East Fairfield
 Ruth Margaret White, Wallingford

COLLEGE OF ENGINEERING

BACHELORS OF SCIENCE IN MECHANICAL ENGINEERING

Charles Arthur Plumley, Ludlow

Delia Kingsbury Snell, Cambridge

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF SCIENCE IN CHEMISTRY

Mary Thorne Greene, Morrisville

BACHELORS OF SCIENCE IN COMMERCE AND ECONOMICS

Allene Elizabeth Beattie, St. Johnsbury
 Mary Alberta Boardman, Burlington
 William Roy Cook, Jr., Burlington
 *Griswold Bruce Holman, Jr., Rutherford, N. J.
 Iola Wanda Hopkinson, Lewiston, Me.
 Mary Jane Little, Rochester, N. Y.
 Robert William Morris, Vergennes

Samuel Robert Pulleyn, New York, N. Y.
 Robert Myer Rosenberg, Jr., Burlington
 Maud Elsa Schoelles, Glen Cove, N. Y.
 Olga Amelia Schoelles, Glen Cove, N. Y.
 Amanda Zardecki Shuttleworth, Belvidere,
 N. J.
 Gail Thompson, Worcester, Mass.

BACHELORS OF SCIENCE IN EDUCATION

Julia Elizabeth Field, North Ferrisburg
 Helen Wolf Machanic, Burlington
 Barbara Frances Morgan, Bennington

Florence Esther Reid, Burlington
 Hilary Lee Shelvin, Brighton, Mass.

* As of October 20, 1945.

BACHELOR OF SCIENCE IN MUSIC EDUCATION

Elizabeth Teresa Rome, Dobbs Ferry, N. Y.

BACHELOR OF SCIENCE IN NURSING EDUCATION

Grace Martin Buttolph, Shoreham

Pauline Elizabeth Yasinski, *cum laude*,
Fair Haven

BACHELORS OF SCIENCE

Constance Wheeler Brownell, Burlington

†Stanley Samuel Fieber, Brooklyn, N. Y.

‡Maurice Leslie Kelley, Montpelier

BACHELORS OF ARTS

*Marjorie Ina Alexander, Irasburg
Barbara Smith Anderson, Montclair, N. J.
Carolyn Esther Aronson, *cum laude*, Proctor

Ruth Marie Baker, Irvington, N. J.
Harriet Natalie Barron, Roxbury, Mass.
Doris Ostergren Barton, Cobalt, Conn.

Mary Lesley Bell, Barre
Chestine Etta Brown, Groton
Elsie Katherine Bruce, Malone, N. Y.
Virginia Campbell, *cum laude*, Lyndonville

Richard Freeman Chamberlin, Wells River
Diana Joan Charles, Locust Valley, N. Y.
Helen Virginia Coffman, Burlington
Harriet Cohen, Worcester, Mass.
Janice Cecile Commanday, New York, N. Y.

Elizabeth Lea Dole, Burlington
Ida Marguerite Donnelly, Philadelphia, Pa.
Mary Jean Allerton Dunsmore, St. Albans
Glory Ann Farmer, Fair Haven
Michael Greenfield, New York, N. Y.
David Powell Hackett, *magna cum laude*, Washington, D. C.

Nancy Eleanor Hall, Burlington
Natalie Ruth Harris, Hartford, Conn.
Shirley Dorothy Harris, Brooklyn, N. Y.
Anne Louise Hoos, Union, N. J.
Isabel Lucy Jackson, Beebe Plain
Lorraine Heath Kaplan, Hartford, Conn.

* As of October 20, 1945.

† As of June 20, 1945.

‡ As of the Class of 1917.

Elizabeth Lyons Kelley, *cum laude*, Washington, D. C.

Elinor Konowitz, Brookline, Mass.

*Jean Hooker Lanphere, Newport

Frances Jean Lawliss, Richford

Mary Backer LeFevre, Burlington

Miriam Lipman, West Hartford, Conn.

Betty Kellogg Mansfield, Verona, N. J.

Kathryn May McGillicuddy, Burlington

Jane Frances McNeill, Beacon, N. Y.

Olive Mae Morris, Poultney

Mary-Louise Pierce, Montpelier

Barbara Nettie Powers, Brattleboro

Irene Catherine Reed, Burlington

Laurel Hansen Reed, Northfield

Mary Louise Robinson, Burlington

Virginia St. Germain Rozek, Berlin, N. H.

