

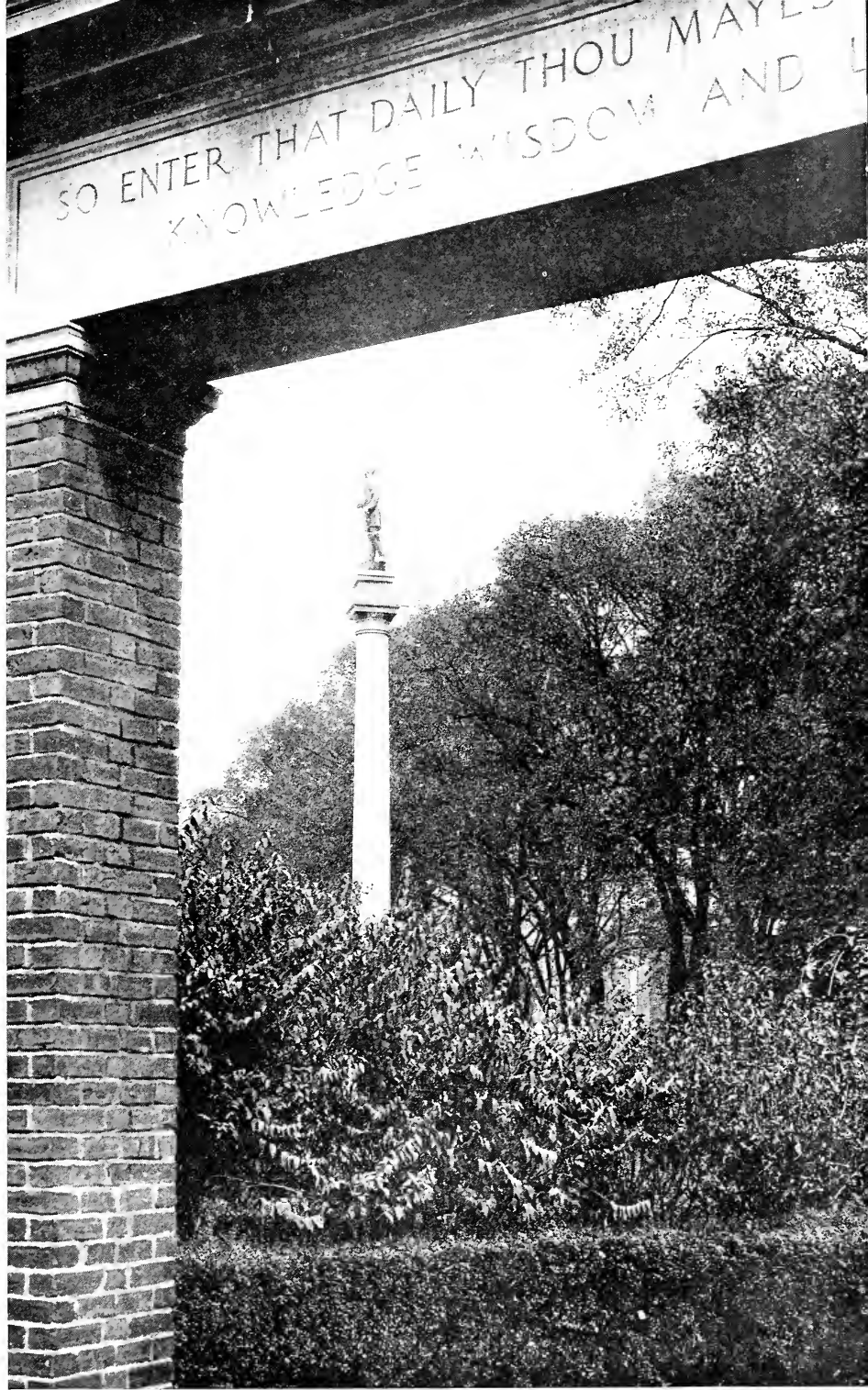
OHIO

UNIVERSITY BULLETIN

CATALOG NUMBER

1941 • 1942

Digitized by the Internet Archive
in 2011 with funding from
LYRASIS Members and Sloan Foundation



THE ALUMNI GATEWAY — MAIN ENTRANCE TO CAMPUS



THE EDWIN WATTS CHUBB LIBRARY

OHIO

UNIVERSITY BULLETIN



ONE HUNDRED THIRTY-SEVENTH YEAR

1941 • 1942

ATHENS, OHIO

1941

Su M T W Th F S

APRIL

		1	2	3	4	5	
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30				

Su M T W Th F S

MAY

					1	2	3
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

Su M T W Th F S

JUNE

		1	2	3	4	5	6	7
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30							

JULY

		1	2	3	4	5	
6	7	8	9	10	11	12	
13	14	15	16	17	18	19	
20	21	22	23	24	25	26	
27	28	29	30	31			

AUGUST

					1	2	
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31							

SEPTEMBER

		1	2	3	4	5	6	
7	8	9	10	11	12	13		
14	15	16	17	18	19	20		
21	22	23	24	25	26	27		
28	29	30						

OCTOBER

		1	2	3	4		
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31		

NOVEMBER

						1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30							

DECEMBER

		1	2	3	4	5	6	
7	8	9	10	11	12	13		
14	15	16	17	18	19	20		
21	22	23	24	25	26	27		
28	29	30	31					

1942

Su M T W Th F S

JANUARY

				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

Su M T W Th F S

FEBRUARY

		1	2	3	4	5	6	7
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		

Su M T W Th F S

MARCH

		1	2	3	4	5	6	7
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31						

APRIL

		1	2	3	4		
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30			

MAY

						1	2
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	
31							

JUNE

		1	2	3	4	5	6	
7	8	9	10	11	12	13		
14	15	16	17	18	19	20		
21	22	23	24	25	26	27		
28	29	30						

OHIO UNIVERSITY BULLETIN

Volume XXXVIII

APRIL, 1941

Number 3

Published at Athens, Ohio, by Ohio University monthly in February, March, April, June, and August. Entered at the Post Office at Athens, Ohio, as Second-class Matter.

THE UNIVERSITY CALENDAR FOR 1941-1942

SUMMER SESSION

1941

June 16	M	Registration
June 17	T	Classes begin
June 21	S	Last day for filing application for graduation in August
July 4	F	Independence Day, a holiday
Aug. 3	Su	Baccalaureate Sunday
Aug. 4	M	Masters' theses due in the library
Aug. 6	W	Beginning of final examinations
Aug. 8	F	Session closes—Commencement

POST SUMMER SESSION

Aug. 11	M	Registration until 12:00 noon. Classes begin at 1:00 p.m.
Aug. 29	F	Final examinations begin at 1:00 p.m.
Aug. 30	S	Session closes

FIRST SEMESTER

Sept. 15	M	Tests and meetings for freshmen
Sept. 15	M	Advising of students in degree colleges
Sept. 16	T	Registration of students in degree colleges
Sept. 17	W	Counseling of University College students in the morning
Sept. 17	W	Registration of University College students begins at 2:00 p.m.
Sept. 18	Th	Registration of University College students closes at noon
Sept. 18	Th	Classes begin at 1:00 p.m. for the entire Thursday schedule
Sept. 27	S	Last day for filing application for graduation in February
Nov. 15	S	Mid-semester reports
Nov. 20	Th	Thanksgiving, a holiday
Dec. 17	W	Christmas recess begins after the close of the last class period

1942

Jan. 5	M	Classes resume
Jan. 24	S	Beginning of final examinations
Jan. 26	M	Masters' theses due in the library
Jan. 31	S	Session closes

SECOND SEMESTER

Feb. 2	M	Advising of students in degree colleges
Feb. 3	T	Registration of students in degree colleges
Feb. 4	W	Registration of University College students
Feb. 5	Th	Classes begin
Feb. 14	S	Last day for filing application for graduation in June
Mar. 27	F	Mid-semester reports
Mar. 28	S	Spring recess begins after the close of the last class period
Apr. 6	M	Classes resume
May 29	F	Beginning of final examinations
May 30	S	Memorial Day, a holiday
June 2	T	Masters' theses due in the library
June 7	Su	Baccalaureate Sunday
June 8	M	Session closes—Commencement

CONTENTS

The University Calendar.....	3
The Board of Trustees.....	5
Administrative Officers and Officers of Instruction.....	6
General Information	21
History	21
Location	22
The Sessions	22
Buildings and Grounds.....	22
Service Offices	25
Student Activities and Organizations.....	27
Prizes and Awards	33
Admission Information	37
Board and Room.....	38
University Health Service	42
Fees and Deposits	43
Expense Estimate	46
Student Aid	47
Registration	50
General Regulations	52
General Graduation Requirements	56
Teaching Certificates	59
Colleges and Divisions	63
The University College	64
The College of Arts and Sciences.....	66
The College of Education.....	73
The College of Commerce.....	85
The College of Applied Science.....	91
The College of Fine Arts.....	100
The Graduate College	102
The Division of Physical Welfare.....	106
The Division of Military Science and Tactics.....	108
The University Extension Division.....	109
The Portsmouth and Zanesville Centers.....	111
The Summer Sessions.....	111
Courses of Instruction	113
Summary of Enrollment.....	244
Index	247

BOARD OF TRUSTEES*

	Term Expires
Thomas R. Biddle, Athens-----	Indefinite
Fred W. Crow, Pomeroy-----	Indefinite
E. C. Eikenberry, Camden-----	Indefinite
Charles D. Hopkins, Athens-----	Indefinite
Arthur C. Johnson, Columbus-----	Indefinite
Thomas J. Davis, Cincinnati-----	Indefinite
Charles E. Holzer, Gallipolis-----	1940
Gordon K. Bush, Athens-----	1941
Frank F. Young, Lowell-----	1942
J. O. McWilliams, Cleveland-----	1943
George G. Hunter, Ironton-----	1944
Earl C. Shively, Columbus-----	1945
James E. Kinnison, Canton-----	1946
E. N. Dietrich, Director of Education-----	Ex Officio

OFFICERS OF THE BOARD OF TRUSTEES

Thomas R. Biddle-----	Chairman
E. C. Eikenberry-----	Vice-Chairman
George C. Parks-----	Secretary

COMMITTEES OF THE BOARD OF TRUSTEES

Auditing: Young, McWilliams

Buildings and Grounds: Holzer, Bush, Hopkins

Finance: Eikenberry, Holzer, Shively

Legislative: Eikenberry, Johnson, McWilliams, Kinnison

Publicity: Bush, Hunter, McWilliams

Teachers and Salaries: Johnson, Eikenberry, Kinnison

University Conference: Crow, Hunter, Young

The chairman of the Board of Trustees is chairman of all committees.

*As of December 1, 1940

GENERAL ADMINISTRATIVE OFFICERS
OF OHIO UNIVERSITY

- HERMAN GERLACH JAMES, J.D., Ph.D., LL.D.-----*President of the University*
Ewing Hall
- THOMAS COOKE McCracken, Ph.D.-----*Provost, and Dean of the*
College of Education
Cutler Hall
- IRMA ELIZABETH VOIGT, Ph.D.-----*Dean of Women*
McGuffey Hall
- LAURENCE WALDEMAR LANGE, A.M.-----*Dean of Men*
Cutler Hall
- FRANK BROWN DILLEY, Ph.D.-----*Registrar and Director of Admissions*
Ewing Hall
- GEORGE CRAWFORD PARKS, Ph.B.-----*Treasurer and Business Manager*
Ewing Hall
- IRENE LUCILE DEVLIN, A.M.-----*Assistant to the President*
Ewing Hall
- ANNE CLAIRE KEATING, A.B.-----*Librarian*
Edwin Watts Chubb Library
- CLARK EMERSON WILLIAMS, A.B.-----*Alumni Secretary and*
University Editor
Wilson Hall
- OSSIAN CLINTON BIRD, Ed.M.-----*Director of Physical Welfare*
Men's Gymnasium
- THOMAS FRANKLIN MCNEILL, B.S., A.B., Colonel, Infantry, U.S.A.-----
-----*Commandant of Cadets, Reserve Officers Training Corps*
Carnegie Hall
- BRANDON TAD GROVER, B.S. Ed.-----*Director of Public Relations*
Wilson Hall
- JAMES FLOYD DIXON, A.M.-----*Director of the University Extension*
Wilson Hall
- ELLIS HERNDON HUDSON, M.D.-----*Director of the Health Service*
Agriculture and Household Arts Building

ADMINISTRATIVE OFFICERS OF COLLEGES
AND OTHER UNITS

- WALTER SYLVESTER GAMERTSFELDER, Ph.D. *Dean of the Graduate College
and the College of Arts and Sciences*
Cutler Hall
- THOMAS COOKE McCracken, Ph.D. *Dean of the College of Education*
Cutler Hall
- ADOLPH HENRY ARMBRUSTER, M.B.A. *Dean of the College of Commerce*
Ewing Hall
- WILLIAM MORRIS YOUNG, Ph.D. *Dean of the College of Applied Science*
Super Hall
- EINAR AUGUST HANSEN, Ph.D. *Dean of the University College and
Director of the Summer Sessions*
McGuffey Hall
- LAWRENCE CARL MITCHELL, A.M. *Chairman of the Executive Committee
of the College of Fine Arts and Director
of the School of Painting and Allied Arts*
Fine Arts Hall
- CLARENCE CRAMER ROBINSON, Mus.M. *Director of the School of Music
and member of the Executive Committee of the
College of Fine Arts*
Music Hall
- ROBERT GATES DAWES, Ed.D. *Director of the School of Dramatic Art
and member of the Executive Committee
of the College of Fine Arts*
Ewing Hall
- GEORGE STARR LASHER, A.M. *Director of the School of Journalism*
Ewing Hall
- GRACE STEININGER, Ph.D. *Director of the School of Home Economics
Agriculture and Household Arts Building*
- DON C. PEDEN, B.S. *Director of Intercollegiate Athletics
Men's Gymnasium*

ADMINISTRATIVE ASSISTANTS

MILDRED CONSTANCE ANDREWS, A.M.-----*Secretary to the Dean of the
Graduate College and the College of Arts and Sciences*

MARY ANTORIETTO, A.B.-----*Assistant Registrar*

ALVA BRUDWICK, B.S.Ed.-----*Secretary to the Dean of the
College of Commerce*

MARY KATHRYN DAUM, B.S.S.-----*Secretary to the Director of
Public Relations*

CHARLES MARC DAVIS, Retired Master Sergeant, U.S.A.-----
-----*Military Property Custodian and Military Storekeeper*

MARGARET KEEHNE DAVIS, A.M.-----*Director of Dining Halls*

MARY LOUISE FIELD, A.M.-----*Assistant Dean of Women*

RUTH PEARL FULMER, B.S.Ed.-----*Secretary to the Dean of the
College of Applied Science*

NONA LUCILLE GEORGE, B.S.S.S.-----*Supervisor of the Service Bureau*

KATHARINE BLAIR HALLER, B.S.S.S.-----*Secretary to the Director of the
Health Service*

WILLIAM ALBERT HARMON, M.B.A.-----*Comptroller of University Accounts*

THERESA HEISER, B.S.Ed.-----*Secretary to the Dean of Women*

GERALDINE COE HOPE-----*Secretary in the Alumni Office*

MARY LOU HORNSTEIN, A.B.-----*N.Y.A. Coordinator*

JAMES EDWARD HOUSEHOLDER, A.B.C.-----*Assistant to the Dean of Men*

LEONA HUGHES, A.M.-----*Secretary in the Extension Division*

MARCELLA KERR HYDE, A.B.-----*Secretary in the Division of
Military Science and Tactics*

SARA LONG JONES, A.B.-----*Supervisor of Off-Campus Housing*

WAYNE JONES, B.S.C.-----*Manager of the Men's Dormitory*

EDITH MADELYNN MANEGGIE, B.S.J.-----*Secretary to the University Editor*

ANNA ELIZABETH MUMMA, A.B.-----*Secretary to the Dean of the
College of Education*

DORRIS WYLIE NICHOLS, A.B.C.-----*Cashier*

KATHERINE MAE OLVEY, B.S.Ed.-----*Secretary to the Chairman,
College of Fine Arts Executive Committee*

MARGARET LUCILE OSGOOD, A.M.-----*Assistant Dean of Women*

LAMAR JOSEPH OTIS, B.S.B.A., C.P.A.-----*Auditor of Student Funds*

MILDRED VIRGINIA PETERS, A.B.-----*Secretary to the Dean of the
University College and Director of the Summer Sessions*

EVELYN MAE SIDDEERS, B.S.Ed.-----*Secretary at the University Elementary
School*

ANGIE JANETTE THOMPSON, B.S.S.S.-----*Secretary to the Director of
Intercollegiate Athletics*

MARGARET MAYBELLE WILSON, M.S.-----*Head of Residence of Boyd Hall*

COMMITTEES OF THE FACULTY*

1940 - 1941

EXECUTIVE—McCracken, Dilley (secretary), Gamertsfelder, Armbruster, Young, Devlin, Hansen, Mitchell

ADVISORY COUNCIL—R. L. Morton, Benz, Clark, Clippinger, Eblin, Elliott, Green, Hanson, Hatcher, Hellebrandt, Houf, Krauskopf, Lash (secretary), Paige, Sias, Staats, Starcher, Stehr, Denbow, Jolliffe, LaTourrette, Potter, Scott, Fontaine, Beckert

GRADUATE COUNCIL—Gamertsfelder, Benz, Caskey, Elliott, Green, Hellebrandt, Krauskopf, Whitehouse, Dawes, Shoemaker, Volwiler

SUMMER SESSIONS—Hansen, Dilley, Keating, Armbruster, Mitchell

LIBRARY—Keating, Dunlap, Foster, Hanson, Hill, Jeddelloh, McClure, McNeill, Trepp

EXTENSION DIVISION—Dixon, Dilley (ex officio), McCracken (ex officio), R. L. Morton, Patrick

UNIVERSITY COLLEGE—Hansen, Dilley, Voigt, Lange, Hatcher, Krauss, W. J. Smith

SCHOLARSHIPS—Patrick, Voigt, Lange

INTERCOLLEGIATE ATHLETICS—Hanson, Peden (advisory), Clippinger, Paynter, Staats (secretary), Marquis

BUREAU OF APPOINTMENTS—Mitchell, Gaylord, Beckert, Grover, Dunlap, Sias, Steininger

SOCIAL ACTIVITIES—Lasher, Dunham, H. H. Roach, Davidson, Devlin

CAMPUS AFFAIRS—(faculty representatives on committee) Voigt, Lash, Grover, Justin, Lange, Hellebrandt

NATIONAL YOUTH ADMINISTRATION—Devlin, Parks, Voigt, Young, Lange, George, Harmon

PUBLIC RELATIONS—Grover, Dawes, Elliott, George, Shoemaker, Paynter, Stephan

ALUMNI LOAN FUND—Grover, Danielson, Williams, Fenzel, Sponseller

EMERSON POETRY PRIZE CONTEST—Wilson, Caskey, Heidler, Kirchner, Lash

FLOWERS—Hoover, Devlin, Noss

MUSEUM—Matheny, Ondis, Willis, Hill, Hoover

SERVICE BUREAU—Armbruster, George (advisory), Sponseller

REGISTRATION—Dilley, Benz, Fenzel, Gaylord, Starcher

HONORS DAY—Patrick, Armbruster, Frey, McCracken, Voigt (ex officio), Porter

CLASSROOMS AND OFFICES—Dilley, Church, Fontaine, Kinison, Parks, Starcher, Shoemaker

CLINTON POSTON BIDDLE MEMORIAL SCHOLARSHIP LOAN FUND—Armbruster, Gamertsfelder, McCracken, Young, Mitchell

CIVIL PILOT TRAINING—Young, Armbruster, Gamertsfelder, McCracken, Mitchell

LOAN FUNDS—Grover, Danielson, Fenzel, Otis, Sponseller, Voigt, Williams

UNIVERSITY SURVEY—Gamertsfelder, Armbruster, Clippinger, Dilley, Elliott, Houf, McCracken, Mitchell, R. L. Morton, Sias, Starcher, Young

UNIVERSITY TESTING—Patrick, Cable, Dilley, Porter, Voigt

NON-RESIDENT FEES—Dilley, Dykstra, Parks

*The president of the university has membership in each committee

OFFICERS OF INSTRUCTION*

- HERMAN GERLACH JAMES, J.D., Ph.D., LL. D., *President*
HIRAM ROY WILSON, Litt.D., *Professor of English*
WILLIAM FRANKLIN COPELAND, Ph.D., *Professor of Agriculture*
THOMAS NATHANAEL HOOVER, Ph.M., A.M., *Professor of History*
WILLIAM ALDERMAN MATHENY, Ph.D., *Professor of Botany and Curator
of the Museum*
MARY THEODORA NOSS, Docteur D'Univ., *Professor of French*
JOSHUA ROMINE MORTON, M.S., *Professor of Chemistry*
VICTOR WHITEHOUSE, Ph.D., *Professor of Spanish*
ROBERT LEE MORTON, Ph.D., *Professor of Education*
VICTOR DWIGHT HILL, A.B., *Professor of Classical Languages*
GERALD THOMAS WILKINSON, Ph.D., *Professor of Romance Languages*
‡WALTER SYLVESTER GAMERTSFELDER, Ph.D., *Professor of Philosophy and
Ethics*
‡THOMAS COOKE MCCrackEN, Ph.D., *Professor of Education*
JAMES PERTICE PORTER, Ph.D., *Professor of Psychology*
CLARENCE CRAMER ROBINSON, Mus.M., *Professor of Voice*
OSSIAN CLINTON BIRD, Ed.M., *Professor of Physical Welfare*
CLYDE EDWARDS COOPER, Ph.D., *Professor of Geography and Geology*
EDWIN BERT SMITH, Ph.D., *Professor of Government*
CLINTON NICHOLS MACKINNON, A.M., *Professor of English*
GEORGE STARR LASHER, A.M., *Professor of English and Journalism*
ALBERT CARL GUBITZ, A.M., *Professor of Economics*
AZARIAH BOODY SIAS, Ph.D., *Professor of School Administration*
JOHN AMBROSE HESS, Ph.D., *Professor of German*
EDITH E. BEECHEL, Ph.D., *Professor of Education*
FREDERICK HARTZLER KRECKER, Ph.D., *Professor of Zoology*
‡EINAR AUGUST HANSEN, Ph.D., *Professor of Elementary Education*
ALBERT TANGEMAN VOLWILER, Ph.D., *Professor of History*
‡ADOLPH HENRY ARMBRUSTER, M.B.A., *Professor of Finance*
HARVEY CHRISTIAN LEHMAN, Ph.D., *Professor of Psychology*
HORACE THOMAS HOUF, A.M., L.H.D., *Professor of Philosophy*
LAWRENCE CARL MITCHELL, A.M., *Professor of Painting and Allied Arts*

*Arranged in order of priority of service within respective ranks, as of December 1, 1940
‡Part-time teaching

‡IRMA ELIZABETH VOIGT, Ph.D., *Professor of Supervision and Guidance of Student Life*

FRANK WALKER REED, Ph.D., *Professor of Mathematics*

DEFORREST WILBER INGERHAM, Mus.B., *Professor of Violin*

EDITH ARMSTRONG WRAY, Ph.D., *Professor of English*

RICHARD ALLEN FOSTER, Ph.D., *Professor of English*

JOSEPH BUNN HEIDLER, Ph.D., *Professor of English*

HARRY EDWARD BENZ, Ph.D., *Professor of Education*

JOHN HOMER CASKEY, Ph.D., *Professor of English*

WALTER WENTWORTH WIGGIN, Ph.D., *Professor of Agriculture*

*EDWARD CHRISTIAN CLASS, Ph.D., *Professor of Education*

HOWARD LEROY DUNLAP, Ph.D., *Professor of Chemistry*

THOMAS FRANKLIN MCNEILL, B.S., A.B., COLONEL, INFANTRY, U.S.A.,
Professor of Military Science and Tactics

ROBERT GATES DAWES, Ed.D., *Professor of Dramatic Art and Speech*

‡WILLIAM MORRIS YOUNG, Ph.D., *Professor of Electrical Engineering*

FLORENCE JUSTIN, Ph.D., *Professor of Home Economics*

AMOS CAREY ANDERSON, Ph.D., *Professor of Psychology*

RUSH ELLIOTT, Ph.D., *Professor of Anatomy*

CARL ADAM FREY, Ph.D., *Professor of Bacteriology*

JAMES RUEY PATRICK, Ph.D., *Professor of Psychology*

ROBERT HOUGHTON MARQUIS, Ph.D., *Professor of Mathematics*

GRACE STEININGER, Ph.D., *Professor of Home Economics*

ERNEST EUGENE RAY, M.B.A., C.P.A., *Professor of Accounting*

GEORGE WILLIAM STARCHER, Ph.D., *Professor of Mathematics*

DARRELL BENNETT GREEN, Ph.D., *Professor of Electrical Engineering*

‡ELLIS HERNDON HUDSON, M.D., *Professor of Hygiene*

EVAN JOHNSON JONES, JR., A.M., *Associate Professor of History*

FRANK BARNHART GULLUM, M.S., *Associate Professor of Chemistry*

WILLIAM HENRY FENZEL, B.C.S., A.B., *Associate Professor of Accounting and Economic Geography*

MARY ENGLE KAHLER, A.M., *Associate Professor of English*

HARRY HOUSTON PECKHAM, A.M., *Associate Professor of English*

RAYMER MCQUISTON, A.M., *Associate Professor of English*

*On leave of absence

‡Part-time teaching

- ‡DON C. PEDEN, B.S., *Head Coach of Football and Baseball and Associate Professor of Physical Welfare*
- HENRY JOHN JEDDELOH, A.M., *Associate Professor of Sociology*
- SARAH HATCHER, A.M., *Associate Professor of Physical Welfare*
- MELVIA LYNCH DANIELSON, A.M., *Associate Professor of School Music*
- OLIN DEE MORRISON, A.M., *Associate Professor of History*
- EMMETT ROWLES, A.M., *Associate Professor of Physiology*
- OSCAR EARLE MCCLURE, A.M., *Associate Professor of Electrical Engineering and Physics*
- ALBERT WESLEY BOETTICHER, M.S., *Associate Professor of Botany*
- ‡WILLIAM JOHN TRAUTWEIN, A.B., *Head Coach of Basketball and Associate Professor of Physical Welfare*
- ‡JAMES FLOYD DIXON, A.M., *Associate Professor of Education*
- EDNA MARTHA WAY, A.M., *Associate Professor of Space Arts*
- ROY HOYT PAYNTER, M.B.A., *Associate Professor of Marketing*
- RALPH FERDINAND BECKERT, A.M., *Associate Professor of Accounting*
- CURTIS WILLIAM JANSSEN, *Associate Professor of Music and Bandmaster*
- PAUL HENDRICKS FONTAINE, Mus.B., *Associate Professor of Piano and Counterpoint*
- LORIN COOVER STAATS, A.M., *Associate Professor of Dramatic Art and Speech*
- DONALD ROOP CLIPPINGER, Ph.D., *Associate Professor of Chemistry*
- EDWIN HENRY GAYLORD, M.S.E., *Associate Professor of Civil Engineering*
- EDWIN THEODORE HELLEBRANDT, Ph.D., *Associate Professor of Economics*
- LEWIS AMEDEUS ONDIS, Ph.D., *Associate Professor of Romance Philology*
- EDWARD AUGUST TAYLOR, Ph.D., *Associate Professor of Sociology*
- CLARENCE LORENZO DOW, Ph.D., *Associate Professor of Geography and Geology*
- HAZEL M. WILLIS, A.M., *Associate Professor of Design*
- CHARLES RICHARD KINISON, M.S. Ed., *Associate Professor of Industrial Arts*
- THURMAN CARLISLE SCOTT, Ph.D., *Associate Professor of Psychology*
- WILLIAM C. STEHR, Ph.D., *Associate Professor of Entomology*
- GAIGE BRUE PAULSEN, Ph.D., *Associate Professor of Psychology*
- MARGARET THELMA HAMPEL, Ed.D., *Associate Professor of Education*
- EDWARD FRANKLIN WILSEY, Ph.D., *Associate Professor of Civil Engineering*

‡Part-time teaching

CARL OSCAR HANSON, Ph.D., *Associate Professor of Banking and Finance*

JOHN ROBERT GENTRY, Ph.D., *Associate Professor of Psychology*

JAMES BROWN GOLDEN, Major, Retired, U.S.A., *Associate Professor of Military Science and Tactics*

FOREST LEROY SHOEMAKER, Ph.D., *Associate Professor of Education*

NEIL DUNCAN THOMAS, B.S., *Assistant Professor of Civil Engineering*

CONSTANCE GROSVENOR LEETE, A.M., *Assistant Professor of Romance Languages*

THORWALD OLSON, B.S. Ed., *Assistant Professor of Physical Welfare*

IDA MAE PATTERSON, M.S., *Assistant Professor of Home Economics*

M. ELSIE DRUGGAN, M.S., R.N., *Assistant Professor of Hygiene*

MARIAM SARAH MORSE, A.M., *Assistant Professor of Home Economics*

WILLIAM HENRY HERBERT, A.M., *Head Coach of Track and Assistant Professor of Physical Welfare*

ISABELLE MCCOY WORK, A.M., *Assistant Professor of Space Arts*

CATHERINE ELIZABETH BEDFORD, A.M., *Assistant Professor of Design*

‡MARY LOUISE FIELD, A.M., *Assistant Professor of History*

ALLEN RAYMOND KRESGE, *Assistant Professor of Organ and Harmony*

MARGARET MATTHEWS BENEDICT, A.B., *Assistant Professor of Voice and Director of Women's Glee Club*

WILLIAM RANSOM LONGSTREET, A.B., Mus.B., *Assistant Professor of Piano*

HELEN HEDDEN ROACH, A.B., *Assistant Professor of Voice*

JOSEPH PETER TREPP, A.M., *Assistant Professor of Physical Welfare*

GRETA ALECIA LASH, A.M., *Assistant Professor of English*

MARY DEE BLAYNEY, A.M., *Assistant Professor of School Music*

GEORGE WILLIAMS CLARK, B.S., B.S.C.E., *Assistant Professor of Civil Engineering*

IRVIN VICK SHANNON, Ph.D., *Assistant Professor of Sociology*

HORACE HEWELL ROSEBERRY, Ph.D., *Assistant Professor of Physics and Electrical Engineering*

HAROLD RICHARD JOLLIFFE, Ph.D., *Assistant Professor of Classical Languages*

PHILIP LAWRENCE PETERSON, B.M. Ed., *Assistant Professor of Voice and History of Music*

KARL HORT KRAUSKOPF, Ph.D., *Assistant Professor of Advertising*

GERALD OSCAR DYKSTRA, LL.B., M.B.A., *Assistant Professor of Business Law*

‡Part-time teaching

PAUL GERHARDT KRAUSS, Ph.D., *Assistant Professor of German*

*VINCENT JOSEPH JUKESS, A.M., *Assistant Professor of Dramatic Art and Speech*

EUGEN HARTMUTH MUELLER, Ph.D., *Assistant Professor of German*

JOSEPH EUGENE THACKREY, A.M., *Assistant Professor of School Music*

LAWRENCE POWELL EBLIN, Ph.D., *Assistant Professor of Chemistry*

CARL TUSSING NESSLEY, Ed.M., *Assistant Professor of Physical Welfare*

VERA BOARD, A.T.C.M., *Assistant Professor of Piano*

DORIS MAE SPONSELLER, A.M., *Assistant Professor of Secretarial Studies*

CHARLOTTE ELLEN LATOURRETTE, A.M., *Assistant Professor of Physical Welfare*

WILLIAM OLIVER MARTIN, Ph.D., *Assistant Professor of Philosophy*

CARL DENBOW, Ph.D., *Assistant Professor of Mathematics*

WILLIAM HARRY KIRCHNER, JR., Ph.D., *Assistant Professor of English*

FLORENCE EDNA WAGNER, A.M., *Assistant Professor of Home Economics*

‡ROBERT C. HUME, M.D., *Assistant Professor of Hygiene*

‡CHARLES HENRY HARRIS, Ph.B., *Instructor in Journalism*

‡WILLIAM FOSTER SMILEY, A.B.C., *Instructor in Journalism*

*MONROE THOMAS VERMILLION, M.S., *Instructor in Botany*

IRENE ELLEN WITHAM, A.M., *Instructor in Piano and Keyboard Harmony*

ARTHUR H. RHOADS, A.M., *Instructor in Physical Welfare*

MARY KATHERINE BROKAW, A.M., *Instructor in Classical Languages*

*BERTRAM A. RENKENBERGER, A.M., *Instructor in Romance Languages*

JOHN ELZA EDWARDS, A.M., *Instructor in Physics*

‡LAMAR JOSEPH OTIS, B.S.B.A., C.P.A., *Instructor in Accounting*

*MARY EUNICE SNYDER, A.M., *Instructor in Home Economics*

GRACE MACGREGOR MORLEY, A.M., *Instructor in School Music*

MARY ELIZABETH ELLIS, Mus.M., *Instructor in Violin*

JOHN PIKE EMERY, Ph.D., *Instructor in English*

LILA MARGARET MILLER, A.M., *Instructor in Secretarial Studies*

DONALD RAMSAY ROBERTS, Ph.D., *Instructor in English*

‡LIVERNE FREDERICK LAUSCHE, B.S., *Instructor in Steam Engineering*

‡DANA PERRY KELLY, A.M., *Instructor in Journalism*

FRANCIS PETTIT BUNDY, Ph.D., *Instructor in Physics*

*On leave of absence

‡Part-time teaching

HERSCHEL THOMAS GIER, Ph.D., *Instructor in Zoology*

MARY KATHERINE LEONARD, A.M., *Instructor in School Design*

NORMAN RAY BUCHAN, LL.B., A.M., *Instructor in Journalism*

JOSEPHINE VIRGINIA SNOOK, A.M., *Instructor in Secretarial Studies*

F. THEODORE PAIGE, A.M., *Instructor in Industrial Arts*

PAUL MURRAY KENDALL, Ph.D., *Instructor in English*

HELEN LOUISE MAASER, A.M., *Instructor in School Music*

DONALD EISENBREY CHURCH, Ph.D., *Instructor in Statistics*

JOHN BRADFIELD HARRISON, Ph.D., *Instructor in English*

‡MARGARET LUCILE OSGOOD, A.M., *Instructor in Mathematics*

JAMES VAN NOSTRAN RICE, Ph.D., *Instructor in Romance Languages*

DON DALZELL MILLER, A.M., *Instructor in Mathematics*

‡HAROLD ELWOOD WISE, A.M., *Assistant Coach of Football, Basketball, and Baseball and Instructor in Physical Welfare*

SYBIL LEE GILMORE, M.S., *Instructor in Secretarial Studies*

FRANKLIN CARL POTTER, Ph.D., *Instructor in Geography and Geology*

MARIE ACOMB QUICK, A.M., *Instructor in Education*

VIRGINIA FRANCES HARGER, M.S., *Instructor in Home Economics*

JAMES OTTO STEPHAN, A.M., *Instructor in Industrial Arts*

CHARLES ARTHUR ROWAN, JR., A.M., *Instructor in Dramatic Art and Speech*

EDWARD HUTCHINS DAVIDSON, Ph.D., *Instructor in English*

ALICE E. LAGERSTROM, A.M., *Instructor in Home Economics*

ROY DREXEL MAC TAVISH, M. Soc. Admr., *Instructor in Sociology*

CARL JOEL HOUSE, B.S. Ed., *Instructor in Physical Welfare*

DOUGLAS WALLACE OBERDORFER, A.M., *Instructor in Sociology*

THOMAS LARRICK, M.Arch., Reg. Arch., *Instructor in Space Arts and University Architect*

CARL FREDERICK RITER, A.M., *Instructor in Space Arts*

‡JULIA LUELLE CABLE, A.M., *Instructor in Psychology*

WILFRED JAMES SMITH, Ph.D., *Instructor in History*

KARL ESCOTT WITZLER, B.S., *Instructor in Woodwind Instruments and Director of the Military Band*

MARY HEDWIG ARBENZ, A.M., *Instructor in Dramatic Art and Speech*

ANN MARIE KELLNER, A.M., *Instructor in Physical Welfare*

ALICE MARTING, A.M., *Instructor in Physical Welfare*

EDMUND F. MACDONALD, B.S., *Instructor in Economics*

‡Part-time teaching

- DONALD W. PADEN, A.M., *Instructor in Economics*
- GLEN LAWHON PARKER, Ph.D., *Instructor in Economics*
- ‡MARGARET MAYBELLE WILSON, M.S., *Instructor in Speech*
- FREDERICK WAKEFIELD THON, M.F.A., *Instructor in Dramatic Art and Speech*
- RICHARD STEWART HUDSON, LL.B., *Instructor in Business Law*
- ROYAL HENDERSON RAY, A.M., *Instructor in Journalism*
- ‡P. OUTHWAITE NICHOLS, *Instructor in Journalism*
- FREDERICK O. BUNDY, A.M., *Instructor in Government*
- SARAH HELEN KEYSER, A.M., *Instructor in Physical Welfare*
- RUTH ELIZABETH BECKEY, Ph.D., *Instructor in Dramatic Art and Speech*
- ARTHUR HARRY BLICKLE, Ph.D., *Instructor in Botany*
- ROBERT BOWER ECKLES, Ph.D., *Instructor in History*
- CARLETON IVERS CALKIN, B.F.A., *Instructor in School Design*
- KEITH BROOKS MACKICHAN, M.S.E.E., M.B.A., *Instructor in Electrical Engineering*
- ‡RHEA MAXINE PATTISON, A.B., *Instructor in English*
- CHARLES HENRY FAIR, Second Lieutenant, Infantry, U.S.A., *Instructor in Military Science and Tactics*
- JACK B. SAMPSELLE, Sergeant, Infantry, U.S.A., *Instructor in Military Science and Tactics*
- ROGER JOHNSON JONES, JR., A.B., Second Lieutenant, Infantry, U.S.A. Reserve, *Instructor in Military Science and Tactics*
- ROBERT ALSON GARN, B.S.A., Second Lieutenant, Infantry, U.S.A. Reserve, *Instructor in Military Science and Tactics*
- ‡THOMAS MCKINLEY WOLFE, M.B.A., *Lecturer in Commerce*
- ‡C. H. CREED, M.D., *Director of Clinics in Abnormal Psychology*
- FREDERICK GEORGE WALSH, A.M., M.S., *Visiting Lecturer in Dramatic Art and Speech*
- WILLIAM HOLLOWAY ROBERTS, A.M., *Visiting Lecturer in Spanish*
- WILLIAM THOMAS BRYAN, Ph.D., *Visiting Lecturer in Education*
- MARY GWENDOLYN OLIVER, A.M., *Visiting Lecturer in Home Economics*
- LOUIS KIMBALL MANN, Ph.D., *Visiting Lecturer in Botany*
- ‡HORACE B. DAVIDSON, M.D., *Director of Internes in Medical Technology*
- EDWARD B. RABER, JR., Private, First-Class, Field Artillery, U.S.A., *Assistant Instructor in Military Science and Tactics*

†LEE STEWART ROACH, A.M., *Assistant in Zoology*

LEWIS LIONEL SABO, B.S. Ed., *Assistant in the Division of Physical Welfare*

†MARION OWEN WOODWARD, A.M., *Itinerant Teacher in Home Economics*

HAROLD NEWTON CARLISLE, B.S., *Graduate Assistant in Zoology*

CARL WENDELL COX, B.S., *Graduate Assistant in Mathematics*

CARL RAMSEY PARKS, B.S., *Graduate Assistant in Chemistry*

JAMES HARRISON LEE ROACH, A.B., *Graduate Assistant in Psychology*

ELIZABETH R. BUDDY, Ph.B., *Graduate Assistant in the Office of the Dean of Women*

JOSEPH COHRON, A.B., *Graduate Assistant in the School of Dramatic Art*

MAUDE LEE DORSEY, B.S.H.Ec., *Graduate Assistant in Home Economics*

VIRGINIA G. FINEFROCK, A.B., *Graduate Assistant in the Office of the Dean of Women*

HOWARD RICHARD FISHER, B.S.C., *Graduate Assistant in Statistics*

KENNETH NORMAN FROMM, B.S., *Graduate Assistant in Physics*

EDWARD ORBAN, A.B., *Graduate Assistant in Chemistry*

RUTH EMILY POWELL, B.S. Ed., *Graduate Assistant in Physical Welfare*

ERNEST CRAWFORD SIEGFRIED, A.B., *Graduate Assistant in Zoology*

JAMES WILLIAM BARTHOLOMEW, B.S. Ed., *Fellow in Zoology*

PAUL JAMES GILBERT, JR., A.B., *Fellow in Chemistry*

MARTHA ELIZABETH HYRE, A.B., *Fellow in Zoology*

WILLIAM CARL LOWRY, B.S. Ed., *Fellow in Education*

CHARLES ALLAN MOORE, A.B., *Fellow in Zoology*

PATRICIA DUNCAN PALMER, A.B., *Fellow in Psychology*

BERNARD H. WITSBERGER, A.B., *Fellow in Romance Languages*

HOWARD MCCOY, A.B., *Fellow in Zoology*

PAUL L. SCHMIDT, A.B., *Fellow in Physics*

EMMA JANE BARCHFELD, B.S., *Fellow in Botany*

MARY ANNA ESWINE, A.B., B.S. Ed., *Fellow in Commerce*

HELEN KATHLEEN GRIMSLEY, B.S. Ed., *Fellow in Romance Languages*

HAROLD LOUIS JETER, A.B., *Fellow in Botany*

RUTH MCCLEAD, B.S. Ed., *Fellow in Home Economics*

FRANKLIN B. MOLEN, A.B., *Fellow in Chemistry*

†On special appointment

MARGARET LOUISE OWEN, B.S.H.Ec., *Fellow in Home Economics*

LEONA MABEL PICKARD, A.B., *Fellow in English*

ELROY JUNIOR STIMPERT, B.S. Ed., *Fellow in Botany*

JACK ANDREW WIEGMAN, A.B., *Fellow in English*

RUTH FRANCES SMITH, A.B., *Graduate Student Dean*

MARY KATHERINE VARNER, M.S., *Graduate Student Dietitian*

THE TRAINING SCHOOLS

THE UNIVERSITY ELEMENTARY SCHOOL

EDITH E. BEECHEL, Ph.D., *Principal of the University Elementary School*

JANET PURSER WILSON, A.M., *Supervising Critic in the Kindergarten*

DOROTHY HOYLE, A.M., *Supervising Critic in the Kindergarten*

MABEL BERYL OLSON, A.M., *Supervising Critic in the First Grade*

HELEN MARIE EVANS, A.M., *Supervising Critic in the Second Grade*

AGNES LYDIA EISEN, A.M., *Supervising Critic in the Third Grade*

MARGARET VIOLA NELSON, A.M., *Supervising Critic in the Fourth Grade*

MARY WARD, A.M., *Supervising Critic in the Fifth Grade*

ESTHER MAE DUNHAM, A.M., *Supervising Critic in the Sixth Grade*

CLARA HOCKRIDGE DELAND, A.M., *Supervising Critic in Special Education*

THE MECHANICSBURG SCHOOL

ELWIN RUTHERFORD O'NEILL, A.M., *Principal of the Mechanicsburg School and Supervising Critic in the Eighth Grade*