Marylee Eliza Russell, North Ferrisburg

Ruth Elizabeth Schoppe, Canaan

Louise Wallace Shutler, Northfield

Howard Simon Stein, Brooklyn, N. Y.

Jacquelyn Frances Swasey, Cornish, Me.

Mary Jane Thornton, Burlington

David Chase Tuholski, Brockton, Mass.

Margaret Hanna Watts, Jamaica

Anna Capen Webster, Randolph

Pearl Leah Weissbard, *cum laude*, Maplewood, N. J.

Frances Maybelle Witham, Burlington

Catherine Sanders Zwick, New Britain, Conn.

ADVANCED DEGREES

MASTERS OF EDUCATION

Albert Philias Dauphin, B.E., Castleton Normal School, 1941

Thomas Eccleston, Jr., Ph.B., Brown University, 1932

Austin Luther Olney, B.S., Central Michigan College of Education, 1937

Richard Joseph Race, A.B., Colby College, 1929

MASTERS OF ARTS

ENGLISH

Margaret Gertrude Palmer, B.S. IN ED., Worcester State Teachers College, 1931

Thesis: The Small Town in American Fiction

POLITICAL SCIENCE

John Willoughby Robinson, Ph.B., University of Vermont, 1938

Thesis: Consistencies and Inconsistencies of the Supreme Court in Its Invalidations of Federal Legislation

MASTER OF SCIENCE

BIOCHEMISTRY

Elizabeth Charlotte Paulsen, A.B., Skidmore, 1944

Thesis: Gastric Emptying of Cereal Starch in the Rat and its Relation to Digestion and Absorption

CIVIL ENGINEER

Clarence Joseph Douglas, B.S., University of Vermont, 1929

Thesis: The Design and Construction of Engineer Replacement Training Centers for World War II

DEGREES HONORIS CAUSA

MASTER OF ARTS

Mary Everett Pease, A.B.

DOCTORS OF SCIENCE

Samuel Warren Hamilton, M.D.

Nathan Raymond Smith, B.S.

SPECIAL HONORS

ENGLISH

Harriet Cohen

Thesis: A Criticism of John Ruskin's Theories of Painting

Barbara Nettie Powers

Thesis: Dostoyevsky's Influence on English Novelists

PRIZES

THE ELWIN L. INGALLS 4-H PRIZE

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

Jeanne Carolyn Ayers, '47

THE GERMAN LITERARY PRIZE

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

Gertrude Ellen Cheney, '47

THE KIRBY FLOWER SMITH LATIN PRIZE

Julia Lucy Hurley, '48

THE EDWARD PAGE BUTLER DEBATING PRIZES

Awarded for Proficiency in Debate

First: Eileen Pickett Prairie, '47

Second: Leona Cora Felix, '48

Third: Mildred Trachtenberg, '47

THE ROBERT ASHTON LAWRENCE DEBATING PRIZES

Awarded for Proficiency in Debate

First: Stanley Lloyd Golden, '48

Second: David Powell Hackett, '46

Third: { Benjamin Bursten, '48
Peter Saltonstall Mallett, '47

THE HANNAH 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

Pearl Leah Weissbard, '46

Frances Maybelle Witham, '46

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

Nancy Eleanor Hall, '46

THE PHELPS PRIZE IN CIVIL ENGINEERING

Given for conspicuous merit in professional studies and high and noble traits of personal character

Bartholomew David Barry, '46

THE BIRNBAUM PRIZE

Awarded to that senior who during his college course has best exemplified the University traditions of democracy and friendliness

Bartholomew David Barry, '46

THE FRED T. KIDDER MEDAL

Awarded for Character, Leadership, and Scholarship

David Powell Hackett, '46

The Alumni Council

This organization was formed May 1, 1920.

The object of the Council is to advance the interest, influence, and efficiency of the University of Vermont; to strengthen the relations between the alumni and the University; to encourage sufficient class organization; to keep the public informed in regard to the University; to keep before the various preparatory schools of the country the advantages of the University of Vermont as an educational institution; to aid and assist in the establishment of alumni associations and promote their interests; to report from time to time to the Board of Trustees of the University any facts and recommendations by the Council deemed material or for the interests of the University; to act as a medium that may make known the ideas of the alumni to the University, and wishes of the University to the alumni; to keep in touch with the undergraduate activities, and to act in an advisory capacity through the Executive Committee and office of Alumni Council to such of the undergraduates as may desire to consult it in reference to their occupations after graduation, and for that purpose to keep in as close a touch as possible with the demands of the country's professional, business and industrial needs.