EDNA E. FELT, A.M., *Supervising Critic in the First Grade*

MARY V. FLANAGAN, A.M., *Supervising Critic in the Second Grade*

MARGARET DUNCAN, A.M., *Supervising Critic in the Fifth Grade*

THE PLAINS ELEMENTARY SCHOOL

HERMAN WILLIAM HUMPHREY, A.M., *Head of The Plains Schools*

ELVA MYRTLE COOPER, A.M., *Principal of The Plains Elementary School and Supervising Critic in the Sixth Grade*

ANNIE GOCHNAUER, A.M., *Supervising Critic in the First Grade*

VERA E. SPROUL, A.M., *Supervising Critic in the Second Grade*

EBBA LOUISE WAHLSTROM, A.M., *Supervising Critic in the Third Grade*

ALTA MAY COOPER, A.M., *Supervising Critic in the Fourth Grade*

IRENE CONSTANCE ELLIOTT, A.M., *Supervising Critic in the Fifth Grade*

THE PLAINS HIGH SCHOOL

- HERMAN WILLIAM HUMPHREY, A.M., *Head of The Plains Schools*
 ALLAN CREE, A.M., *Supervising Critic in Mathematics*
 LAWRENCE VIVIAN CALVIN, A.M., *Supervising Critic in Industrial Arts and History*
 ANNA BERYL CONE, A.M., *Supervising Critic in Home Economics*
 VILAS OLEN KAIL, A.M., *Supervising Critic in Biological Sciences and History*
 LOUISE JANE DIVER, A.M., *Supervising Critic in English*
 EDGAR BERTHOLD RANNO, A.M., *Supervising Critic in Physical Welfare and History*
 ADDA LENORE MACCOMBS, A.M., *Supervising Critic in Latin*

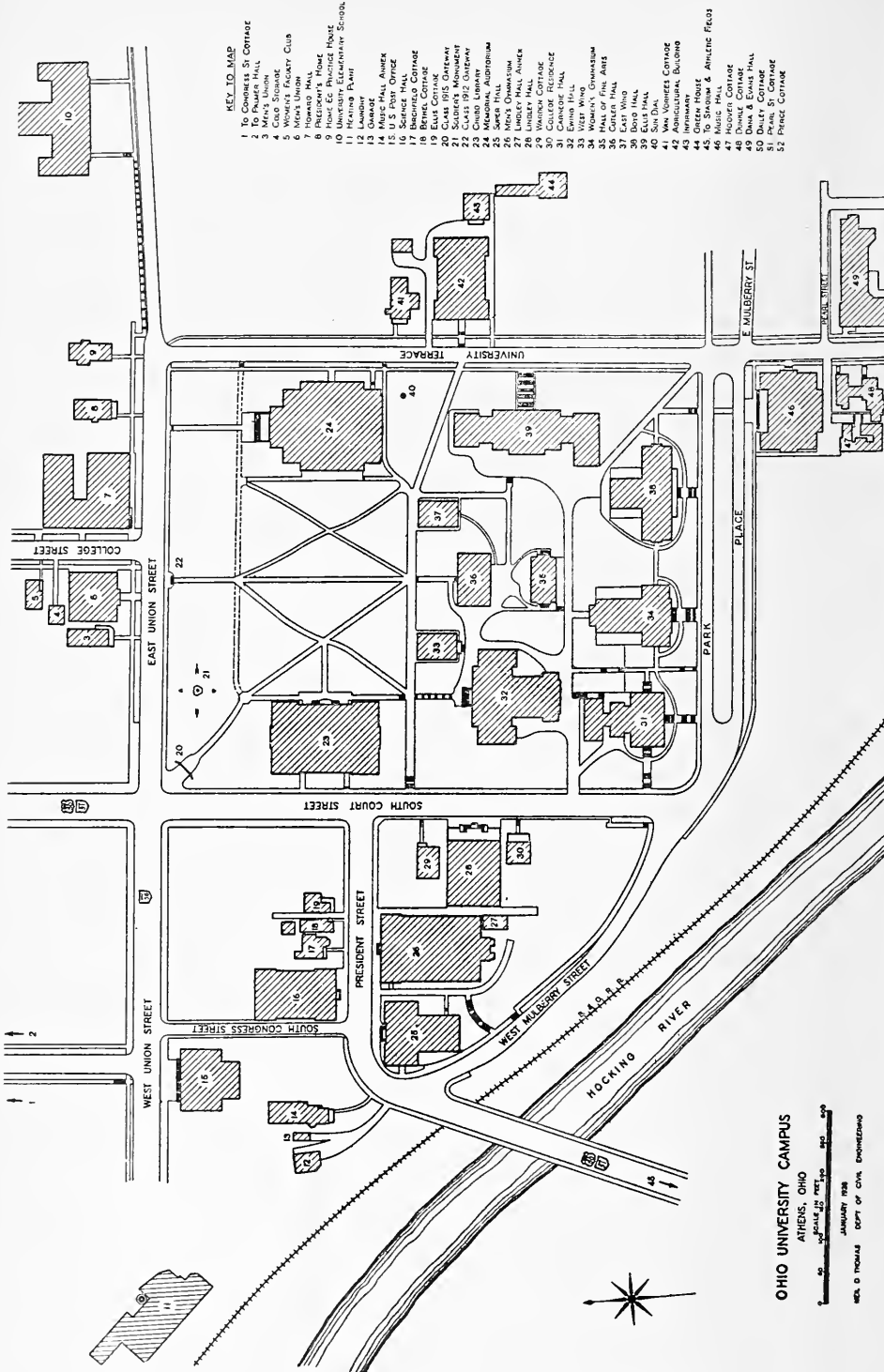
LIBRARY STAFF

- ANNE CLAIRE KEATING, A.B.-----*Librarian*
 AMY ALLEN, A.B., B.L.S.-----*Reference Librarian*
 MILDRED CAROLYN CHUTTER, A.B., B.L.S.-----*Assistant Cataloger*
 DORA MOORE, Ph.B.-----*Cataloger*
 ARLOT OLSON, A.B., B.S.L.S.-----*Order Librarian*
 GENEVIEVE PORTERFIELD, Ph.B.* -----*Children's Librarian*
 ELIZABETH SIMKINS, A.B., B.S.-----*Periodical Reference Librarian*
 JUNE SOUTHWORTH, A.B., B.S.-----*Assistant Cataloger*
 WILLIAM JAMES FARRELL, B.S.-----*Assistant in the Library*
 VIRGINIA MCVAY, A.B., B.S.L.S.-----*Acting Children's Librarian*
 CATHERINE NELSON, A.B., B.S.L.S.-----*Circulation Librarian*

HEALTH SERVICE STAFF

- ELLIS HERNDON HUDSON, M.D.-----*Physician*
 ROBERT C. HUME, M.D.-----*Physician*
 HELEN MOORE, R.N.-----*Nurse*
 FRANCES GERTRUDE LANMAN, R.N.-----*Nurse*
 LOTUS ADELE ASHWORTH, R.N.-----*Nurse*
 BERNICE LOUISE SNYDER, R.N.-----*Night Nurse*
 JUNE FANNIN, R.N.-----*Nurse*

*On leave of absence



KEY TO MAP

- 1 To Congress St. Cottage
- 2 To Palmer Hall
- 3 Office Building
- 4 College House
- 5 Women's Faculty Club
- 6 Mess Union
- 7 President's Home
- 8 Home Ec. Practice House
- 9 Home Ec. Practice House
- 10 Home Ec. Practice House
- 11 Home Ec. Practice House
- 12 Laundry
- 13 Music Hall
- 14 Music Hall Annex
- 15 U. S. Post Office
- 16 Science Hall
- 17 Science Hall
- 18 Bethel Cottage
- 19 Elus Cottage
- 20 Elus Cottage
- 21 Soldiers' Monument
- 22 Class 1922 Outcrop
- 23 Madison, Auditorium
- 24 Madison, Auditorium
- 25 Soper Hall
- 26 Soper Hall
- 27 Lindsey Hall, Annex
- 28 Lindsey Hall
- 29 Lindsey Hall
- 30 College Cottage
- 31 Cottage Hall
- 32 Cottage Hall
- 33 Emma Hill
- 34 Women's Gymnasium
- 35 Hall of Fine Arts
- 36 Hall of Fine Arts
- 37 East Wing
- 38 Bopp Hall
- 39 Bopp Hall
- 40 Sun Deck
- 41 Van Vorhes Cottage
- 42 Van Vorhes Cottage
- 43 Inmanway
- 44 Green House
- 45 Green House
- 46 Music Hall & Amnic. Fields
- 47 Hobson Cottage
- 48 Hobson Cottage
- 49 Danes Cottage
- 50 Dudley Cottage
- 51 Park St. Cottage
- 52 Park Cottage

OHIO UNIVERSITY CAMPUS
 ATHENS, OHIO
 JANUARY 1928
 WELSH TOMALA ARCHT. CO. CINCINNATI, OHIO



GENERAL INFORMATION

HISTORY

Ohio University has its legal origin in acts of the Congress of the United States and of the Ohio Legislature. It traces its spiritual genesis, however, to a clause, drafted by the Rev. Dr. Manasseh Cutler, in the Ordinance of 1787, which declares that "Religion, morality, and knowledge, being necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged." The Ordinance was devised "for the government of the territory of the United States northwest of the river Ohio," a region now generally known as the "Northwest Territory."

In its land purchase contract entered into with the federal government, July 27, 1787, three months after the passage of the Ordinance, the Ohio Company of Associates reserved "two complete townships for the purposes of an university." Upon the establishment of government in the "Ohio lands" and the location of the townships by General Rufus Putnam, the territorial legislature, sitting in Chillicothe, on January 9, 1802, provided by an enactment "that there shall be a university instituted and established in the town of Athens . . . by the name and style of the American Western University." This act was approved by Arthur St. Clair, governor of the Northwest Territory.

Two years later, February 18, 1804, Ohio in the meantime having been admitted to the Union, the state legislature re-enacted the provisions of the Territorial Act with a few changes. This latter act, which gave to the institution the name "Ohio University," has since been regarded as the charter of the school.

Through the efforts of General Putnam, the first building was constructed in 1808. Doctor Cutler and General Putnam are recognized as co-founders of the university.

The Rev. Jacob Lindley, Presbyterian minister of Waterford, Ohio, and a graduate of Princeton University, became the first member of the faculty and administered the affairs of the university until 1822. The first commencement was held on March 3, 1815, at which time two men, Thomas Ewing and John Hunter, were graduated. Thomas Ewing was twice elected to the United States Senate, was Secretary of the Treasury under President William Henry Harrison and was Secretary of the Interior under President Zachary Taylor. John Hunter died the year following his graduation. Among the twelve presidents who have served Ohio University was William Holmes McGuffey (1839-1843), author and compiler of the "Readers" that bear his name.

The income derived from the lands given by the federal government proved to be inadequate and was gradually supplemented by legislative appropriations until at present practically all financial support is derived from the state. The first building erected for the university with funds appropriated entirely by the state was built in 1881.

LOCATION

Ohio University is located in the city of Athens, a community in southeastern Ohio with a population of 7,676, which is the county seat of Athens County. Athens is conveniently accessible by automobile on U. S. routes 33 and 50, and state route 56. The city has direct train service on the Chesapeake and Ohio, New York Central, and Baltimore and Ohio railroads. North and south bus service is provided by the Valley Public Service lines; east and west service, by the Greyhound lines. Airplane connections with the Cleveland, Columbus, and Cincinnati airports are available through Athens Airways, Inc.

THE SESSIONS

The school year of the university is composed of two semesters and two summer sessions. A semester is approximately eighteen weeks in length; the first semester begins in September and the second in February.

The first summer session continues for eight weeks. A six-day-week schedule enables a student to complete one-half of a semester's work. The post summer session immediately follows the summer session for a three-week session which enables a student to complete from one to three semester hours of credit. Information concerning the summer sessions may be obtained from the summer session bulletin and from the director of the summer sessions.

BUILDINGS AND GROUNDS

Ohio University's physical plant, consisting of 26 principal buildings, 29 auxiliary buildings, and 72 acres of land, is valued at more than \$5,000,000.

At the entrance to the campus is the Alumni Gateway (20), erected in 1915 by the alumni in honor of the one hundredth anniversary of the first graduating class of the university. On the original campus, which consists of about 10 acres, are located 11 buildings.

Manasseh Cutler Hall (36), known in its early days as "The College Edifice" and later as the Central Building, was erected in 1817 and is the oldest college building northwest of the Ohio River. It is a fine example of early American architecture. It was given its present name in honor of one of the co-founders of the university. On the first floor are the offices of the dean of the College of Arts and Sciences and the Graduate College, the dean of the College of Education, and the dean of men. The Bureau of Appointments is on the second floor.

Wilson Hall (37) was erected in 1837 and for more than a century was known as East Wing. It was renamed, September 23, 1939, in honor of the Rev. Dr. Robert G. Wilson, third president of the university. The first floor is occupied by the Service Bureau. The University Extension Division, the News Bureau, the Alumni Office, and the office of the university editor are on the second floor. The office of the director of public relations and the department of Philosophy are on the third floor.

McGuffey Hall (33), originally known as West Wing, was erected in 1839. It is identical with Wilson Hall in the unit of three old buildings. It was renamed, September 23, 1939, in honor of the Rev. Dr. William H. McGuffey, fourth president of the university. In McGuffey Hall are the offices of the dean of the University College, the dean of women, the auditor of student funds, committee rooms, and headquarters for the Y. W. C. A. and the Women's League.

The Edwin Watts Chubb Library (23), erected in 1930, was named in honor of a former dean of the College of Arts and Sciences.

The Memorial Auditorium (24), which cost \$350,000, was made possible by the contributions of alumni and friends of Ohio University and by a special appropriation of the Ohio Legislature. It has a seating capacity of 2,811.

Ewing Hall (32), named in honor of Thomas Ewing of the class of 1815, contains the College of Commerce, the School of Dramatic Art, the School of Journalism, and the offices of the president, the registrar, and the treasurer of the university.

Ellis Hall (39), named for Dr. Alston Ellis, tenth president of the university, was the first building erected by the state of Ohio for the purpose of training teachers.

The Hall of Fine Arts (35) is the ivy-covered building formerly called the "Old Chapel." The auditorium on the first floor is used for debate and oratory by the School of Dramatic Art. The School of Painting and Allied Arts has a studio on the second floor.

Carnegie Hall (31), the former Carnegie Library building, has been extensively remodeled and now provides for 18 classrooms and 12 offices. The ground floor contains the headquarters of the Reserve Officers' Training Corps unit. The first and second floors are occupied by the departments of psychology and mathematics.

The Women's Gymnasium (34), built in 1908 for the physical activities of men and women, has been used for women since 1924. The basement of the gymnasium contains a swimming pool which is used by both men and women.

Boyd Hall (38) is a dormitory for women accommodating 81 students.

North of the campus are the Men's Faculty Club (3); the Student Center (6), which is the activity center for students; the Women's

Faculty Club (5); Howard Hall (7), a dormitory which accommodates 172 women; the president's home (8); and the Home Economics Practice House and Nursery (9).

East of the campus is the Agriculture and Household Arts Building (42). The University Student Health Service maintains an outpatient clinic, an emergency service, and a twenty-bed infirmary on the ground floor. The School of Home Economics occupies the first floor, the department of botany and the museum occupy the second floor, and the department of agriculture is on the third floor. The Nurses' Home (43) and the Greenhouse (44) are at the rear of the Agriculture Building.

South of the campus is Music Hall (46) which contains studios, classrooms, practice rooms, and an auditorium for the use of the School of Music.

The Men's Dormitory (49), composed, at present, of four units, Dana, Evans, Dunkle, and Gordy Halls, is located just off the southeast corner of the campus. It now houses 220 men, and when completed as a quadrangle will accommodate 350 students.

Hoover, Dunkle, Pearl Street, and Pierce Cottages (47, 48, 51, 52) are cooperative housing units for men students.

West of the campus is Lindley Hall (28), a dormitory accommodating 198 women.

The Rufus Putnam Building (10), which houses the University Elementary School, is located on East Union Street, to the northeast of the campus.

On President Street, west of the campus, are: Men's Gymnasium (26); Super Hall (25), housing the departments of civil engineering, electrical engineering, industrial arts, and physics; Science Hall (16), in which are the departments of chemistry and zoology; Music Hall Annex (14); and Cable, Bethel, and Ellis Cottages (17, 18, 19), cooperative houses for men students. Two other homes in the same block (not shown on the map) have been converted recently into cooperative houses for men. These are known as President and Court Cottages. Palmer Hall (2), at the corner of Washington and Congress Streets completes the group of buildings used in the cooperative plan for men.

The athletic field, composed of 50 acres, is located across the Hocking River, on the south side of Richland Avenue. The old athletic field contains the Animal House, a building for the housing of animals used in the laboratories of the departments of zoology and psychology; the tennis courts; the caretaker's house; and the baseball park. The new athletic field contains the stadium which has a seating capacity of 12,000.

The Astronomical Observatory is situated about a mile from the university on North Hill, just outside the city limits. The telescope, a reflector type with a twenty-inch aperture, was presented to the university in 1936 by Professor A. H. Carpenter of Armour Institute of Technology, an alumnus of the university.

MUSEUM. The museum, which contains more than 75,000 specimens, is located on the second floor of the Agriculture and Household Arts Building. The earliest recorded specimen, received in 1823, was a section of basalt from one of the pillars of the Giant's Causeway on the coast of Ireland.

The collection of rocks, minerals, and fossils number more than 30,000. There are sands, clays, and clay-products; Indian implements and utensils; stone and metal products of historic and economic interest; war materials and the fighting implements of various races; and lamps and lighting devices from the earliest ages. The plant collections include an herbarium of about 750 local species of plants, an extensive seed collection, woods, and various plant products. Among the animal exhibits are found sponges, jellyfishes, corals, various parasitic worms, starfish, and sea urchins; while the mollusca collection ranks among the best shown in American museums. There is also a collection of fishes, amphibians, reptiles, birds, and mammals.

Teachers are invited to make a wide use of the collections in their special fields of interest. Friday has been set aside as visiting day.

THE EDWIN WATTS CHUBB LIBRARY

The Edwin Watts Chubb Library contains 131,000 volumes and receives over 600 periodicals annually. The building has reading and seminar rooms with a seating capacity of 600. A seminar room and stack carols are set apart for the use of graduate students. The stacks, consisting of six floors, and periodical and reference rooms will accommodate 250,000 volumes. The library is a designated depository of United States documents which are classified and catalogued by the Dewey system.

In the art gallery are hung exhibitions loaned by art museums, dealers, and artists. There is also a permanent collection of paintings owned by the university.

An unusual feature of the library is the juvenile room which is open to the children of the town and which cares for the needs of the public schools. This feature gives student teachers an opportunity to become familiar with a well chosen collection of children's literature and serves as a model for the equipment and administration of a children's library.

An elective course in library service for the teacher-librarian, Ed. 143-144, School Library Administration, is conducted by the library staff.

SERVICE OFFICES

BUREAU OF APPOINTMENTS. Ohio University maintains a bureau of appointments to assist graduates to find positions. Contact is maintained with industry, superintendents of schools, and other employers. The service is extended to those seeking initial placement and to those who

seek advancement to more desirable positions. Registration with the bureau makes possible a complete collection of pertinent information which may be offered conveniently to persons interested in securing employees.

All students should register with the bureau early in the senior year; those completing the three-year diploma courses, in the third year. All records are kept up-to-date so that complete information may be available for immediate use. A fee of \$1 covers the cost of registration and the services which the bureau gives.

ALUMNI OFFICE. The alumni office, a central records office and service agency, located in Wilson Hall, is maintained jointly by Ohio University and the Ohio University Alumni Association. The work of the office is supervised by the alumni secretary, who is the administrative head of the alumni association.

The maintenance of personal records of graduates and former students is a primary function of the office. *The Ohio Alumnus*, published monthly from October to June, is mailed to all members paying the alumni dues.

Since the alumni office is a department of the university that serves as a connecting link between the institution and its graduates, the number and nature of the services rendered to both alumni and institution is large and difficult of classification. They range from attendance to the needs and requests of an individual alumnus to the organization of comparatively large numbers of alumni into permanent groups; and from cooperation with alumni chapter officers to cooperation in large-scale activities of the public relations office.

PUBLIC RELATIONS OFFICE. The university maintains a public relations office under the supervision of the director of public relations for the following purposes: to disseminate interesting and reliable information on all phases of university life to the press, prospective students, and alumni; to give the public school officers and prospective students information about the educational facilities of the university through personal interviews, literature, and correspondence; to provide educators, educational agencies, and other organizations with statistical and other information about the university; and to arrange for university talent as a service to high schools, civic groups, alumni chapters, and other organizations, in order that good will toward the university may be furthered.

STUDENT ACTIVITIES AND ORGANIZATIONS

CAMPUS AFFAIRS COMMITTEE

The committee authorized by the administration to handle and conduct all extra-curricular student affairs is known as the Campus Affairs Committee. This committee consists of eleven members, six of whom are faculty members appointed by the president. The other five are student members. Two automatically become members of the committee by position: president of the Men's Union and president of the Women's League. The other three members are chosen by the Men's Union and Women's League and are known as members-at-large. This committee has under its jurisdiction the confirmation of the officials for the college publications, as recommended by the subcommittee on publications; the confirmation of the candidates for offices, chosen by the selection boards, for the Men's Union, the Women's League, and the junior and senior classes; the allotment of all the Athletic, Lecture, and Entertainment fund not specified for athletics; the confirmation of the convocation programs; and the regulation of all social affairs involving both men and women.

STUDENT GOVERNMENT ASSOCIATIONS

THE MEN'S UNION. The Men's Union is an organization to which every regularly enrolled male student automatically belongs. Each man is entitled to all the privileges and the recreational facilities provided in the Student Center without additional cost. The Men's Union sponsors the Registration Hop in September, the annual Rodeo, Dad's Week-End during the football season, a varsity show, homecoming activities, social and scout work, and many other projects. Throughout the year the Men's Union also sponsors activities designed to be broad enough in scope to include the interests of every man on the campus. Each semester the Men's Union awards a gold medal to the man with the highest scholastic standing.

THE WOMEN'S LEAGUE. The all-women's organization, the Women's League, has an active membership of every regularly enrolled woman student. The Women's League office and club rooms are in McGuffey Hall. The third floor of this building includes one office and three club rooms supplied with magazines, books, radio, piano, and victrola. The activities sponsored consist of a Freshman Women's Party, dances, receptions, teas, Mother's Week-End, and vocational conferences. All the activities of the Women's League are arranged definitely to serve the needs of the young women of the campus and vary from time to time as these needs vary. Each year the Women's League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters.

THE STUDENT CENTER

The Student Center provides meeting places for various organizations of the men and women, and houses the student publications. The building includes a new ballroom, a billiard room, a women's lounge, and a separate men's lounge supplied with a radio, easy chairs, writing facilities, newspapers and magazines. The Students' Grill, opened in September, 1939, provides light lunches and fountain service, and is the most popular meeting place on the campus for the men and women of the university.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre is a theatrical organization which serves both the university and the community. Production details of the presentation of five plays are managed by the students enrolled in courses in the School of Dramatic Art. Casts are chosen at public tryouts from students, faculty, and townspeople.

THE FORTNIGHTLY PLAYSHOP. The Fortnightly Playshop is an experimental theatrical producing group principally comprised of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art. However, roles in Playshop productions are open to all students of the university. Bills of one-act plays are presented free of charge approximately every two weeks.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Participation in a program of about fifteen debates is in preparation for a tournament which decides the state championship. The group also schedules about twenty debates before high schools in the various parts of the state.

FRESHMAN DEBATE. Freshman Debate is sponsored for freshmen who may or may not wish to enroll in the regularly scheduled debate classes.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

INTERPRETATION CONTEST. Every year an average of four interpretation contests in poetry and prose are held for men and women. The State Interpretation Contest for women is held in connection with the State Oratorical Contest.

THE PREP FOLLIES. Under the direction of the Y. W. C. A., the pledges of the sororities participate in an annual original theatrical production.

THE DANCE CONCERT. The Dance Concert is an annual production of compositions in dance form which is presented by the Dance Clubs of Ohio University.

MUSIC ORGANIZATIONS

Membership in any music organization is based on competitive trials.

THE UNIVERSITY CHOIR. The personnel of the University Choir is chosen from among the best voices on the campus. The repertoire is selected from choral literature both accompanied and a cappella. Tours are made in the spring.

THE UNIVERSITY MEN'S GLEE CLUB. Among the traditional activities of the club is the annual serenade given during the Mother's Week-End, a spring homecoming. Tours and radio broadcasts are scheduled regularly.

THE VARSITY MALE QUARTET. The quartet is chosen from the membership of the University Men's Glee Club. Extensive opportunities for public appearances are given by demands from high school assemblies, service clubs, and churches.

THE UNIVERSITY WOMEN'S GLEE CLUB. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

THE UNIVERSITY BAND. The band of one hundred members has earned a reputation for its effective work in concert and at football games. The positions of drum-major and student leader are on a competitive basis.

THE UNIVERSITY ORCHESTRA. At present the orchestra has a membership of fifty-five, and because of talent and training many of its members play an important part in the state intercollegiate orchestral contests. The orchestra is used by the university on formal occasions, such as commencement.

THE CAMPUS ORCHESTRA. This orchestra is made up largely of students interested in direction and ensemble work and is under the direction of an instructor in school music.

PUBLICATIONS

The *Ohio University Post* is the triweekly university newspaper which is delivered to every student. The *Athena* is the college yearbook which is issued in May.

RECREATION

An extensive program is carried on for both men and women for participation in recreational activities.

The intramural program offered to the students consists of the following activities: touch football, paddle tennis, badminton, basketball, handball, bowling, wrestling, boxing, tennis, horseshoe pitching, indoor track, track, volleyball, foul pitching, playground ball, archery, and ping pong.

The varsity sports consist of football, baseball, basketball, track, tennis, swimming, and wrestling.

RELIGIOUS ORGANIZATIONS

The Y. W. C. A. is the campus religious organization for women. Its program includes social service activity in the Children's Home, County Infirmary, Hospital for the Insane, Sheltering Arms Hospital, mining centers around Athens County, and for shut-ins and the colored children in Athens, besides religious meetings, lectures, social functions, etc.

The religious welfare and interests of all students are fostered by the various organizations sponsored by the churches of Athens. The Methodist Church sponsors the Wesley Foundation with its divisions of Delta Sigma Chi, an organization for men, and Kappa Phi, a national organization for women; the Presbyterian Church sponsors the Westminster Fellowship with Phi Chi Delta, an organization for women; the Christian Church sponsors the Bethany Council with the national organization for women, Kappa Beta; the Catholic Church, assisted by a group of faculty members, sponsors the Newman Club for men and women; and the Episcopal Church sponsors the Episcopal Club. The Baptist Club and the Lutheran Club are sponsored for students by groups of faculty members. The Hillel Foundation of Ohio State University, Columbus, Ohio, sponsors an extension service for Jewish students.

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES

Phi Beta Kappa, organized at the College of William and Mary, Williamsburg, Virginia, in 1776, and established at Ohio University in 1929, is a society for the recognition of high scholastic attainment, primarily, although not exclusively, for men and women enrolled in the College of Arts and Sciences.

Kappa Delta Pi, organized at the University of Illinois, Urbana, Illinois, in 1911, and established at Ohio University in 1923, is a society for the recognition of high scholastic attainment, primarily, although not exclusively, for men and women enrolled in the College of Education whose chosen profession is in the field of education.

Kappa Tau Alpha, organized at the University of Missouri, Columbia, Missouri, in 1910, and established at Ohio University in 1929, is a society for the recognition of scholastic attainment in the field of journalism particularly, but men and women eligible for membership must attain high scholarship in their general university work as well. Chapters of the society are limited to Class A schools and departments of journalism.

Phi Eta Sigma, organized at the University of Illinois in 1923, and established at Ohio University in 1936, is a society for the recognition of high scholastic attainment of freshmen men.

CAMPUS LEADERSHIP SOCIETIES

Mortar Board, organized at Syracuse, New York, in 1918, and established at Ohio University as Cresset Chapter in 1938, is a society for senior women who have attained recognition in scholarship, leadership, and service. The organization on the Ohio University campus meets the requisites of the honor society division.

Phoenix, established at Ohio University in 1931, is an organization for junior women who have attained recognition in activities, service, and scholarship.

Torch, established at Ohio University in 1913, is a local organization primarily for senior men who have attained recognition in activities.

J Club, established at Ohio University in 1930, is a local organization for the recognition of junior men.

PROFESSIONAL SOCIETIES*

Accounting -----	Beta Psi (local)
Botany -----	Kappa Alpha Beta (local)
Classical Languages -----	Eta Sigma Phi
Dramatic Art -----	Tau Kappa Alpha
Education -----	Lambda Tau Sigma,** Pi Theta**
Engineering -----	Pi Epsilon Mu (local)
French -----	Alliance Francaise
Home Economics -----	Phi Upsilon Omicron
Industrial Arts -----	Epsilon Pi Tau
Music -----	Phi Mu Alpha, Sigma Alpha Iota
Painting and Allied Arts -----	Delta Phi Delta
Psychology -----	Psi Chi (local)
Sociology -----	Alpha Kappa Delta

SPECIAL INTEREST SOCIETIES*

American Institute of Electrical Engineers	Ohio University 4-H Club
Beta Pi (service club)	Ohio University Radio Club
Choregi	Pershing Rifles
Classical Club	Phi Sigma Epsilon (students of Greek extraction)
Dance Club	Philosophy Club
Der Deutsche Verein	Progressive Club
Dolphin Club	Quill Club
Elementary Education Club	Scabbard and Blade
Fortnightly Playshop	Sigma Delta Chi (journalism, men)
Hispanic Club	Sigma Rho (journalism, women)
Home Economics Club	Town Meeting Council
Industrial Arts Club	Varsity O
Kappa Kappa Psi (band)	Women's Athletic Association
Kindergarten-Primary Club	Young Women's Christian Association
Ohio University Chemistry Club	
Ohio University Engineers	Zoology Club (Phi Zeta)

*Grouped in accordance with the recommendations of a joint committee representing the National Association of Deans of Men and the National Association of Deans of Women.

**Active during summer session.

STUDENT GOVERNMENT ASSOCIATIONS

Men's Union

Women's League

RELIGIOUS SOCIETIES

Baptist Club
 Bethany Council (Christian)
 Christian Science Club
 Episcopal Student Club
 Hillel Foundation Extension Division (Jewish)
 Kappa Beta (Christian women)
 Kappa Phi (Methodist women)
 Lutheran Club
 Newman Club (Catholic)
 Phi Chi Delta (Presbyterian women)
 Delta Sigma Chi (Methodist men)
 Wesley Foundation
 Wesley Players
 Westminster Fellowship

SOCIAL SOCIETIES

INTERFRATERNITY COUNCIL (MEN)

Beta Theta Pi—Beta Kappa Chapter, 1841
 Delta Tau Delta—Beta Chapter, 1862
 Phi Delta Theta—Ohio Gamma Chapter, 1868
 Sigma Pi—Epsilon Chapter, 1910
 Phi Kappa Tau—Beta Chapter, 1917
 Theta Chi—Alpha Tau Chapter, 1925
 Tau Kappa Epsilon—Alpha Beta Chapter, 1927
 Phi Kappa—Psi Chapter, 1929
 Pi Kappa Alpha—Gamma Omicron Chapter, 1929
 Alpha Phi Delta—Beta Zeta Chapter, 1933
 Phi Epsilon Pi—Alpha Rho Chapter, 1933

PANHELLENIC COUNCIL (WOMEN)

Pi Beta Phi—Ohio Alpha Chapter, 1889
 Alpha Gamma Delta—Zeta Chapter, 1908
 Alpha Xi Delta—Pi Chapter, 1911
 Chi Omega—Tau Alpha Chapter, 1913
 Alpha Delta Pi—Xi Chapter, 1914
 Zeta Tau Alpha—Alpha Pi Chapter, 1922
 Phi Mu—Delta Delta Chapter, 1927
 Tower—Local, 1938

Ohio Independent Association, 1938 (Men)

PRIZES AND AWARDS

A. A. ATKINSON AWARDS. An award of \$10 as a first prize and \$5 as a second prize is given to the best senior students majoring in the department of electrical engineering, and an award of \$10 to the best senior student majoring in the department of physics. Two committees, composed of the teaching staff of each department, select the candidates for the prizes and are governed by the following rules:

1. Scholarship in all courses for the sophomore, junior, and senior years.
2. Intellectual alertness and keenness of insight as determined by the instructors in the students' major and minor fields.
3. Originality, initiative, intellectual honesty, and personal industry.
4. Correctness and facility in the use of spoken and written English.
5. Character, personality, leadership, and other characteristics likely to promote success in the students' fields.

ALLIANCE FRANCAISE PRIZE. The Alliance Francaise offers each year a prize of \$15 to the student who has the highest record in advanced French (i.e., the greatest number of points in courses beyond 102), provided that the minimum requirement of 18 hours with an average above 3.600 in these courses has been attained. A student who has once won the prize will not be eligible for consideration.

ALPHA DELTA PI SCHOLARSHIP PRIZE. Xi chapter of Alpha Delta Pi social sorority each year presents a silver loving cup to the girl who has attained the highest scholarship average at the end of her sophomore year. It is necessary that this girl be enrolled in the university at the time the award is presented. All sophomore girls are eligible to compete for the prize.

CHI OMEGA ECONOMICS PRIZE. Tau Alpha chapter of Chi Omega, in accordance with the national policy of the fraternity begun in 1920, offers each year a prize of \$25 to the girl who does the highest grade of work in the department of economics. Any girl in the university is eligible to compete for the prize.

CUYAHOGA COUNTY BOBCAT CLUB AWARD. The Bobcat Club of Cuyahoga County, Ohio, makes an annual award on Honors Day to a freshman boy who stands scholastically in the five highest from Cuyahoga County. The final selection of one in the five highest is made by the Scholarships Committee acting with the dean of men.

EMERSON POEM PRIZES. W. D. Emerson, of the class of 1833, bequeathed to the board of trustees of Ohio University the sum of \$1,000.

The interest on this amount is awarded every second year to the students or graduates of Ohio University who write the best original poems. The award is divided into three prizes of \$60, \$40, and \$20. The judges are three persons, appointed by the president of the university and the chairman of the department of English, who judge independently of each other.

The following regulations must be observed in every particular:

1. The competitors must be graduates of the university or students in attendance.
2. The poems must be in the hands of the president of the university before the opening of the second semester of 1942-1943.
3. Only one poem is to be submitted by each competitor.
4. Each contestant shall submit three copies.
5. The poem shall be typewritten on paper eight and one-half by eleven inches, written only on one side, and marked with a pseudonym or character.
6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the president of the university. The envelopes will not be opened until the decision of the judges has been made.

The winner of the first prize is not eligible for a second competition.

EVANS LATIN PRIZES. The Dafydd J. Evans Latin prizes consist of a first prize of \$25 and a second prize of \$12.50 to be awarded each year.

The considerations in determining the awards are ability to read Latin and a command of the structural side of the language, together with a knowledge of Roman history, literature, and life. Students are not ordinarily considered for the awards before they enter upon the second semester of junior-senior Latin.

The committee consists of the members of the staff in the department of classical languages and the alumni secretary.

HORN SENIOR COMMERCE PRIZE. Mr. Clarence H. Horn, of Athens, Ohio, conducted a senior course in "Accounting for Coal Production and Distribution" for the College of Commerce for a number of years before his death on November 26, 1927, and established a trust fund from the fees he received for this service. The income from the fund is paid annually to the senior who is graduating from the College of Commerce with the degree of Bachelor of Science in Commerce and who receives the highest scholastic average in commerce subjects. The prize amounts to approximately \$24.

JOHN BAYARD THOMAS BIOLOGY PRIZE. The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, '98, as a memorial to his nephew. The prize consists of \$25 to be awarded

annually to the junior or senior premedical student who has done the highest grade of work in courses offered by the department of zoology. In making the award, consideration is given to the subjects covered and the quality of work performed. A student who has once won the prize is not again eligible for consideration.

The committee on awards consists of the head of the department of zoology and the dean of the College of Arts and Sciences.

MARVIN ELIOT GOLDHAMER AWARD. The Hillel Foundation of Ohio University gives annually a cash award of \$10 to the student of junior rank who has done the highest grade of work in courses offered by the department of civil engineering. The award was established as a memorial to the late Marvin Eliot Goldhamer, Cleveland.

MEN'S UNION SCHOLARSHIP PRIZES. The Men's Union awards each year two keys, one each semester, to the man having the highest scholastic standing. These are presented in the spring and are based upon the standings of the second semester of the preceding year and the first semester of the current school year.

The Men's Union also offers three cups; one each, to the social fraternity, the pledge chapter, and the independent housing unit, which has the highest scholastic average for the first semester.

ROSS COUNTY ALUMNI AWARD. The Ross County chapter of the Ohio University Alumni Association annually recognizes the "Outstanding Student from Ross County" with the presentation of a gold key. Scholarship is the principal factor considered by the selection committee which is composed of the chairman of the Scholarships Committee, the deans of men and women, and the alumni secretary.

SIGMA ALPHA IOTA MUSIC PRIZE. Sigma Alpha Iota, national professional music fraternity for women, gives a prize of \$25 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts in Music, or for the degree of Bachelor of Science in Education with a major in music, who has attained the highest cumulative scholastic average above 3.000.

SUPER GREEK PRIZES. In honor of Dr. Charles W. Super, a former president of Ohio University and professor of Greek, his students and friends established the Super Scholarship Prize Fund of \$2500. The income from this sum provides a first prize of \$100 and a second prize of \$50 to be awarded annually to members of the junior and senior classes.

The awards are based upon the extent and quality of the work done in courses in the Greek language and literature; in courses dealing with Greek civilization and culture, and with classical culture in general; and in courses in the languages as a whole.

The committee in charge of the awards consists of the chairman of the department of classical languages and the dean of the College of

Arts and Sciences, in consultation with other members of the department. Details may be obtained from members of the committee.

TAU KAPPA ALPHA FORENSIC PRIZES. Each year the Ohio University chapter of Tau Kappa Alpha, national honorary forensic fraternity, conducts a series of contests in the field of public speaking. The fraternity awards medals to the winners of each of these contests. They include extempore speaking contests for both men and women, and men and women's oratorical contests to choose representatives for state intercollegiate competition. A campus-wide intramural debate tournament is also sponsored by Tau Kappa Alpha. The winning unit in both the men's and the women's divisions is awarded a loving cup.

WOMAN'S MUSIC CLUB PRIZE. The Woman's Music Club of Athens awards a prize of \$25 annually to a senior woman having a major in music. The recipient is chosen on the basis of academic average and excellence in performance.

WOMEN'S LEAGUE SCHOLARSHIP AWARD. The Women's League awards a prize of \$25 for high scholarship to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholarship average for a period of two consecutive semesters, from February to February in the preceding and current years.

ADMISSION INFORMATION

All correspondence regarding admission of a student to the university should be addressed to the Registrar and Director of Admissions, Ohio University, Athens, Ohio.

An application blank and all credentials for admission, including a certificate of vaccination, should be presented to the registrar's office not later than one month preceding the opening of the semester or summer session. If it is impossible for a student to have his credentials forwarded at that time, he should attach the necessary explanation to his application for admission. Not even temporary admission is granted in the absence of proper credentials. All credentials of matriculated students are filed in the registrar's office and remain the permanent property of the university.

A student entering the university for the first time must show evidence that he is protected against smallpox by vaccination. Details of this requirement are given under the heading, "University Health Service."

FRESHMAN STUDENTS. The university admits without examination all graduates of high schools in Ohio which are on the approved list of the State of Ohio Department of Education. A graduate of an out-of-state high school is admitted if the high school from which the student is graduated is on the list of high schools approved by the Board of Education of that state, and if he qualifies for admission to the state university of his own state. A resident of a state which does not support a state university of the same general scope and standards as Ohio University is admitted if he ranks in the upper two-thirds of his graduating class.

TRANSFER STUDENTS. A student transferring from another college or university must present an official transcript which includes a statement of honorable dismissal from the school last attended. A transfer student is admitted to a degree college if he has completed the requirements of the University College. He is given rank according to the Ohio University classification of students.

A student transferring from an unaccredited college may obtain credit by examination. Permission to take special examinations is granted by the registrar. A fee of \$2 is charged for each semester hour. For further information consult "Advanced Standing Examinations."

SPECIAL STUDENTS. A special student may be a college graduate who does not wish to take undergraduate work or graduate work leading to another degree, a transient student who expects to transfer credit earned to the school he has been attending, or a student who is at least twenty-one years of age and has not graduated from high school. The graduate of a college presents a statement of graduation with his application for

admission, a transient student presents a statement of good standing from the school last attended. Transcripts of record are not required.

A special student taking undergraduate work enrolls in the college in which he is carrying the majority of his courses. A special student taking graduate work enrolls in the Graduate College.

Special students who are at least twenty-one years of age and have not graduated from high school may make up high school deficiencies, if they desire to do so, by taking special examinations in accordance with regulations given under the heading, "Advanced Standing Examinations" and transfer college credit to high school credit at the rate of three semester hours for one unit.

COLLEGE ABILITY TEST. An undergraduate student entering Ohio University for the first time is required to take the college ability test. He is notified of the date, place, and hour of the test with his admission credentials. A student who fails to take the test at the appointed time or who applies for admission too late to take the test at the appointed time is required to take the test at a later date and pay \$1 to cover the expenses incurred.

A student who transfers from an accredited college and presents a satisfactory statement concerning the test name, the score, and the percentile is excused from this requirement. A transfer student who fails to present a certified record in time to be excused from the first test is required to take the test at a later date and pay \$1 if his test record when presented is not satisfactory. A student from another college who attends the university only during a summer session is excused from the requirement.

GRADUATE STUDENTS. Only graduates of accredited institutions are accepted for admission. A student who does not expect to receive a master's degree from Ohio University enrolls as a special student and needs to present only an official statement of graduation. Additional information concerning admission is given in the description of the Graduate College.

AUDITORS. A student who is a graduate of an accredited high school or who is twenty-one years of age may enroll as an auditor. A written permission from the instructor of the class the student wishes to audit must be presented at registration time. A registration fee of \$2 is charged for each semester hour of the subject; during the post summer session, the fee is \$1 for each course. Registration should be made on the regularly scheduled days. A late registration fee of \$1 is charged for registration immediately after registration closes and increases by \$1 for each week late.

BOARD AND ROOM

MEN'S DORMITORY. The Men's Dormitory includes four housing units, Dana, Evans, Dunkle, and Gordy Halls, with accommodations for 220 men, living quarters for a resident manager, dining room facilities,

and a large lounge. The dormitory is located on the southeast side of the campus just a step from classrooms.