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

PRESIDENT—Frederick S. Harris, '22, 10 Colony St., Meriden, Conn.

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

ALUMNI OFFICE—Waterman Building, Burlington, Vt.

HONORARY MEMBERS—President John S. Millis, Dr. Clarence H. Beecher, Proctor H. Page.

EX-OFFICIO MEMBER—George V. Kidder, '22, Administrative Secretary of the University, Treasurer of the Alumni Fund.

CLASS REPRESENTATIVES

1893 Frank R. Wells, 185 Summit St., Burlington, Vt.

1894 Arthur C. Crombie, The A. C. Lumber Co., 220 East 42nd St., New York City.

1895 M. Shaler Allen, 76 South Ave., New Canaan, Conn.

1896 Lawrence Barnes Hayward, 216 So. Willard St., Burlington, Vt.

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

- 1898 Louis C. Dodd, 29 Oakland Place, Buffalo, N. Y.
1899 Carl B. Brownell, 70 Robinson Parkway, Burlington, Vt.
1900 Dr. Julius E. Dewey, 139 State St., Montpelier, Vt.
1901 Samuel S. Dennis, 129 Corey Ave., West Roxbury, Mass.
1902 Harry P. Hudson, 1128 Longmount Ave., San Gabriel, Calif.
1903 Hollis E. Gray, 209 King St., Burlington, Vt.
1904 Elmer E. Gove, Shelburne Rd., Burlington, Vt.
1905 Kathryn M. Coventry, 312 So. Winooski Ave., Burlington, Vt.
1906 Dr. Sidney Mitchell, 71 Court St., Plattsburg, N. Y.
1907 Mrs. Helen A. Skinner, 25 Church St., St. Johnsbury, Vt.
1908 William L. Blanchard, 89 Walton Park, Melrose Highlands, Mass.
1909 William L. Gardner, 17 Overlake Park, Burlington, Vt.
1910 Albert Valentine Kieslich, 167 North Ave., Burlington, Vt.
1911 Dr. Robert Leland Maynard, 289 College St., Burlington, Vt.
1912 Albert L. Gutterson, 49 Cherry Hill, Springfield, Vt.
1913 Everett I. Soule, 25 Stowell St., St. Albans, Vt.
1914 Seth P. Johnson, Williston, Vt.
1915 Harold A. Mayforth, 179 No. Prospect St., Burlington, Vt.
1916 Morris R. Wilcox, 152 Lyman Ave., 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 So. Prospect St., Burlington, Vt.
1920 Jesse E. Squires, Jericho, Vt.
1921 Mrs. Ruth Harrington Lane, 47 Hillcrest Rd., Burlington, Vt.
1922 Lawrence F. Killick, 10 Greene St., Burlington, Vt.
1923 Bartholomew F. Garrity, 87 No. Prospect St., Burlington, Vt.
1924 Richard D. Aplin, 121 Winslow Rd., Waban, Mass.
1925 Thomas D. Cook, 101 Robinson Parkway, Burlington, Vt.
1926 Olney W. Hill, 539 St. Paul St., Burlington, Vt.
1927 Mrs. Pauline Perkins Gurney, 50 Hillcrest Rd., Burlington, Vt.
1928 Kenneth H. Gurney, 50 Hillcrest Rd., Burlington, Vt.
1929 Constans M. Holden, 257 So. Union St., Burlington, Vt.
1930 Mary E. Waddell, 137 No. Winooski Ave., Burlington, Vt.
1931 Frederick J. Reed, 44 Overlake Pk., Burlington, Vt.
1932 James W. Marvin, South Burlington, Vt.
1933 James E. Bigelow, Bellows Falls, Vt.
1934 Donald J. Tobin, 910 Highland Ave., Bellefonte, Wilmington, Del.
1935 Richard Woodard, 118 Barre St., Montpelier, Vt.
1936 Mrs. Mary Whitney Rowe, Wells River, Vt.
1937 Mrs. Sally Carr Matthews, 474 So. Union St., Burlington, Vt.
1938 Donald B. Carpenter, Beech Spring Dr., Studio Apt. 3, Summit,
N. J.