A room rents for \$45 each semester, and board costs \$90 for the first semester and \$85 for the second semester. The full charge for room and board for the semester is payable on or before the end of the first week of school. In special cases, installment payments may be arranged through the resident manager according to the following schedule: one third of the total assessment for the semester (\$45) to be paid by the end of the first week after school begins, one third at the end of the first month, and the balance at the end of the second month. These payments are made at the office of the university treasurer. All men rooming in the dormitory are required to eat in the dormitory dining room where cafeteria service is used for breakfast and luncheon and table service for dinner. Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bedding. One blanket is included for each bed. The university provides for the laundering of the bedding. Window draperies and additional furnishings may be supplied by the student.

Application for a room should be made at the office of the dean of men. A \$5 retaining fee, payable to the Men's Dormitory Association, Ohio University, must accompany the application. If the office of the dean of men is notified at least ten days before school begins that the application is to be cancelled, \$3 of the retaining fee is refunded.

The retaining fee is used to carry on the social program for the year consisting of dances, teas, receptions and smokers, and to purchase periodicals for the book room. If a student withdraws from the dormitory at or before the end of the first semester, one half of the retaining fee is refunded. Students entering for the second semester pay only one half of the fee.

MEN'S COOPERATIVE HOUSES. There are four cooperative housing units owned and operated by the university. These units house 183 men and have dining room facilities for approximately 350. Since more men can be accommodated for board than for room, it is necessary for a number of the men boarding under the cooperative plan to live outside of the units.

A room in a cooperative unit rents for \$27 a semester for each person. Room rent is payable at the office of the treasurer of the university and each semester's charge is paid in two installments. One installment is paid at the beginning of the semester and the other is paid at approximately the middle of the semester. The exact dates of the payments that follow the initial payment are indicated at the time of appointment. Board is payable each week to the student manager. The cost of board for the 1939-1940 school year averaged approximately \$2.85 a week. The cost varies depending upon prevailing food prices. The low rates are made possible because the men participating in the cooperative plan take turns waiting on table and washing dishes. A matron and a student manager are in charge of each unit. All units are under the direct supervision of the office of the dean of men.

Each student assigned to board and room in a cooperative unit is required to pay a \$20 board deposit, a \$15 initial room rent payment, and a \$1 social activities fee. Students who board in the cooperative units and secure rooms in private homes do not pay the room rent assessment to the university. The board deposit may be used to apply against the charges for the last period in which the student is a member of a cooperative unit. The social activities fee is not refunded.

The cooperative units are open only to those men who find it necessary to live on decidedly reduced incomes. Admission is based upon need and scholarship. Applications are made at the office of the dean of men, Cutler Hall.

ROOMS FOR MEN. Rooms in private homes which have been inspected and approved are listed in the office of the dean of men, Cutler Hall. Men students are required to live in homes that have been approved. The price of the majority of double rooms varies between \$2 and \$2.50 a week per person and single rooms between \$3 and \$4.

A student renting a room in a private home is expected to remain in the home for one semester unless definite arrangements are made with the householder. The agreement may be terminated by the mutual consent of both parties, by the withdrawal of the student from the university, by securing a satisfactory substitute, or by the request of the dean of men if in his judgment it is for the best interest of the student's health or scholarship.

FRATERNITY HOUSES. The following fraternities maintain houses near the campus: Alpha Phi Delta, Beta Theta Pi, Delta Tau Delta, Phi Delta Theta, Phi Epsilon Pi, Phi Kappa, Phi Kappa Tau, Pi Kappa Alpha, Tau Kappa Epsilon, Theta Chi, and Sigma Pi.

WOMEN'S DORMITORIES. The living accommodations of all women in the university are under the supervision of the office of the dean of women. There are three dormitories, Boyd Hall, Howard Hall, and Lindley Hall. Sixty per cent of the rooms in each are held for entering students and forty per cent for upperclass applicants (former students).

Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bed linen. The university cares for the laundering of the bed linen. Couch covers, window draperies, blankets, and desk lamps are supplied by the students. Radios are permitted in the rooms upon the payment of a fee of \$3.50 for the regular year and \$1 for a summer session. Failure to pay the fee or to abide by the rules of a house council pertaining to radio hours carries the penalty of discontinuance of the privilege.

Each dormitory plans and develops a social program for those who live in the hall and those who come in for meals from private homes. The university administration has authorized the use of the retaining fee for a fund to carry on the social program of dances, teas, receptions, and dinner parties. Only a portion of the retaining fee is needed for the

social program of the summer session, the balance being applied to the room rent.

Double rooms in the dormitories rent for from \$45 to \$54 for a student each semester; single rooms for from \$58.50 to \$72. In addition to the rental fee, each dormitory resident is expected to give approximately one hour a week in telephone and desk service. In lieu of this, she may pay the house council its equivalent in money. The house council of each dormitory requires a \$1 key deposit fee from each student. This fee is refunded upon the return of the key when the room is vacated.

Dormitory residents are required to eat in the dormitory in which they are living. Freshman women who live in private homes are also required to eat in an assigned dormitory dining room. Exemptions from this requirement are granted to residents of Athens or immediate vicinity, to students who commute, to students who work for room and board, and to a few whose parents request exemption on the justifiable grounds of financial saving. The dean of women personally passes upon all such requests and determines the validity of the grounds presented. Upper-class women living in private homes who arrange to eat in the dormitory dining rooms at any time during the semester must continue eating there until the end of the semester, unless special permission to withdraw is granted by the director of dining rooms and the dean of women. The dining rooms in the three dormitories are under the management of a competent dietitian who is assisted by graduate students enrolled in institutional management in the School of Home Economics. The cost of board is \$81 for each semester. By special permission, freshmen may eat at an approved boarding club if they are rooming in the same house.

Board and room fees for the semester may be paid in advance during the first week of the semester, or may be paid in four installments as arranged. Room and board fees are paid at the office of the treasurer of the university.

New students should make application for room simultaneously with application for matriculation, or as soon after as possible. Applications for rooms in a dormitory are considered only if accompanied by a \$5 retaining fee. If, for good reason, a student is unable to claim her reservation, the fee is refunded, provided a request for refund is made not less than one week preceding the beginning of the semester. The retaining fee is applied to the social fund of the dormitory. The application and retaining fee of \$5, made payable to the Students General Fund, Ohio University, should be mailed to the Dean of Women, McGuffey Hall, Ohio University.

ROOMS FOR WOMEN. Women students also live in private homes inspected and approved by the supervisor of off-campus housing. A list of the homes is available in the office of the dean of women. Information or application for a room may be obtained by addressing the Supervisor of Off-Campus Housing, Office of the Dean of Women, Ohio University.

SORORITY HOUSES. The following sororities maintain houses near the campus: Alpha Delta Pi, Alpha Gamma Delta, Alpha Xi Delta, Chi Omega, Phi Mu, Pi Beta Phi, and Zeta Tau Alpha.

UNIVERSITY STUDENT HEALTH SERVICE

The Health Service, with a staff of two doctors and five nurses, operates an outpatient clinic, an emergency service, and a twenty-bed infirmary. The clinic is open during the day, with entrance at the main door of the Agriculture Building. The emergency service is open at other times, with entrance at the rear of the same building. The personnel of the service comprises 18 individuals, of whom 9 are students.

A continuous record of each student's health is maintained by the service. Physicians of the Health Service have authority on the campus to take steps that may be necessary for the maintenance of health, and students are expected to cooperate with them in the prevention of communicable disease.

A health fee of \$4 a semester, paid by each student as he registers, entitles him to the use of the facilities of the Student Health Service, under the following heads:

1. Physical examination. Each freshman on admission receives a routine physical examination including certain laboratory tests. If a student wishes, he may have this examination repeated annually.

2. Outpatient clinic. Students are encouraged to come freely to the clinic to secure treatment for minor ailments, and to get counsel on physical and emotional problems. An important feature of the clinic is the diagnostic equipment, which includes an excellent X-ray apparatus and a clinical laboratory equipped to make microscopic, chemical, and bacteriological tests. Most of this service is given without charge. X-ray examinations and certain injections are furnished at cost of materials.

3. Infirmary. This department of the Health Service has a ward for men, a ward for women, and three single rooms. Admission to the infirmary, within the maximum capacity, is at the discretion of the university physicians, and may be advised for the patient's own welfare, or for that of his associates. The daily charge of \$3 is remitted to the extent of seven days a semester to all students admitted to the infirmary. If the infirmary is full, or if a student requires major surgery, the university physicians may authorize payment for hospitalization elsewhere at the rate of \$3 a day, rising to a maximum of \$21. After the first seven days of hospitalization in the infirmary, the daily charge is \$2, and a portion of this is rebated to students residing in university dormitories.

It must be noted that the university physicians are not available for medical calls outside the Health Service, except for diagnosis where contagious disease is suspected. Private physicians in the community will make house calls at the request of, and at the expense of, students

desiring such service; on the same terms, local surgeons are qualified to care for students requiring major surgical operations, at the Sheltering Arms Hospital in Athens.

VACCINATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox before being admitted to Ohio University. A blank certificate giving detailed instructions is sent to each applicant for admission and must be returned to the registrar, properly completed and signed, before the student is accepted for admission.

FEEES AND DEPOSITS

Fees are assessed at registration time and are payable at the treasurer's office. Students pay an additional fee for late registration or for late payment of fees. Information concerning the date which determines late registration or late payment is indicated in the Schedule of Classes. The treasurer accepts cash and postal money orders, express money orders, or approved personal checks written for the exact amount of the obligation.

REGISTRATION FEEES

The Semester Session	*Resident	**Non-resident
Full-time Students—Registration Fee, general_____	\$40.00	\$65.00
Registration Fee, Athletic, Lecture, and Entertainment _____	5.00	5.00
Library Fee _____	1.00	1.00
Health Fee _____	4.00	4.00
	<hr/>	<hr/>
Total for each semester _____	\$50.00	\$75.00
Part-time Students (less than nine semester hours)—Registration Fee, general for the first semester hour _____	3.00	5.00
For each additional semester hour_____	3.00	4.50
A. L. E., Library, and Health Fees same as above		
(Health fee exempt for music special students and graduate students enrolled for conference courses)		

*A person is entitled to register as a resident of Ohio who, at the time of his first enrollment in the university, has been a resident of the State of Ohio for twelve consecutive months next preceding the date of his original enrollment. No person shall be considered to have gained or lost a residence in the state for the purpose of registering in the university by any conduct of his own while he is a student in the university, unless after attendance at the university for one year it can be clearly established by the student that his previous residence has been abandoned and a new one established in Ohio for purposes other than merely attendance at Ohio University. A person whose legal residence follows that of other persons shall be considered to have gained or lost legal residence in this state for such purpose while a student in the university according to changes of legal residence of such other persons, except that such legal residence shall not be considered to be so gained until twelve months after such persons become legal residents of this state.

The residence of minors shall follow that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule shall not be considered to be established in the State of Ohio until the expiration of twelve months after such appointment.

**Students coming from states which do not have state universities similar in scope and standards to Ohio University pay a general registration fee of \$95 each semester session and \$45 during the summer session. These states are Massachusetts and New York.

	*Resident	**Non-resident
The Summer Session		
Full-time Students—Registration Fee, general_____	\$20.00	\$32.50
Registration Fee, Athletic, Lecture, and Entertainment _____	2.50	2.50
Library Fee _____	1.00	1.00
Health Fee _____	1.00	1.00
Total for the summer session_____	\$24.50	\$37.00
Part-time Students (less than five semester hours)—Registration Fee, general for the first semester hour _____	3.00	5.00
For each additional semester hour_____	3.00	4.50
A. L. E., Library, and Health Fees same as above (Health fee exempt for music special students and graduate students enrolled for conference courses)		
The Post Summer Session—Registration Fee, general for the first semester hour_____	5.00	7.00
For each additional semester hour_____	5.00	6.50
Library Fee _____	1.00	1.00
Auditors—Registration Fee for semester and summer session for each semester hour_____	2.00	2.00
Registration Fee for post summer session_____	1.00	1.00
Library Fee _____	1.00	1.00
Correspondence Study—Registration Fee, for each semester hour _____	6.00	6.00
Postage Fee, for each semester hour_____	.50	.50
Extension Class—Registration Fee, for each semester hour _____	5.00	5.00

MUSIC FEES

Registration fees for private instruction in music are assessed in addition to the above registration fees. The fees are indicated in the "Courses of Instruction" under the division of "Applied Music."

MISCELLANEOUS FEES

Bureau of Appointments, registration fee_____	\$1.00
Change of College _____	1.00
Change Order _____	1.00
College Ability Test, when not taken at the designated time_____	1.00
Duplicate Fee Card _____	.25
Examination for advanced standing, each semester hour_____	2.00
Grade Report Book (after the first book)_____	.25
Grade Report (after the first copy)_____	.25
Graduation—	
Application for degree _____	5.00
Application for a three-year diploma_____	2.50
Re-application _____	1.00
Penalty for late application_____	1.00
Excuse from commencement _____	5.00
‡Infirmary, hospital service for each day_____	3.00

*See note on preceding page

**See note on preceding page

‡See "University Student Health Service"

Late registration or late payment of fees.....	1.00
Each additional day late (after date announced).....	1.00
Auditors, graduate students taking work on a conference basis, and music specials, for each week late.....	1.00
Maximum penalty for a semester.....	5.00
Maximum penalty for the summer session.....	5.00
Speech Test	1.00
Thesis Abstract Printing	2.50
Thesis Binding, each copy	1.90
Transcript of record (after the first transcript).....	1.00

LABORATORY FEES

Laboratory fees, in general, are assessed at the rate of \$1 for one semester hour of credit. Laboratory fees are indicated in the description of the course. See "Courses of Instruction." These fees are assessed and must be paid at registration time.

Laboratory fees for student teaching are assessed at the rate of \$2 for one semester hour of credit.

Laboratory fees for the summer sessions are the same as for a semester.

BREAKAGE FEES

A breakage deposit fee is required in several departments. When the fee is paid, a deposit card is issued to the student. This card is deposited by the student with the department and entitles the student to a desk properly supplied with apparatus. Any needed supplies are checked from the card and any unused portion of the fee is returned at the end of the year or upon official withdrawal from the course.

REFUND OF FEES

In case of a student's voluntary and official withdrawal from the university, a refund of a part of the fees is made according to the following schedule:

The Semester Session:

1. Within the first and second weeks, 90% refunded
2. Within the third and fourth weeks, 66 $\frac{2}{3}$ % refunded
3. Within the fifth and sixth weeks, 25% refunded
4. After six weeks, no refund

The Summer Session:

1. Within the first week, 75% refunded
2. After first week, from second to third weeks inclusive, 50% refunded
3. After third week, no refund

The Post Summer Session:

1. Within the first week, 50% refunded
2. After first week, no refund

No refund, however, is made until a period of thirty days has elapsed subsequent to the official withdrawal of the student from the university. No refund is made on the athletic, lecture, and entertain-

ment fee. No refund is made to a student who is indebted to the university.

When a student withdraws from a laboratory course by change order, a refund of the laboratory fee is made immediately according to the foregoing schedule. A department may disallow refunds if at the time of withdrawal the materials used by the student are of such a nature that the department can make no use of them for another student.

EXPENSE ESTIMATE

The following is an estimate of expenses for a year (two semesters) at Ohio University:

	Men	Women	
Registration fee, general -----	\$ 80.00*	\$ 80.00*	
Athletic, lecture, and entertainment fee -----	10.00	10.00	
Health fee -----	8.00	8.00	
Library fee -----	2.00	2.00	
Rent of room (double) in dormitory_	90.00	90.00	— 108.00**
Board in dormitory -----	175.00	162.00	
	<u>\$365.00</u>	<u>\$352.00</u>	— 370.00

The above estimate does not include laboratory fees, books, laundry, or incidentals because these items are variable. The fee for a laboratory course varies from \$1 to \$10; the amount is indicated in the description of the course. Students who desire private instruction in music pay fees, in addition to the registration fees, as indicated in the description of each course (see Applied Music). The cost of books amounts to from \$20 to \$30 for a year. The cost of laundry and incidentals is determined by the needs of the student.

The student who plans to live in a dormitory should be prepared to spend from \$200 to \$225 during the first week. Arrangements may be made to pay the dormitory assessments in installments. When this has been done, the amount necessary for the first week can be reduced to approximately \$125. All other students should be prepared to spend from \$75 to \$100 during the first ten days or two weeks. For additional information see "Board and Room." Out-of-state students need \$25 or \$50 more than the amounts indicated.

A limited number of men students are accommodated in cooperative houses where board can be obtained for \$100 to \$110 per year and room costs \$54 per year. Because of the limitation on the number that can be placed under this system, men students should not come to the university expecting to live in the cooperative houses unless arrangements have been made in advance. For further details see "Men's Cooperative Houses" under heading "Room and Board."

Students living in private homes may secure room and board for approximately the same sums as given under the above estimates. In a

*The registration fee for students who are not residents of Ohio is increased by the nonresident fee. See "Fees and Deposits."

**Single rooms-----\$117 — \$144.

few cases, the sums may be slightly less. Information concerning these accommodations may be obtained from the offices of the dean of men and the dean of women.

The university does not make provision for handling student accounts. The local banks, however, render such service. Registration fees may not be paid to the treasurer of the university before the day of registration; board and room accounts, not before Friday of the first week of the session.

STUDENT AID

EMPLOYMENT OPPORTUNITIES FOR STUDENTS. Every effort is made to secure employment for those students who are partially self-supporting, but it is impossible to find work for all students needing assistance. With this in mind, every student should survey carefully the costs involved in attending Ohio University and compare them with his available resources. No one should attempt part-time employment unless financial circumstances make it absolutely necessary. A student can more wisely devote his time to educational opportunities and also make it possible for a student whose needs are greater to attend the university. Those students who find it necessary to earn a part of their expenses while attending the university should make application for employment at the office of the dean of men or the dean of women. Students engaged in regular part-time employment who desire to carry more than 12 semester hours must obtain a permit from the dean of men or the dean of women.

SCHOLARSHIPS

OHIO UNIVERSITY SCHOLARSHIPS. Ohio University offers a limited number of scholarships, which consist of the remission of the general registration fee of \$40 a semester, to students with high scholastic records.

Entering freshmen who rank in the upper five per cent of their high school graduating classes are eligible to apply for scholarships. Freshmen men and freshmen women who qualify must make application for scholarships with the dean of men and the dean of women, respectively, between the dates of April 1 and August 1.

Scholarships are awarded in a limited number to sophomores, juniors, and seniors. Students who have made a scholastic average of 3.300 or above in Ohio University have the privilege of applying. Applications for these scholarships must be filed in the office of the dean of men and the dean of women, respectively, on or before April 1. A scholarship and an assistantship may not be held simultaneously by an upperclass student.

See "Graduate College" for scholarships and fellowships offered for graduate students.

COLUMBIA DOWNING SCHOLARSHIP. Mrs. Madeline Downing Knight, South Jacksonville, Florida, has established a scholarship fund of \$10,000

as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income of the fund, \$600, is awarded annually under the following conditions:

1. The scholarship is to be known as the Columbia Downing Scholarship.
2. The scholarship is to be awarded to a needy boy who is a citizen of Ohio, preferably a native.*
3. The scholarship is to be awarded to a member of the sophomore class on the basis of mental and physical health, demonstrated intelligence in his work as a freshman, acceptable character and conduct, and a satisfactory grade of scholarship as a freshman.
4. Preference is given to students who have done effective work in extra-curricular activities such as debate, music, oratory, or athletics.
5. The scholarship may be renewed in the junior and senior years, provided the need continues and the standards as set forth in item 3 are maintained.
6. The selection is not to be based entirely upon proficiency in any subject, but rather on the promise of development in strength of character and on the qualities of useful citizenship.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in collegiate activities. Information may be obtained from Dr. R. A. Foster. Appointments to Rhodes Scholarships have been discontinued during the war.

LOAN FUNDS

ALUMNI LOAN FUND. The alumni and friends of Ohio University have contributed \$7,692.51 since 1908 for the purpose of furnishing loans to students pursuing a four-year course in the university. To receive a loan a student must have attained junior or senior rank and have at least a C (2.000) average. Five per cent interest is charged. Since the first loan was made in 1908, \$63,775.77 has been advanced to needy students. The fund is administered by a committee of which the director of public relations is chairman.

ATHENS ROTARY CLUB LOAN FUND. The Rotary Club of Athens maintains a loan fund for students who have attended Ohio University at least one year. Students pay interest on the loans. Inquiries may be addressed to the Chairman of the Rotary Club Loan Fund Committee, Bank of Athens, Athens, Ohio.

*Sometimes the amount is divided among several qualified students.

THE CLINTON POSTON BIDDLE MEMORIAL LOAN FUND OF OHIO UNIVERSITY. On June 3, 1939, Doctor and Mrs. T. R. Biddle gave \$5000 to the university for the purpose of establishing a loan fund in memory of their son, Clinton Poston Biddle. Loans, from \$25 to \$200 at five per cent interest, may be made from this fund to needy and deserving juniors or seniors who have a scholastic average of B (3.000) or better. The fund is administered by a committee composed of the deans of the undergraduate degree colleges. Communications concerning the fund may be addressed to The Chairman, The Committee on The Clinton Poston Biddle Memorial Loan Fund, Ohio University.

THE WOMEN'S LEAGUE LOAN AND SERVICE FUND. Since 1913, the Women's League of Ohio University has maintained a loan and service fund for women students. A sum not to exceed \$100 may be borrowed by a student who has spent at least one year on the campus. Collateral or payment guaranteed by a parent is required. Five per cent interest is charged. The dean of women acts as treasurer of the fund.

REGISTRATION AND REGULATIONS

REGISTRATION

The student is responsible for being familiar with registration regulations and for making out an accurate and a satisfactory schedule. Details concerning the registration procedure are given in the schedule of classes obtainable in the registrar's office.