- 1939 Mrs. Priscilla Savage Watt, Stowe, Vt.
1940 Mary C. Nelson, 8 St. Johns Rd., Cambridge, Mass.
1941 Mrs. Jane Allen Hadley, 36 Oakland Beach Rd., Rye, N. Y.
1942 Dr. Joanna J. Metcalf, 21 Union St., Waterbury, Vt.
1943 Janet A. Hackwell, 15 Spring St., Montpelier, Vt.
1944 Elizabeth A. White, Pittsford, Vt.
1945 Willson Daily, 1422 West Ontario St., Philadelphia 40, Pa.
1946 Frances M. Witham, 41 So. Prospect St., Burlington, Vt.

MEMBERS-AT-LARGE

Term Expires 1947

- Leon W. Dean, '15, 308 So. Prospect St., Burlington, Vt.
Hovey Jordan, '13, 449 So. Prospect St., Burlington, Vt.
Maurice L. Kelley, '17, 8 Baldwin St., Montpelier, Vt.
Lyman S. Rowell, '25, 38 Cliff St., Burlington, Vt.

Term Expires 1948

- James R. Jennings, '21, 'Street & Smith,' 122 East 42nd St., New York City.
Rev. Robert F. Joyce, '17, St. Peter's Church, Rutland, Vt.
Louis Lisman, '31, 374 So. Union St., Burlington, Vt.
Loren F. Palmer, '29, 308 Maple St., Burlington, Vt.

Term Expires 1949

- Willis R. Buck, '19, 414 Colchester Ave., Burlington, Vt.
Raymond E. Holway, '25, Provident Mutual Life Ins. Co., 404 Service Bldg., Rutland, Vt.
Mrs. Eleanor Lockwood Nowlin, '28, 230 So. Winooski Ave., Burlington, Vt.
Frederick W. Shepardson, '12, 101 Ledge Rd., Burlington, Vt.

Term Expires 1950

- David W. Howe, '14, 385 So. Prospect St., Burlington, Vt.
J. Hervey Macomber, Jr., '24, 94 Church St., Burlington, Vt.
Philip J. Ross, '95, Manhattan Life Bldg., 120 West 57th St., New York City.
Mary Jean Simpson, '15, 61 No. Prospect St., Burlington, Vt.

Term Expires 1951

- Mrs. Gwynneth Jones Aiken, '37, 44 University Terr., Burlington, Vt.
Thomas J. Mulcare, '09, 414 Mt. Auburn St., Cambridge, Mass.
Mrs. Carolyn Chamberlain Briggs, '18, 82 Overlake Pk., Burlington, Vt.
Fred B. Wright, '05, 195 Broadway, New York City.

CLUB REPRESENTATIVES

Out-of-State

Greater Boston—Henry Semans, '24, 227 Callender St., Dorchester, Mass.
Southern California—Mrs. Blanche Montgomery Corley, '17, 501 No. Citrus Ave., Los Angeles, Calif.

Chicago—Harold C. Carter, '25, 1300 So. Courtland Ave., Park Ridge, Ill.
Hartford Alumnae—Erminie L. Pollard, '24, 7 Shultas Pl., Hartford, Conn.
Hartford Alumni—Charles Henry Blackall, '27, 36 Pearl St., Hartford, Conn.

Connecticut State Alumni—Frederick S. Harris, '22, 10 Colony St., Meriden, Conn.

New York Alumni—Harold M. Robinson, '06, U. S. Chamber of Commerce, 1724 Graybar Bldg., New York City.

New York Alumnae—Mrs. Eleanor Koenig Hirte, '31, 55 St. Clair Ave., Rutherford, N. J.

New York Medical Alumni—Dr. Allen M. Margold, '25, 84 West Ave., South Norwalk, Conn.

Western New York Alumni—Charles F. Blair, '99, 810 White Bldg., Buffalo, N. Y.

Washington, D. C.—Dr. Samuel W. Hamilton, '98, 3700 Massachusetts Ave., Washington, D. C.

Worcester County—George S. Flagg, '15, 4 Robert Ave., Auburn, Mass.

Vermont

Addison County—Arthur B. Delano, '11, Shoreham, Vt.

Burlington Alumni—Lemuel J. Peet, '28, 14 Brewer Pkwy., Burlington, Vt.

Burlington Alumnae—Mary O. Boynton, '94, 31 So. Prospect St., Burlington, Vt.