ADVISING AND REGISTRATION. Advising and registration occur during the registration period, on days announced in the university calendar and the schedule of recitations, at the time and place indicated on the permits to register. A student who has been accepted for admission receives his permit by mail with other admission material. A former student obtains a permit to register from the registrar's office by request, either in person or by mail.

STUDENT LOAD. A student's normal load is 15 or 16 semester hours. A student with a high scholastic average may enroll for more than the normal load with the permission of the dean of the college in which he is enrolled according to regulations made by the Executive Committee.

A student on probation is limited to 14 semester hours. Permission to carry more than 14 semester hours is obtained from the dean of the college in which the student is enrolled.

A student who is employed is limited to a twelve-semester-hour load unless his schedule is approved by the dean of men or the dean of women.

CLASSIFICATION OF STUDENTS. A student who enters the university immediately after graduation from high school and any student who has completed less than 25 semester hours of college work registers as a freshman in the University College. A student who plans to follow the elective course registers in the University College as a freshman or for the rank merited by the number of hours of college work he has completed.

A student who has completed the subject requirements of the University College and at least 25 semester hours and who is not on scholastic probation registers as a sophomore in the college from which he expects to receive his degree. Under the same conditions, if he has completed 55 semester hours, he registers as a junior; if he has completed 87 semester hours, as a senior.

A student who has not fulfilled the University College requirements registers in the University College and has rank according to the number of hours completed as stated above.

A student who does not meet the entrance requirements and who is

over twenty-one years of age registers as a special student in the degree college governing the majority of the courses for which he enrolls.

A student who has been granted a degree and desires to enroll for undergraduate credit only, registers as a special student in the degree college governing the majority of the courses for which he enrolls.

A student who has been admitted to the Graduate College registers in the college and indicates the name of the degree he plans to receive. If he does not plan to receive a degree, he registers as a graduate special.

PAYMENT OF REGISTRATION FEES. Registration fees for the semester are payable during registration week; for the summer sessions, during the first two days of the session. Students who do not pay registration fees during registration week or on days designated are not officially enrolled and are excluded from classes beginning the following day. Fees for students who register after the registration days as designated in the university calendar are payable on the day of registration and are subject to the late registration fee.

LATE REGISTRATION. The maximum late registration fee is \$5. Regular students are charged \$1 for late registration with the addition of \$1 for each day late. Those special students who enroll for applied music only, auditors, or graduate students taking work on a conference basis, are charged a late registration fee of \$1 for each week late.

Even though a student may receive permission to register after the regular registration period has closed, he is required to pay the late registration fee. Any student whose late registration is due to serious illness or to death in the immediate family may petition for a refund of the late registration fee.

CHANGE ORDERS. A student who finds it necessary to add or drop a subject requests a change order in the office of the dean of the college in which he is enrolled. If a student is withdrawing from a laboratory course, the instructor's signature or written permission is also required. The change order does not go into effect until it has been presented to, and has been accepted by, the office of the registrar.

After the second week of a semester, the first week of a summer session, or the second day of the post summer session, a change order adding a course must be signed by the instructor of the course.

The grade of W, WP, or WF is recorded for a student who withdraws from a subject by change order. During the first six weeks of a semester, three weeks of the summer session, and one week of the post summer session, the course is marked W. After this time the course is marked WP or WF according to the instructor's report.

The change order fee is \$1. During the first three days of recitation, a student may obtain a change order to withdraw from or enroll in a class without the payment of the fee. A change order obtained after three days of recitation is subject to the change order fee in accordance with regulations administered by the deans of the colleges.

CHANGE OF ADDRESS. If a student changes his home or Athens address after registration, he is expected to notify the registrar in writing at once. Forms are available in the registrar's office. The student is held responsible for any university office communication sent to him at the last address reported to the registrar's office.

CHANGE OF COLLEGE. A student who desires to transfer from one degree college to another should make application for the transfer before or during the registration period. The application is made in the office of the dean of the college in which the student is enrolled. The change does not go into effect until the application, signed by the two deans concerned, is presented to the registrar for approval and the transfer fee, \$1, has been paid. A student is required to fulfill all the requirements of the college and the degree to which he transfers. The transfer, which includes the payment of the transfer fee, must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered the preceding session.

WITHDRAWAL. A student may officially withdraw from the university by obtaining a withdrawal order from the dean of the college in which he is enrolled. The order must be approved by the instructor of any laboratory course in which the student is enrolled and does not become official until it is presented in the registrar's office.

An official withdrawal is not granted to a student who is financially indebted to the university. Refunds for official withdrawals are made according to the regulations given under "Fees and Deposits."

GENERAL REGULATIONS

CREDIT. Credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

GRADING SYSTEM. A, very high; B, high; C, average; D, passing; F, failure; I, incomplete; W, withdrawn; WP, withdrawn passing; WF, withdrawn failing.

I GRADE. The grade I is given to a student who has a satisfactory record in the course but when, for some reason acceptable to the instructor, a portion of the work is not complete. A student is allowed one year in which to complete a course. The final grade must be reported to the registrar's office within one week after the work has been completed.

A student who is not enrolled for a residence course at the university may remove an I grade if satisfactory arrangements can be made with the instructor of the course.

F GRADE. F is recorded for a student who fails to attain the required scholastic standard, at least seventy per cent. Credit for the course can be secured only by re-registration in the university and by repetition of the course with a passing grade or by re-examination with

a grade of "C" according to regulations under "Advanced Standing Examinations." F is also recorded for a course from which a student has not officially withdrawn by change order or withdrawal order, and for a course in which a student has unexcused absences after he has been placed on class probation.

W GRADE. W is indicated for a student who officially withdraws from a course or from the university during the first six weeks of a semester, the first three weeks of the summer session, or the first week of the post summer session.

WP AND WF GRADES. These grades are recorded for withdrawals after the first six weeks of a semester, the first three weeks of the summer session, or the first week of the post summer session. WP indicates that the student is passing in the course at the time of withdrawal; WF, that the student is failing.

POINT SYSTEM. Beginning on September 1, 1941, the point system will be as follows: for each semester hour of credit with the grade of A, a student receives four points; B, three points; C, two points; D, one point; I, no points until the final grade is determined; F and WF, no points. A student's semester average is determined by the grades reported at the close of the semester. WP does not affect a student's scholastic average.

The point system which has been used, and will be used until September 1, 1941, is as follows: for each semester hour of credit with the grade of A, a student receives three points; B, two points; C, one point; D, no points; I, no points until the final grade is determined; F and WF, no points.

CLASS ABSENCES. The members of the faculty are responsible for keeping a record of attendance in each class and submitting lists of absences to the dean of men and the dean of women each week on or before Saturday noon.

Excused Absences. The dean of men or the dean of women may grant a formal statement of excuse to a student who has been absent from class for the following reasons: (a) illness, (b) death in the family, (c) wedding in the immediate family, or (d) trips in connection with activities authorized by the university, the dean of men, or the dean of women. The request for the formal statement of excuse for absences must be made not later than one week after the first class meeting which the student attends following the absence. Excuses for illness must be certified by the director of the Health Service. A student must report to the health clinic not later than one day after returning to classes if he has not been attended by a physician.

The formal statement of excuse, if given to the student, is presented to his instructors by the student and the absence is recorded as an excused absence. In so far as it is possible, the instructor directs the student in his efforts to make up the work missed.

Unexcused Absences. The student alone is responsible for whatever has been missed because of an unexcused absence.

An instructor may place a student who has excessive absences on class probation. A notice of probation is sent to the dean of men or the dean of women who notifies the student that he is on class probation and that one additional unexcused absence means a failure in the course.

Penalties for unexcused absences are under the jurisdiction of each instructor except for unexcused absences before and after a vacation. A penalty of one semester hour is added to the number of hours required for graduation for each day on which an unexcused absence occurs in any class during the two days preceding or following an approved university vacation. The maximum penalty for any one vacation is four semester hours. Whenever the penalty is applied, the dean of men or the dean of women notifies the dean of the college in which the student is enrolled, the registrar, and the student.

FINAL EXAMINATIONS. Final examinations are held during the last week of a session according to a posted schedule. All students are required to take the final examinations according to the posted schedule except candidates for graduation who may be required to take some final examinations during the week immediately preceding the examination week.

ADVANCED STANDING EXAMINATIONS. Application for an advanced standing examination is made with the registrar for any course, listed in the current catalog, in which the student desires credit without taking the course in class. Only a student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$2 is charged for each semester hour.

Any grade received on the examination will become a part of the student's academic record. To receive credit in the course, a student must earn a grade of C or better; however, credit is provisional unless the student has earned 15 semester hours at Ohio University with a scholastic average of 2.000, or until he has done so.

GRADE REPORTS. Grades for students enrolled in the University College are reported at the end of the seventh and the thirteenth weeks to the dean of the University College. The grades are available to the student through his counselor.

Grades for all students are reported to the registrar's office at the end of each session. No grades are recorded for auditors.

A grade report is mailed *immediately* after the close of the session to each student who leaves a stamped self-addressed envelope at the registrar's office in accordance with directions issued during the session. A copy is sent to the dean of the college in which the student is enrolled and to the dean of men or the dean of women. A request for a duplicate grade report must be accompanied by 25 cents.

At midsemester, delinquent reports are mailed to students enrolled in the degree colleges.

PROBATION. The scholastic probation regulations governing the students enrolled in the University College are administered by the dean of the University College. Probation regulations for a student enrolled in a degree college are administered by the registrar according to the following regulations: a student who fails to make a scholastic average of 1.500 at the close of a session is placed on scholastic probation and is limited to a 12, 13, or 14-semester-hour load during the succeeding semester.

While on probation, a student is required to make a scholastic average of 1.670. If he fails to make the required average, he is automatically dropped from the university. A petition for reinstatement is not considered until a student has been out of the university for one semester. If he makes a scholastic average of 2.000, he is removed from probation.

A student who is placed on probation as the result of I grades is removed from probation if the final report of the grades, after the work has been made up, gives him a scholastic average of 1.500.

TRANSCRIPTS. A photostatic copy of a student's record is issued by the office of the registrar as an official transcript. An official transcript is made only at the request of the student. Each student is entitled to one transcript free of charge before graduation and one after graduation. One dollar is charged for each transcript made for a student after the first transcript. The fee must accompany the request. A graduate student who has received a transcript of his undergraduate work after graduation from Ohio University is required to pay \$1 for a transcript issued after graduation from the Graduate College, if his request includes a request for undergraduate credit.

A transcript carries a statement of honorable dismissal except when a student has been dropped from the university because of poor scholarship or nonpayment of fees, or when the dean of men or the dean of women has made a report of unsatisfactory conduct. A student on probation is granted a statement of honorable dismissal subject to his scholastic record.

SCHOLASTIC HONORS AND HONORS DAY. Ohio University honors students with high scholastic attainment at an honors day convocation usually held in April. Undergraduate students who rank in the highest ten per cent of their class are eligible for the honor. The minimum scholastic average must be above B (3.000) average. Students who rank in the highest one per cent of their class are starred on the honors day convocation program. Except for freshmen, the minimum residence requirement is two semesters.

Graduate students are also honored if they rank in the highest ten per cent of the group and have attained at least a B+ (3.500) average

on a minimum of 12 semester hours in residence work. Those who rank in the highest one per cent of the group are starred.

GENERAL GRADUATION REQUIREMENTS

A variety of curricula is offered in the colleges and divisions of the university. The requirements for a degree form a unified and connected curriculum made up of courses offered by the different colleges. The curricula are set up so that a student is not only required to take courses in the college in which he is enrolled, but he is also required to take courses administered by other colleges. No college may exclude a student enrolled in another college from any course for which the student has met the necessary requirements. In four years, a student who has an adequate high school preparation completes the program of the University College and the specific requirements of the college in which he is a candidate for a degree.

APPLICATION. A candidate for graduation must make application for graduation in the registrar's office not later than the dates given in the university calendar. The diploma fee for a degree is \$5; for a three-year diploma, \$2.50. Application for graduation made after the time designated adds a penalty of \$1. Payment of the diploma fee after the stated dates constitutes late application and the penalty of \$1 is added.

All work for a degree must be completed before the time of graduation. If an applicant fails to meet the requirements for graduation, he may reapply after he has fulfilled, or planned to fulfill, his requirements. Reapplication is made in the registrar's office according to the dates given in the university calendar. The reapplication fee is \$1.

SCHOLASTIC AVERAGE. A student is required to have a scholastic average—a point-hour ratio—of 2.000 for graduation. The curricula vary in the number of semester hours required, but all undergraduate curricula require the scholastic average of 2.000. A transfer student is required to have a scholastic average of 2.000 on the credit earned at Ohio University and an average of 2.000 on his entire record.

A student who entered the university before September, 1940, will graduate under the regulation stated in the catalog of his year of admission which, in general, was a minimum of 124 semester hours and 124 scholastic points according to the old point system. The regulation interpreted according to the new point system is 124 semester hours and 248 scholastic points.

PHYSICAL WELFARE. Included in the number of semester hours specified for a degree are four semester hours of required courses in physical welfare or military science.

The regulation has three exceptions, as follows:

(1) A student who is physically unable to fulfill the requirement must file with the registrar an excuse or a substitution obtained from the director of the Division of Physical Welfare.

(2) A student who is 30 years of age or over may receive permission to make a substitution for the requirement from the dean of the college in which he is enrolled. The substitution must be filed with the registrar.

(3) A student who transfers to Ohio University in his senior year with no physical education or physical welfare credit is required to complete only two semester hours at Ohio University, unless the institution from which he transferred requires four semester hours for graduation.

RESIDENCE. The minimum residence requirement for a degree or a diploma is two semesters or the equivalent in summer sessions which should total not fewer than 30 weeks. Saturday and evening class credit may be used to satisfy the residence requirement in combination with one semester or several summer sessions. The number of weeks of residence for part-time students enrolled in Saturday, evening, and day classes is determined by the number of hours of credit allowed for the course. Credit earned in the Extension Division, whether in extension classes or in correspondence study, does not count toward the fulfillment of the residence requirement.

A student must be in residence during the session in which the degree is granted unless he has been granted permission to graduate in absentia.

A student who does not complete the courses for which he is enrolled at the time he becomes a candidate for graduation may complete the work for which he is registered after he leaves the campus, provided satisfactory arrangements can be made with his instructors. This student does not graduate in absentia, and he is required to attend commencement. He may, however, petition for absence from commencement exercises. The petition for absence from commencement requires the approval of the president of the university and the dean of his college, and the payment of a fee of \$5.

IN ABSENTIA. A student may graduate in absentia, with the approval of the dean of the college in which he is enrolled, under the following conditions:

(1) A student who has completed the requirements of a preprofessional course may graduate in absentia by the transfer of credit earned in the first year of an accredited professional school course. A detailed explanation is given under "Preprofessional Curricula."

(2) A student who has completed all the requirements for graduation except four semester hours or less may graduate in absentia, provided he has completed all the requirements for graduation except the requirements that can be completed in a registration of four semester hours. This requirement may be fulfilled by extension credit earned at Ohio University either in group extension or in correspondence study.

Application for graduation should be made at the time designated

in the university calendar when a student is assured that he can complete his work so that an official record or transcript of the credit earned can be presented to the registrar at least a week before the commencement date.

A student graduating in absentia is excused from attending commencement exercises, and is exempt from that part of the residence requirement which states that a student must be in residence during the session in which the degree is granted.

TIME LIMIT. A student first registers for a bachelor's degree when he enrolls in a degree college. This occurs after a student has completed the requirements of the University College, which usually is at the beginning of the sophomore year. When he has enrolled in a college and has registered for a bachelor's degree, he may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the university. A student who does not complete the degree requirements within the usual three years spent in the degree college may be allowed to fulfill the same requirements at a later date, provided he completes them within seven years after his first enrollment in the university. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

A SECOND BACHELOR'S DEGREE. A student who has received a degree and who desires a second bachelor's degree must complete the requirements of the second degree, at least 30 semester hours beyond the first degree requirements with a scholastic average of 2.000, and one semester of residence.

HONORS. A candidate for the bachelor's degree who graduates with high scholastic average is distinguished on the commencement program by the notation "With highest honor" or "With high honor." A student who makes a scholastic average of 3.500 or above graduates "With highest honor." A student who makes a scholastic average of 3.000 or above, and below 3.500, graduates "With high honor." A transfer student is similarly distinguished if his entire record meets the requirements.

COMMENCEMENTS. Degrees and diplomas are granted at the end of each semester and at the end of the summer session. Attendance at commencement is required. Commencement exercises are held in June at the close of the second semester, and in August at the close of the first summer session. Students graduating in January, at the close of the first semester, may participate in all activities of the June commencement by notifying the office of the dean of men. Diplomas are mailed to the students at the close of the first semester and at the close of the post summer session.

A student may be excused from commencement exercises by the permission of the president of the university and the dean of the college

and the payment of \$5. Application for excuse from commencement is made in the office of the dean of the college in which the student is enrolled. The approved application is filed with the registrar who notifies the student to pay the fee. The diploma is mailed to the student soon after commencement.

TEACHING CERTIFICATES. Application for a teaching certificate in Ohio is made in the office of the registrar at the time of application for graduation. The teaching certificate is issued by the State of Ohio Department of Education and qualifies the student to teach the subjects indicated on the certificate.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State of Ohio Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school or special subjects should enroll in the College of Education. The curricula of the College of Education include the requirements of the State of Ohio Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. However, under the certification laws, a student enrolled in another degree college may meet the requirements to teach academic and special subjects by completing the certification requirements and the requirements for the degree. Students who plan to teach in high school should prepare to teach at least three subjects.

The minimum requirements in education (professional requirements) and in academic and special subjects which qualify a student for teaching in high school are as indicated below.

Minimum professional requirements for provisional high school and special subject certificates:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Educational Psychology -----	2-3	Electives in:	
Prereq., Gen. Psych.		History of Education	
Principles of Education -----	2	Tests and Measurements	
School Administration, Organization, or Management -----	2-3	Educational Sociology	
Methods of Teaching -----	2-6	Secondary Education	
(see subject requirement)		Introduction to Teaching	
Student Teaching* -----	3-5	Philosophy of Education	
		Minimum Total -----	17

*A high school subject certificate requires student teaching in the secondary grades, 7-12; special subject certificate, student teaching in the elementary and the secondary grades.

Minimum requirements in the various teaching subjects (academic and special subjects) for a provisional high school certificate:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art -----	24	Languages (prerequisite—2 h.s. units)-----	15
1. Drawing -----	5	(15 semester hours in the language in which certification is desired)	
2. Design, painting, sculpture -----	9	Mathematics (prerequisite—2 h.s. units)-----	15
3. Appreciation and history -----	7	1. College algebra -----	3
4. Methods, including teaching materials, sources, organization, observation -----	3	2. College geometry -----	3
Biological Science (prerequisite—1 h.s. unit)-----	15	3. Trigonometry -----	3
1. Zoology -----	3	4. Pertinent electives or excess in above	6
2. Botany -----	3	Music—Instrumental -----	24
3. Pertinent electives -----	9	(Valid in both elementary and high school.)	
Bookkeeping -----	9	1. Harmony (written, oral, keyboard), sight singing, ear training-----	10
(bookkeeping, accounting, methods)		2. History and appreciation -----	4
Bookkeeping—Social Business -----	20	3. Applied music (orchestral instruments) -----	4
1. Bookkeeping and accounting -----	9	4. Music education, including instrumental methods and conducting-----	6
2. Business law, economic geography, economics, business organization, or pertinent electives -----	11	5. Membership in band or orchestra	
Earth Science (prerequisite—1 h.s. unit)-----	15	Music—Vocal -----	24
1. Geology -----	3	(Valid in both elementary and high school.)	
2. Geography -----	3	1. Harmony (written, oral, keyboard), sight singing, ear training-----	10
3. Pertinent electives or excess in above	9	2. History and appreciation -----	4
English (prerequisite—3 h.s. units)-----	15	3. Applied music (piano or voice, or both) -----	4
1. English composition -----	6	4. Music education, including methods for elementary and high school, observation, participation, conducting--	6
2. English and American poetry-----	3	5. Membership in some choral group	
3. English and American prose-----	3	Physical Education -----	16
4. Pertinent electives or excess in above	3	1. Principles, organization, administration of health and physical education	4
General Science -----	15	2. Theory and practice, including stunts, apparatus, tumbling, swimming, dancing, etc. -----	4
1. Physics -----	3	3. Theory and practice, including athletic coaching in intramural and interscholastic athletics -----	4
2. Chemistry -----	3	4. Health education, including teaching of health and school health problems	4
3. Biology -----	3	Physical Science (prerequisite—1 h.s. unit)-----	15
4. Other science electives or excess in above -----	6	1. Physics -----	6
(General science will also be added to a certificate on the basis of an integrated base course and pertinent electives, totaling 15 sem. hrs.)		2. Chemistry -----	6
History (prerequisite—2 h.s. units) -----	15	3. Pertinent electives or excess in above	3
1. World history -----	3	Salesmanship—Merchandising -----	20
2. American history -----	3	1. Marketing principles -----	3
3. Political science -----	3	2. Salesmanship -----	3
4. Pertinent electives or excess in above	6	3. Advertising, merchandising, retailing, economic geography, or pertinent electives -----	14
Home Economics -----	20	Science (comprehensive major) -----	40
1. Foods and nutrition -----	6	An integrated base course and pertinent electives, or the total distributed over the following: physics, zoology, botany, geology, chemistry, and astronomy.	
2. Textiles and clothing -----	6		
3. Home making, child development, housing, family relationships, consumer education -----	6		
4. Methods -----	2		
Industrial Arts -----	24		
Distribute over the following:			
1. Graphic arts—drawing, planning, printing, photography, duplicating			
2. Woods—furniture construction, carpentry, wood finishing			
3. Metals—sheet metal, art metal, foundry, machine metal work			
4. Applied electricity—communication, transportation, power			
5. Ceramics—clay and concrete			
6. Methods and organization			

TEACHING CERTIFICATES

61

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Social Science (prerequisite—1 h.s. unit)	15	Speech	15
1. Economics	3	Distribute over the following:	
2. Sociology	3	1. Speech fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion	10
3. Industrial geography	3	2. Excess in above or pertinent electives	5
4. Pertinent electives or excess in above	6	Stenography—Typing	20
Social Studies (comprehensive major)	40	1. Shorthand	9
An integrated base course and pertinent electives, or the total distributed over the following: American and modern European history, economics, sociology, political science, principles of geography.		2. Typing	3
		3. Methods	2
		4. Office practice, business English, or pertinent electives	6
		Typing (typing and methods)	5

Any of the above subjects appearing on a certificate issued by the State of Ohio shall be valid for teaching that subject or any subject listed as a required course in the above schedule.