U. V. M. Medical—Dr. Peter P. Lawlor, '20, 65 Pine St., Burlington, Vt.

Caledonia County—James B. Campbell, '09, 15 Summer St., St. Johnsbury, Vt.

Bennington County—Walter C. Wood, '16, 317 Washington Ave., Bennington, Vt.

Franklin and Grand Isle Counties—Robert W. Ready, '24, Franklin Co. Savings Bank Bldg., St. Albans, Vt.

Lamoille County—Mrs. Priscilla S. Davison, '23, Morrisville, Vt.

Orleans and Essex Counties—Roger D. Whitcomb, '38, P. O. Bldg., Newport, Vt.

Rutland County—Walter Belding, '11, 79 Davis St., Rutland, Vt.

Springfield—Dr. Paul C. T. Bacon, '33, 108 Summer St., Springfield, Vt.

Washington County (Orange, Williamstown and Washington)—Preston C. Cummings, '34, 20 Huntington Ave., Barre, Vt.
Windham County—Edmund M. Root, '17, 66 Green St., Brattleboro, Vt.
Windsor County—Robert M. Bent, '35, Windsor, Vt.

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 forty-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 seven 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 over two thousand dollars.

THE JUDEVINE FUND was established by the late Allen E. Judevine as a memorial to his son, Cornelius A. Judevine, 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 thirty-one 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 DR. JOSEPH E. LUMBARD LOAN FUND was established in 1946 by the gift of Mr. J. Edward Lumbard, Jr. Loans are made to needy and deserving students in the College of Medicine.

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 of six hundred dollars is available 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. 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 one thousand 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 MERSE 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.

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 EDWARD EVERETT HAWES FUND, founded in 1946 by bequest of Dr. Edward Everett Hawes of Hyannis, Mass., provides scholarship aid for "needy and deserving medical students" in the University.

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 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, and scholastic ability.

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 BIRNBAUM PRIZE of twenty-five dollars, given by Bernard A. Birnbaum of Cedarhurst, N. Y., is awarded annually by the University Council, acting on the nomination of the student body, to that senior who during his college course has best exemplified the University traditions as to democracy and friendliness.

THE B'NAI B'RITH PRIZE of twenty-five dollars is given annually by the Joseph Frank Lodge to that student at the University who in the opinion of the Committee on Religious Life has done most to encourage inter-faith cooperation and activities.

THE BURPEE AWARD IN HORTICULTURE, an annual award of one hundred dollars made possible by a grant from the W. Atlee Burpee Company, Seed Growers, of Philadelphia, Pa., and Clinton, Iowa, is made on the basis of scholarship, practical experience, and interest in flower and vegetable growing.

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 typewritten, double space, on white paper 8½ by 11 inches in size. Each essay is to be signed by a fictitious name, the identification of which must be given in an accompanying sealed envelope bearing on the outside the fictitious name which was used. All essays considered in the competition must reach the Department of History by April 15. The department will submit the best essays for a selection for award, to an outside judge, who may withhold the prize if no essay submitted reaches a sufficiently high standard.

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

THE ELWIN LEROY INGALLS PRIZE 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 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 Freshman and Sophomore men for the best declamations of passages of oratorical prose. There are three prizes, the first being twenty-five dollars, the second, fifteen dollars and the third, ten dollars. These prizes were given for many years by the late Darwin P. Kingsley of the Class of 1881, and have recently been continued by Mrs. Kingsley.

THE LAWRENCE DEBATING PRIZES were established by Edwin Winship Lawrence, of the Class of 1901. The first group of prizes is established in memory of the donor's brother, Robert Ashton Lawrence, '99, and is offered annually to students who, in the judgment of the English department of the University, exhibit the greatest proficiency in debate. The one thousand dollar fund provides three annual prizes.

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

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

THE LOYAL LEGION SABER, a regulation commissioned officers' saber, suitably inscribed, has been presented annually since 1931 by the Vermont Commandery of the Military Order of the Loyal Legion to that student

of the graduating class who attains the highest standing in the Reserve Officers' Training Corps.

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

THE SEYMOUR HORTICULTURAL FUND, amounting to twenty-five hundred dollars, was given by William W. Seymour in memory of his father, Henry E. Seymour of the Class of 1835. The income from the fund is used for the library and other expenses of the Horticultural Department, and for a prize to that member of the senior class who has done the best work in original horticultural research.

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

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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