Since September 1, 1939, teaching majors and minors have been designated as teaching subjects. The certificate indicates the number of hours preparation in each subject listed thereon.

Minimum requirements in special subjects for a provisional special certificate:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art	60	management, home hygiene or home nursing, and consumer education)	
1. Drawing	15	Industrial Arts	45
2. Design, painting, sculpture	25	Distribute over the following:	
3. Appreciation and history	10	1. Graphic arts—drawing, planning, printing, photography, duplicating	
4. Methods, teaching materials, sources, organization, observation and student teaching	10	2. Woods—furniture construction, carpentry, wood finishing	
Business Education	45	3. Metals—sheet metal, art metal, foundry, machine metal work	
Minimum requirements:		4. Applied electricity—communication, transportation, power	
Typing	3	5. Ceramics—clay and concrete	
Shorthand	6	6. Methods and organization	
Bookkeeping and accounting	6	Music—Instrumental	53
Methods	2	1. Methods, materials, observation	4
Distribute remainder over the following:		2. Student teaching (Elementary and secondary levels)	3
1. Stenography—Typing		3. Conducting	2
Shorthand, typing, office practice, business English and correspondence, methods in shorthand and typing		4. Instrumental classes	4
2. Bookkeeping—Social Business		5. Theory (ear training, sight singing, dictation, harmony, etc.)	16
Business law, accounting, economic geography, economics, business organization		6. Applied music	16
3. Salesmanship—Merchandising		7. History, appreciation, literature	4
Marketing principles, salesmanship, advertising, retailing, merchandising		8. Ensemble	4
Home Economics	35	Music—Vocal	53
1. Foods and Nutrition	8-15	1. Methods, materials, observation	6
(Includes normal nutrition, meal planning, selection, preparation, and serving)		2. Student teaching (Elementary and secondary levels)	3
2. Clothing	8-15	3. Conducting	2
(Includes selection, construction, textiles, and art principles)		4. Class voice	2
3. General	12-19	5. Theory (ear training, sight singing, dictation, harmony, etc.)	16
(Includes child development, family relationships or euthenics, housing, home furnishings, equipment, home		6. Applied music	16
		7. History, appreciation, literature	4
		8. Ensemble	4

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Physical Education -----	40	4. Health education -----	10
1. Principles, organization, and administration of physical and health education -----	4	(The teaching of health and school health problems; hygiene including personal health, public health, child hygiene, sanitation, immunology, and allied subjects)	
2. Theory and practice of physical education -----	12	5. Individual corrective gymnastics and normal diagnosis -----	2
(Games of low organization, elementary physical education, play and recreation, first aid, activities other than athletics such as: games, stunts, gymnastics, apparatus, dancing, tumbling, swimming)		6. Human anatomy and physiology -----	6
3. Theory and practice of physical education -----	6	Speech -----	40
(Athletic coaching, including inter-scholastic and intramural sports such as: (men) football, soccer, speedball, basketball, baseball, tennis, track; (women) soccer, volleyball, hockey, basketball, baseball, tennis, track)		1. Speech fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion (including debates, extempore speaking, panel discussion, the oration, the persuasive speech, and the various original speech forms), special methods in teaching speech -----	34
		2. Other speech courses or excess in above -----	6

The above subjects may also be added to the provisional high school certificate by completing the minimum requirements indicated for a high school certificate.

Minimum requirements for a provisional vocational certificate:

Courses offered by Ohio University in home economics outlined under "The College of Education" or "The College of Applied Science" qualify a student for a provisional vocational certificate in the subject.

The information given above is found on the application form issued by the department of education and in the manual, "Laws and Regulations Governing the Certification of Teachers in Ohio." Questions concerning certification should be referred to the dean of the College of Education or to the registrar.

COLLEGES AND DIVISIONS

ORGANIZATION

Ohio University was founded and conducted during the early years of its existence as a college devoted to the arts and sciences. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and few changes in policy. By the turn of the century, however, a growing need for teachers called for a professional educational program. In 1902, Ellis Hall was completed and the university was expanded to include a college for the training of teachers. Meanwhile, the general tendency for higher education in many fields had been definitely manifesting itself in increased enrollment and the demand for a broader curriculum. This was particularly noticed in the fields of electrical engineering and commerce which had been introduced in the College of Arts as early as 1890 and 1893 without perceptible effect upon the organization of the university.

In the years of constant growth that followed, the university at all times endeavored to keep pace with the growing need, until it became evident that the traditional division into a College of Liberal Arts and a College of Education no longer represented the curricula offered in the university. In the autumn of 1935, the University College was established as an aid to freshmen in making the difficult adjustment from high school to college. Further reorganization has followed in accord with the enlarged offerings until at present the university comprises the following:

THE UNIVERSITY COLLEGE

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF EDUCATION

THE COLLEGE OF COMMERCE

THE COLLEGE OF APPLIED SCIENCE

THE COLLEGE OF FINE ARTS

THE GRADUATE COLLEGE

THE DIVISION OF PHYSICAL WELFARE

THE DIVISION OF MILITARY SCIENCE AND TACTICS

THE UNIVERSITY EXTENSION DIVISION

THE SUMMER SESSIONS

THE UNIVERSITY COLLEGE

The University College is organized primarily for students regularly matriculating as freshmen in Ohio University. It was established in 1935 with a view to helping the beginning students make their adjustments at the university more effectively and easily. The college continues the education of the students in certain broad fields and, in addition, offers them opportunity to study in several professional fields of their choice. Its program of course requirements covers just the first year. For this purpose, the program is determined in part by those fields which the student studied in the secondary school. The first year in the university and the four years of the high school become, therefore, a five-year unit. This plan is in accordance with the modern trend in education to integrate more closely the high school education and experience with that on more advanced levels afforded in the university. This first year, together with the three years in one of the degree colleges of the university, constitute the four years required for the baccalaureate degree.

Ohio University emphasizes one important feature which has characterized similar administrative divisions set up for first-year students in other universities. This is the arrangement for faculty counselors whereby every beginning student receives the personal advice and friendly counsel of a member of the faculty. This counseling program is of paramount importance to the successful achievement of the objectives of the college.

Experience has shown that the counseling program and the foundation of general education in the first year have been of marked benefit. First-year students are enabled thereby to adjust more easily, and otherwise to find their places as members of the university community. Also, they make their choices of professional courses for the three remaining years of university study with more purpose and with better knowledge of themselves and the requirements.

THE PROGRAM. The course requirements of the college are stated as follows in terms of the five-year unit mentioned. Thus, in the four years of the secondary school and the first year in the university, a student should have completed:

- Five years of English
- Three years of social sciences
- Three years of laboratory sciences
- Two years of mathematics
- Two years of foreign languages

In the college, one year of freshman mathematics, one year of a laboratory science, and one year of some one foreign language are each regarded as the equivalent of two years of high school study and, there-

fore, as two years in the above outline. Credit in the requirements of the college is not given for less than one year of study in foreign languages and laboratory sciences. Students who enter the university with three years of English satisfy the five-year requirement by completing the year course in English composition. Students excused from the first semester of English composition by virtue of their having scored high in the English placement test, fulfill the University College requirement by completing the second semester only of the year course.

A year of English composition in the University College is required of all beginning students. Those students who have completed in the secondary school the other requirements mentioned, must select any two of the four other fields for study. A year of study in each is required. A year of physical welfare or military science and a one-semester course in college problems are required in the University College.

After having registered for courses which will complete the college requirements, the student may select any courses for which he can satisfy the prerequisites. His total semester-hour load must not exceed 16 hours except by special permission. A student is permitted to carry a total of six semester hours of professional work, but no more than three semester hours in any one professional field.

REGISTRATION. All beginning students are assigned a definite time and place for meeting with their counselors to arrange their schedules of classes for the semester. Registration is completed on the days indicated in the "University Calendar." Each beginning student is sent a permit to register on which is indicated the hour when he must appear to complete his registration.

All directions for registration are contained in the freshman booklet which is mailed to each first-year student in August or September.

ADMISSION TO DEGREE COLLEGE. When the requirements of the University College have been fulfilled, a student is released to a degree college for the remainder of his course. In addition to the subject requirements mentioned, a student must have completed 25 semester hours with half as many scholastic points as hours carried. Students in the University College who are on scholastic probation are not released from the college until the probation is removed.

Students, other than first-year students, registered in the University College pursue those studies in the degree colleges of their choice for which they are qualified, while completing subject requirements or scholastic requirements in the University College.

In the degree colleges, the curricula are planned so that the requirements for a baccalaureate degree may be completed in three additional years.

ELECTIVE STUDY. The University College also offers opportunity for elective study to students who do not expect to complete the requirements for a degree and who are planning to remain in the university

only one or two years. A wide choice of courses and very few requirements characterize the registration privileges of such students.

The requirements for admission to elective study are the same as for admission to the University College. However, a student under 21 years of age must also present a written statement of approval from his parent or guardian with his application for admission. Students enrolled for elective study may begin work in the curricula leading toward degrees at any time by first meeting the usual University College requirements. Students enrolled for elective study are limited to the completion of 64 semester hours. When this amount has been completed, the student is expected to begin work toward a baccalaureate degree.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims to acquaint the student with the fields of knowledge which constitute the fundamentals of a well-rounded education. It also aims to give the student opportunity to explore subject matter fields with a view to discovering his major interest and special aptitudes. At the same time, it seeks to provide such a degree of specialization in the last two years as will fit the student for advanced work in his major field or for the requirements of a vocation. The breadth of its educational program enables it to be a service college to the entire university. Students from the other colleges are admitted to its courses on the same basis as are students registered in the College of Arts and Sciences.

As an undergraduate degree college with deliberate emphasis on breadth of training, the College of Arts and Sciences offers two degrees, the Bachelor of Arts and the Bachelor of Science. The requirements for both degrees call for a considerable distribution of studies; yet they also permit of specialization. Indeed, they require sufficient concentration in major and minor fields to insure some degree of mastery in a particular field. In general, the distinction between the curricula for the two degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literature, and the social sciences; whereas, for the Bachelor of Science degree, the chief emphasis is placed upon the natural sciences and mathematics.

FIELDS OF INSTRUCTION. The fields of instruction (in some cases subjects only are included) are grouped as follows:

1. **Language, Literature, Fine Arts, and Journalism Group:**

Archaeology, English, French, German, Greek, Italian, Latin, Portuguese, and Spanish; dramatic art, music, painting and allied arts; journalism

2. **Natural Science and Related Science Group:**

Biological sciences: botany, Psych. 109, 201, 207, zoology
Physical sciences: chemistry, geology, Math. 14 (astronomy),
physics
Related sciences: agriculture, engineering, home economics,
mathematics (not included above), industrial arts

3. Social Science Group:

Commerce, economics, education, geography, government, history, personal relations, philosophy, physical welfare, psychology (not included above), sociology

BACHELOR OF ARTS

The general requirements for the degree of Bachelor of Arts are a minimum of 124 semester hours with a point-hour ratio of 2.000 in all hours attempted. The total hours include the requirements of the University College, four semester hours of physical welfare or military science, and three years of work which comprise approximately 94 semester hours under the direction of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 18 semester hours in courses numbered 200 to 299.

The specific requirements for the degree are: Hours

1. English: ----- 12

Eng. 1-2 or 3-4—English Composition
Eng. 101, 102—Sophomore English Literature

2. Foreign Language: ----- 6-20

- (1) Students who enter with four or more years of one foreign language take a language for one year. Students who enter with two years in each of two languages may continue in either language for one year, except that those who have had Latin may change to Greek.
- (2) Students who enter with three years in foreign language continue one language for one and one-half years; if they wish to change to another language, they take two years.
- (3) Students who enter with two years in foreign language take two years of a language. Students may change to a new language but must have at least two years in any one language, either in high school or in college, or in both.
- (4) Students who enter with less than two years in foreign language take three years, with at least two years in one language.

3. Natural Science and Mathematics: 6 semester hours shall be in one subject ----- 12

Biological sciences: botany, *Psych. 109, 201, and 207, zoology
Physical sciences: chemistry, geology, physics
Mathematics

- (1) Students who enter with one year in biological science** and one year in physical science may fulfill the requirement in natural science, mathematics, or in a combination of them.
- (2) Students who enter with one year in biological science** shall include one year of physical laboratory science in the 12 semester hours.
- (3) Students who enter with one year in chemistry or one year in physics, or both, shall include one year of biological laboratory science in the 12 semester hours.
- (4) Students who enter with neither biological science nor physical science shall include one year of a laboratory science in the 12 semester hours.

4. Social Science: 6 semester hours shall be in one subject and 6 semester hours shall be in a course or in courses numbered 100 or above ----- 14

Commerce, economics, education, geography, government, history, philosophy, physical welfare (except the 4 semester hours in the general requirements), *psychology (except Psych. 109, 201, and 207), sociology

*A student may not elect to fulfill the natural science requirement and the social science requirement in the same subject or field.
**High school courses in botany, general biology, or zoology fulfill this requirement, but courses in agriculture, general science, hygiene, nature study, or physiology do not.

5. The Group and Subject Major: The major requirement includes 36 semester hours in a group with not fewer than 20 semester hours in a single field or subject unless otherwise indicated in the major requirements given in the "Courses of Instruction." English Composition, the beginning or first year of a foreign language, Math. 1 and 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.
6. The Group and Subject Minor: The minor requirement includes 18 semester hours in another group with not fewer than 12 semester hours in a single field or subject. English Composition, the beginning or first year of a foreign language, Math. 1 and 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.

BACHELOR OF SCIENCE

The general requirements for the degree of Bachelor of Science are a minimum of 124 semester hours with a point-hour ratio of 2.000 in all hours attempted. The total hours include the requirements of the University College, four semester hours of physical welfare or military science, and three years of work which comprise approximately 94 semester hours under the direction of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 18 semester hours in courses numbered 200 to 299. Not more than 50 semester hours in any department are counted toward the degree requirements.

The specific requirements for the degree are:	Hours
1. English: ----- Eng. 1-2 or 3-4 (English Composition) and 3 semester hours of literature	9
2. Foreign Language: French or German preferred----- (1) Students who enter with four years in one foreign language or two years in each of two foreign languages are excused from this requirement. (2) Students who enter with one year of foreign language take one and one-half years of a foreign language; those who enter with no foreign language take two years of a foreign language.	0-16
3. Natural Science and Mathematics ----- The requirement includes a major in one of the departments (botany, chemistry, geology, mathematics, physics, zoology), and not fewer than 6 semester hours in each of two departments other than the major department. See "Courses of Instruction" for the major requirements.	54
4. Social Science: 6 semester hours shall be in one subject and 6 semester hours shall be in a course or in courses numbered 100 or above----- Commerce, economics, education, geography, government, history, personal relations, philosophy, physical welfare (except the 4 semester hours in the general requirements), psychology (except Psych. 109, 201, and 207), sociology	14

PRE-PROFESSIONAL CURRICULA

PRE-MEDICAL CURRICULUM. The minimum requirement for admission to a medical college is the completion of 60 semester hours of college work which include: general inorganic chemistry, organic chemistry, physics, general biology or zoology, anatomy, English, in most cases embryology, and a reading knowledge of either French or German, the latter preferred. Most medical colleges require additional courses in the sciences and also emphasize a broad acquaintance with fields other than science. A number of medical schools give preference to holders of a bachelor's degree. Some medical colleges specify an arts college degree for admission. It is rarely possible to prepare for medical college in less than three years. Whenever possible, students should complete four years in the College of Arts and Sciences and obtain a degree.

Students who are unable to devote four years toward a degree in the College of Arts and Sciences may obtain the degree of Bachelor of Arts or Bachelor of Science after completing a full year's work in an accredited school of medicine with no failures or conditions, provided they have previously completed 94 semester hours (three years) with a point-hour ratio of 2.000 in all hours attempted, and have satisfied the group requirements of the College of Arts and Sciences. The following sequence of courses is recommended:

Freshman Year

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—General Zoology	6
Fr. or Ger. 1-2—Beginning	8	Electives‡	

Sophomore Year

Chem. 115-116—Organic Chemistry	6	Gk. 127—Greek Words in English	2
Chem. 119—Organic Preparations	2	Zool. 107—Principles of Heredity	3
Eng. 101, 102—Sophomore Literature	6	Zool. 112—Comparative Vertebrate Anatomy	4
Fr. or Ger. 101-102—Intermediate	8		
Electives*			

Junior Year

Chem. 109—Quantitative Analysis	4	Zool. 216—Animal Parasites	4
Phys. 5, 6—Introduction to Physics	8	Electives*	

Senior Year

Zool. 201—Mammalian Anatomy†	4	Zool. 206—Behavior and the Physiology of the Nervous System	4
Zool. 202—Vertebrate Embryology†	4		
Zool. 205—Principles of Physiology	4	Zool. 211—General Bacteriology	4
Electives*			

Suggested electives: courses in logic, philosophy, government, economics, history, and English literature

PRE-DENTAL CURRICULUM. The minimum requirement for admission to dental school is the completion of at least 60 semester hours of college work which must include: general inorganic chemistry, organic chemistry, physics, general biology or zoology, and English. Some dental col-

‡See requirements for University College.

*See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

†Students leaving at end of third year should elect this in the third year.

leges recommend additional courses in zoology. A broad training in courses other than natural science is urged. The following sequence of courses is recommended:

Freshman Year

The University College program should include:

Hours		Hours	
Chem. 1-2 or 3-4—General Chemistry ---	8	Zool. 3-4—General Zoology -----	6
Fr. or Ger. 1-2—Beginning -----	8	Electives‡	

Sophomore Year

Chem. 113, 117—Organic Chemistry ---	5	Zool. 112—Comparative Vertebrate Anatomy -----	4
Eng. 101, 102—Sophomore Literature ---	6	Electives*	
Fr. or Ger. 101-102—Intermediate -----	8		
Phys. 5, 6—Introduction to Physics-----	8		

Junior Year

Chem. 105—Qualitative Analysis -----	3	Zool. 205—Principles of Physiology-----	4
Zool. 107—Principles of Heredity -----	3	Zool. 211—General Bacteriology -----	4
Zool. 125—Elements of Physiology -----	4	Electives*	

Suggested electives: courses in logic, philosophy, government, economics, history, and English literature.

NURSING CURRICULUM. Students who wish to obtain a college degree and also become registered nurses can fulfill the requirements by completing a three-year curriculum at Ohio University, 94 semester hours with a point-hour ratio of 2.200 in all hours attempted, and two years and four months of training at Grant Hospital School for Nurses, Columbus, Ohio.

A bulletin of the requirements for nurses will be furnished upon request to the Director of Nursing, Grant Hospital. Applicants must be fitted for nursing both in physique and in personality. The State Board requires that prospective nurses must pass tests in English and arithmetic, and that they must also take a mental ability test. These tests are given by the director of nursing, and must be arranged for not later than March 1 of the freshman year through the chairman of the department of zoology. A physical examination is given in May of the junior year. Application for it must be made to the Director of Nursing, Grant Hospital, not later than May 1. A transcript of credits earned at Ohio University must be sent to the training school at the end of the junior year. The training school year begins in September.

OHIO UNIVERSITY

First Year

The University College program should include:

Hours		Hours	
Chem. 1-2 or 3-4—General Chemistry ---	8	Psych. 1—General Psychology -----	3
French, Spanish, or German-----	6-8	Zool. 3-4—General Zoology -----	6
Algebra must be taken either in high school or college.		Electives‡	

Second Year

Chem. 113, 117—Organic Chemistry ---	5	Psych. 5—Educational Psychology -----	3
Eng. 101, 102—Sophomore Literature ---	6	Soc. 101—Principles of Sociology -----	3
H. Ec. 21—Foods and Nutrition-----	3	Zool. 107—Principles of Heredity -----	3
Phil. 103 or approved electives* -----	3	Zool. 125—Elements of Physiology -----	4
Phil. 111—Business and Prof. Ethics---	2		

‡See requirements for University College.

*See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

Third Year

	Hours		Hours
H. Ec. 225—Dietetics	3	Zool. 211—General Bacteriology	4
Psych. 212—Abnormal Psychology and Mental Hygiene	3	Zool. 212—Pathogenic Bacteriology	4
Zool. 115—Elements of Anatomy	3	Electives*	11
Zool. 209—Biological Chemistry	4		

GRANT HOSPITAL SCHOOL OF NURSING

Fourth Year

Anatomy and Physiology	4	History of Nursing	2
Principles and Practice of Nursing (including bandaging, charting, mas- sage, and case study)	8	Professional Adjustments I	1
Diet in Disease	1	Pharmacology	3
		Introduction to Medical Science	2
		Personal Hygiene	1

Fifth Year

(and four additional months)

Surgical Diseases and Surgical Nursing and Surgical Specialties I	3	Medical Diseases and Nursing and Medical Specialties I	3
Obstetrical Nursing	2	Medical Specialties II	2
Nursing of Children	2	Surgical Specialties II	2
		Professional Adjustments II	2
		Nursing and Health Service in the Family	2

Suggested electives: courses in government, history, philosophy, and English literature; and, if possible, H. Ec. 273, 241. Two years of history in high school or college are required.

MEDICAL TECHNOLOGY CURRICULUM. A course in medical technology trains students in the laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists must have had university training in appropriate subjects as a basis for practical hospital training. Students who satisfactorily complete the curriculum receive the degree of Bachelor of Science. At least three and one-half years are devoted to classroom and laboratory instruction. Subject to the capacity of facilities, this is followed by nine months practical hospital experience in Mount Carmel Hospital, Columbus, Ohio.

Freshman Year

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—General Zoology	6
Fr. or Ger. 1-2—Beginning	8	Electives‡	

Sophomore Year

Chem. 113, 117—Organic Chemistry	5	Zool. 115—Elements of Anatomy	3
Fr. or Ger. 101-102—Intermediate	8	Zool. 128—Histology	4
Zool. 107—Principles of Heredity	3	Electives†	

Junior Year

Phys. 5, 6—Introduction to Physics	8	Zool. 212—Pathogenic Bacteriology	4
Zool. 125—Elements of Physiology	4	Zool. 216—Animal Parasites	4
Zool. 209—Biological Chemistry	4	Electives†	
Zool. 211—General Bacteriology	4		

Senior Year

Chem. 109—Quantitative Analysis	4	Electives†	5
Zool. 133—Animal Microtechnic	3	Hospital residence	16
Zool. 145—Clinical Technic	4		

*See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

‡See requirements for University College.

†See requirements for the Bachelor of Science degree.

PREPARATION FOR SECRETARIAL MEDICAL TECHNOLOGY. The foregoing curriculum can be modified to include some training in secretarial work and thus qualify the student to perform the duties of a secretary in addition to those of a medical technologist. Students who wish to make this modification should consult with the department adviser.

PREPARATION FOR FEDERAL AND STATE BIOLOGICAL SERVICES. Botanical Services: Students interested in forestry, plant pathology, plant industries service, or economic botany should refer to the major requirements given in the courses of instruction of the department of botany and should consult with the chairman of the department.

Zoological Services: Students interested in game and wild life management, insect control, the biological survey, national park service, fisheries, or aquatic biology should refer to the major requirements given in the courses of instruction of the department of zoology and should consult with the chairman of the department.

PREPARATION FOR TEACHERS. A student who desires to receive the degree of Bachelor of Arts or Bachelor of Science may qualify for a certificate to teach in the secondary schools by completing the requirements for certification. See the summary of courses required by the State of Ohio Department of Education given under the heading "Teaching Certificates."

PREPARATION FOR LAWYERS. A student who desires to prepare for the profession of law may complete the requirements of the freshman, sophomore, and junior years (94 semester hours with a point-hour ratio of 2.000 in all hours attempted), enroll in an accredited law school, complete a full year's work, and receive the degree of Bachelor of Arts. No curriculum is prescribed. Students are advised to take work in social science with emphasis on government, history, economics, philosophy, or sociology.

PREPARATION FOR PROFESSIONAL SOCIAL WORK. To a selected group of qualified students the department of sociology is offering training for social work on pre-professional and professional levels of sufficient scope and intensity to meet the requirements for certain staff positions in public or private agencies. By careful grouping of basic courses in sociology, psychology, economics, political science, home economics, biology, and health the foundation may be laid for the theoretical study, field practice, and internship training in social work courses proper. This professional training is intended to serve as a broad foundation and adequate preparation for general social work; however, the advanced student may specialize somewhat in accordance with his interest in family welfare services, child welfare services, juvenile court services, or rural social services. Students interested in preparation for social work should consult the chairman of the department for details of the training program and for admission requirements.

PREPARATION FOR OTHER PROFESSIONS. Special curricula are not prescribed for students who are preparing for public administration, governmental foreign service, or the ministry. A broad cultural education with emphasis on the student's interests is recommended as the preparation for these vocational fields. Those who plan to enter public administration or governmental foreign service should take work in social science with emphasis upon government, history, economics, and sociology. Students planning to enter governmental foreign service should include a knowledge of one or more of the modern foreign languages. The preparation for theology should include emphasis on English literature; the social sciences, especially philosophy and psychology; and Latin or Greek, especially Greek.

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. Its aim is a fully rounded preparation for the profession of teaching and its curricula are intended to prepare students for teaching in elementary schools, high schools, and colleges, and for the positions of school administrators, supervisors, and supervising critics. Its program of academic and professional study, including laboratory practice, is built about a fundamental belief in standards of the highest type designed to prepare teachers who will have adequate knowledge of their special fields, who will understand professional theory and how to apply it, and who will have attained a degree of skill which will enable them to go into the profession under circumstances favorable to immediate success, even as beginning teachers.

The degree of Bachelor of Science in Education is granted upon the completion of the general graduation requirements and one of the curricula covering courses of four years with specialization in elementary education, in any of the academic fields for teaching in high school, or in the special subjects of art, industrial arts, home economics, physical welfare, commerce, or music. The curricula for specialization in the teaching of high school subjects and special subjects include the general requirements and the specialization requirements for the major. In addition, the student is required to complete at least one minor in another academic or special subject with from 15 to 24 semester hours, including the requirements for certification. All specified requirements of the State of Ohio Department of Education must be met not only in the professional subjects, which are included in the general requirements, but also in the majors and minors. Subjects completed in the University College (freshman year) may in part satisfy the requirements.

Candidates for the degree complete a minimum of 124 semester hours with a point-hour ratio of 2.000.

BACHELOR OF SCIENCE IN EDUCATION*

The following are general requirements for all students who plan to specialize in the teaching of special subjects and high school academic subjects:

	Hours
1. P. R. 1—College Problems -----	1
2. Education and Psychology -----	26
Psych. 1—General Psychology -----	3
Psych. 5—Educational Psychology -----	3
Ed. 130—Principles of Secondary Education -----	3
Ed. 131—Educational Tests and Measurements (not required of students who have majors in special subjects)-----	2
Ed. 230—High School Administration or Ed. 240—School Administration -----	3
Ed. 180 or 182—Observation and Participation -----	3
Ed. 181 or 183—Student Teaching -----	4
Ed.—Teaching Techniques -----	See Major
Elect from the following: -----	5
Ed. 232—High School Curriculum -----	2
Ed. 248—Vocational Guidance -----	2
Ed. 250, 251, 252 or 259—History of Education -----	3-2
Ed. 255—Philosophy of Education -----	3
Ed. 281—Educational Statistics -----	3
Psych. 203—Mental Measurements or Psych. 210—Mental Hygiene or Soc. 107—Educational Sociology -----	3
3. English -----	9-12‡
Eng. 1-2 or 3-4—English Composition -----	6
Eng. 102, 111, or 112 -----	3-6‡
4. Foreign Language -----	0-8
Two units of high school credit or one year of college credit.	
5. Painting -----	2-1
P.A.A. 125—The Arts in Every Day Life or Mus. 7—Music Appreciation	
6. Physical Welfare (military science† may be substituted for 2 semester hours) -----	4
7. Science and Mathematics -----	6-10
Biology, botany, chemistry, mathematics, physics, zoology, geology	
8. Social Studies -----	12
Economics, geography, government, history, philosophy, sociology	

Additional or specialization requirements for a major in special subjects or in academic high school subjects:

Agriculture

Select 27 semester hours in agriculture:

Hours	Hours
Agr. 1—General Agriculture -----	3
Agr. 3, 4—Forestry -----	4
Agr. 102—Vegetable Gardening -----	3
Agr. 103—Fruit Growing -----	3
Agr. 104—Small Fruits -----	3
Agr. 109—Landscape Gardening -----	3
Agr. 111—Rural Economics -----	3
Agr. 116—Field Crops -----	3
Agr. 121—Types and Breeds of Farm Animals -----	3
Agr. 124—General Dairying -----	3
Agr. 127—Types, Breeds, and Manage- ment of Poultry -----	3
Agr. 131, 132—Floriculture and Green- house Management -----	4
Agr. 135—Farm Management -----	3
Agr. 141 or 142—Evolution and Heredity	3
Additional requirements: Bot. 1, 2—Freshman Botany or Bot. 101, 102—General Botany -----	6
Chem. 1-2 or 3-4—General Chemistry ---	8
Ed. 168a—Teaching of Agriculture-----	3

*Requests for information relating to teacher preparation and certification of teachers should be addressed to the Dean, College of Education, Ohio University.

‡Required if no foreign language is taken.

†Students who elect military science must complete 2 semester hours of physical welfare in addition to the 4 semester hours of military science.

Biology (see Botany and Zoology)

		Hours			Hours
Bot. 1, 2—Freshman Botany or			Bot. 205—Plant Physiology	-----	3
Bot. 101, 102—General Botany	-----	6	Bot. 221—Plant Pathology	-----	3
Bot. 107—Local Flora	-----	3	Bot.—Approved electives	-----	10
Bot. 203—Plant Ecology	-----	3			
Additional requirements:					
Ed. 168b—Teaching of Botany or			Zool. 3-4—General Zoology	-----	6
Ed. 168g—Teaching of General Science	-----	2			

Chemistry

Chem. 1-2 or 3-4—General Chemistry	--	8	Chem.—Approved electives	-----	12-14
Chem. 115-116—Organic Chemistry	----	6			
Additional requirements:					
Ed. 168s—Teaching of Chemistry and Laboratory Practice	-----	2-4	Phys. 5, 6—Introduction to Physics or		
Math. 1—Elementary Algebra or			Phys. 113, 114—General Physics	-----	8
Math. 5—Freshman Mathematics	-----	4-5			

Commerce — Bookkeeping—Social Business

Acct. 75-76—Elementary Accounting	--	6	Ec. 15—Economic Geography	-----	3
Acct. 125—Intermediate Accounting	----	3	Ec. 101-102—Principles of Economics	-----	6
Acct. 156, 175, 195, 206, or 224—Electives	----	6	Fin. 101—Money and Credit	-----	3
Bus. L. 155-156—Business Law	-----	6	Fin. 121—Business Finance	-----	3
Ec. 3—Contemporary Economic Society or			Sec. St. 180—Operation of Office Machinery	-----	2
Mgt. 211—Industrial Management or			Com.—Approved electives	-----	3
Mgt. 271—Business Policy or					
Ec. 212—Administration of Personnel	----	3			
Additional Requirement:					
Ed. 161b—Teaching of Bookkeeping	-----	2			

Commerce — Business Education*

Acct. 75-76—Elementary Accounting	--	6	Fin. 101—Money and Credit	-----	3
Acct. 125—Intermediate Accounting	----	3	Sec. St. 15-16—Typewriting	-----	4
Acct. 156, 175, 195, 206, or 224—Elective	----	3	Sec. St. 31-32—Shorthand	-----	6
Bus. L. 155-156—Business Law	-----	6	Sec. St. 120—Business Letter Writing	-----	3
Ec. 3—Contemporary Economic Society or			Sec. St. 151—Elem. Dictation and Transcription	-----	3
Mgt. 211—Industrial Management or			Sec. St. 152—Inter. Dictation and Transcription	-----	3
Mgt. 271—Business Policy or			Sec. St. 180—Operation of Office Machinery	-----	2
Ec. 212—Administration of Personnel	----	3			
Ec. 15—Economic Geography	-----	3			
Additional Requirement:					
Ed. 161a, 161b, 161s, 161t—Teaching Techniques	-----	2			

Commerce — Economics

Ec. 15—Economic Geography	-----	3	Ec.—Approved electives	-----	13
Ec. 101-102—Principles of Economics	-----	6			
Additional requirements:					
Ed. 169s—Teaching of Social Science	-----	2	Soc. 103—Social Change and Social Problems	-----	3
Soc. 101—Principles of Sociology	-----	3			

Commerce — Salesmanship—Merchandising

Acct. 75-76—Elementary Accounting or			Mkt. 155—Marketing Principles	-----	3
Acct. 101-102—Secretarial Accounting	----	6	Mkt. 171—Principles of Personal Selling	-----	2
Advt. 155—Advertising Principles	----	3	Mkt. 201—Retailing	-----	3
Advt. 186—Retail Advertising	-----	3	Mkt. 205—Principles of Fashion Merchandising	-----	3
Ec. 3—Contemporary Economic Society	-----	3	Mkt. 257—Retail Selling Problems	-----	2
Ec. 101-102—Principles of Economics	-----	6	Mkt. 260—Store Practice	-----	5
Additional requirements:					
Ed. 161a—Teaching of Business Subjects	-----	2	Psych. 4—Business Psychology or		
H. Ec. 256—Economics of Consumption	----	3	Psych. 6—Psychology of Advertising and Selling	-----	3
P. A. A. 125—The Arts in Everyday Life or					
P. A. A. 147—Principles of the Space Arts in Advertising	-----	2			

*Majors are required to satisfy competency tests administered by the College of Commerce.

Commerce — Stenography—Typing*

Hours		Hours	
Bus. L. 159—Business Law	3	Sec. St. 151—Elem. Dictation and Transcription	3
Ec. 15—Economic Geography	3	Sec. St. 152—Inter. Dictation and Transcription	3
Fin. 101—Money and Credit	3	Sec. St. 171, 172—Secretarial Theory	4
Sec. St. 15-16—Typewriting	4	Sec. St. 175—Secretarial Practice	4
Sec. St. 31-32—Shorthand	6	Sec. St. 185—Office Management	2
Sec. St. 120—Business Letter Writing	3	Com.—Approved Electives	6
Additional requirements:			
Ed. 161s—Teaching of Shorthand	2	Ed. 161t—Teaching of Typewriting	2

Dramatic Art — Dramatic Production

Dram. A. 1—Speech Survey	1	Dram. A. 149—Principles of Acting	3
Dram. A. 15—Voice and Diction†	2	Dram. A. 150—Advanced Acting Technique	3
Dram. A. 21—Elements of Stage Scenery	3	Dram. A. 250—Play Direction	3
Dram. A. 23—Elements of Stage Lighting	3	Dram. A.—Electives	2
Dram. A. 147—Theatre Workshop	1	Additional requirements:	
Ed. 162h—Teaching of High School Dramatics	2	Eng. 1-2, 3-4—English Composition	6
Ed. 162x—Teaching of Speech in the High School or		Eng.—English or American literature	9
Ed. 162s—Teaching of Speech in the Grades	2		

Dramatic Art — Speech

Dram. A. 1—Speech Survey	1	Dram. A. 117—Debate Practice	3
Dram. A. 3—Public Speaking	2	Dram. A. 195—Introduction to Speech Pathology	3
Dram. A. 15—Voice and Diction	2	Dram. A. 212—Phonetics	3
Dram. A. 25—Prin. of Argumentation	2	Dram. A.—Electives	4
Dram. A. 34—Oral Interpretation of Literature	2	Additional requirements:	
Dram. A. 110—Parliamentary Law	1	Ed. 162h—Teaching of High School Dramatics	2
Ed. 162h—Teaching of High School Dramatics	2	Ed. 162s—Teaching of Speech in the Grades or	
Ed. 162x—Teaching of Speech in the High School	2	Ed. 162x—Teaching of Speech in the High School	2

Dramatic Art — (Speech and Dramatic Art—Comprehensive Major)

Dram. A. 1—Speech Survey	1	Dram. A. 147—Theatre Workshop	2
Dram. A. 3—Public Speaking	2	Dram. A. 149—Principles of Acting	3
Dram. A. 15—Voice and Diction	2	Dram. A. 179—History of the Visual Theatre	3
Dram. A. 21—Elements of Stage Scenery	3	Dram. A. 195—Introduction to Speech Pathology	3
Dram. A. 23—Elements of Stage Lighting	3	Dram. A. 202—Adv. Oral Interpretation	2
Dram. A. 25—Prin. of Argumentation	2	Dram. A. 212—Phonetics	3
Dram. A. 34—Oral Interpretation of Literature	2	Dram. A. 250—Play Direction	3
Dram. A. 110—Parliamentary Law	1	Dram. A.—Electives	2
Additional requirements:			
Ed. 162h—Teaching of High School Dramatics	2	Ed. 162s—Teaching of Speech in the Grades or	
		Ed. 162x—Teaching of Speech in the High School	2

English

Eng. 1-2, or 3-4—English Composition ..	6	Eng.—Approved electives	16
Eng. 102, 111, 112, or 130	6		
Additional requirements:			
Ed. 143—School Library Administration	3	Ed. 164a, 164b—Teaching of English in the Senior H.S.	4

*Majors are required to satisfy competency tests administered by the College of Commerce.
 †May be omitted upon successful completion of proficiency examination.

French

	Hours		Hours
Fr. 1-2—Beginning French	8	Fr.—Approved electives	14
Fr. 101-102—Intermediate French	8		

Additional requirements:

Ed. 165f—Teaching of French or		One other foreign language.....	12-16
Ed. 165o—Teaching of French and Ad- vanced French Grammar	2-3		

Geography

Geog.—Approved electives	21	Geol. 1-2—Elementary Geology or	
		Geol. 125—Physical Geology and	
		Geol. 126—Historical Geology	6

Additional requirement:

Ed. 169g—Teaching of Geography in Upper Grades and High School.....	3		
---	---	--	--

German

Ger. 1-2—Beginning German	8	Ger. 109-110—German Grammar and	
Ger. 101-102—Intermediate German	8	Composition	4
		Ger.—Approved electives	10

Additional requirements:

Ed. 165g—Teaching of German.....	2	One other foreign language.....	12-16
----------------------------------	---	---------------------------------	-------

History and Government

Govt. 1, 2—American Government	6	Hist. 110, 111—History of the U. S.....	6
Hist. 1, 2—Survey of European Civil- ization	6	Hist. and Govt.—Approved electives ...	10

Additional requirement:

Ed. 169h—Teaching of History and Civics in Junior and Senior High Schools.....	2		
--	---	--	--

Home Economics*

H. Ec. 1—Clothing Selection and Con- struction	3	H. Ec. 225—Dietetics	3
H. Ec. 21—Foods and Nutrition or		H. Ec. 227—Quantity Cookery	3
H. Ec. 105—Household Equipment	3	H. Ec. 251—Home Management	2
H. Ec. 110—Textiles	3	H. Ec. 253—Home Management Laboratory	2
H. Ec. 122—Economics of Foods.....	3	H. Ec. 256—Economics of Consumption..	3
H. Ec. 131—Home Planning	3	H. Ec. 271, 272—Child Development ...	4
H. Ec. 216—Clothing Design and Con- struction	3	H. Ec. 273—Family Relationships	3
		H. Ec. Approved electives	2

Additional requirements:

Chem. 1-2 or 3-4—General Chemistry ...	8	P. A. A. 102—Applied Design	3
Ed. 168h—Teaching of Home Economics	3	Zool. 141—Elementary Bacteriology ...	4
P. A. A. 101—Design and Composition...	2		

Industrial Arts

Ind. A. 2—Elementary Woodworking ...	3	Ind. A. 141-142—Printing	6
Ind. A. 7—Sheet Metal	3	Ind. A. 147—Advanced Printing	3
Ind. A. 109—Cabinet Making	3	Ind. A. 212—School Shop Equipment and Organization	3
Ind. A. 116—Constructive Design	2	Ind. A. 226—History of Industrial and Vocational Arts	3
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Ind. A. 228—Special Problems in Industrial Arts	3
Ind. A. 124—Machine Shop	2		
Ind. A. 131—Clay and Concrete Work...	2		

Additional requirements:

C. E. 1-2—Mechanical Drawing	4	Chem. 1-2 or 3-4; Physics 5, 6; or	
Ed. 160m—Teaching of Industrial Arts...	3	Math. 5-6—One year in one subject....	8-10
		E. E. 103—Practical Electricity	3

Italian

It. 1-2—Beginning Italian	8	It.—Approved electives†	14
It. 101-102—Intermediate Italian	8		

Additional requirements:

Ed. 165f, Ed. 165o, Ed. 165r, or Ed. 165s—Teaching of French, Latin, or Spanish.....	2		
One other foreign language	12-16		

*This outline in Home Economics qualifies for the teaching of Vocational Home Economics in Ohio and other states.

†May include Eng. 271—Dante.

Latin

For those entering with 4 years of Latin:

Hours		Hours	
Lat. 101—Familiar Essays	4	Lat. 112—Writing Latin Prose	1
Lat. 102—Horace and Terence	4	Lat. 231—The Life of the Romans	2
Lat. 103—Pliny's Letters	3	Lat. and Gk.—Approved electives	6-8
Lat. 104—Livy and Ovid	3		

For those entering with 2 years of Latin: Lat. 3—Cicero's Orations (4), Lat. 4—Vergil (4), and 19 hours from the above.

Additional requirements:	
Ed. 165r—Teaching of Latin	2
One other foreign language	12-16

Mathematics

Math. 4—Solid Geometry or		Math. 14—Descriptive Astronomy or	
Math. 105—College Geometry	3	Math. 34—Mathematics of Finance or	
Math. 5-6—Freshman Mathematics	10	Math. 125—Elementary Statistics or	
Math. 117—Differential Calculus	4	Math. 201—Theory of Equations	3
Math. 118—Integral Calculus	4		
Additional requirements:			
Ed. 163s—Teaching Arithmetic in		Ed. 281—Educational Statistics	3
Upper Grades	3		
Ed. 168m—Teaching of Mathematics			
in the High School	3		

Music — General Supervision

Mus.—Applied Music	8	Mus. 113-114—Analysis and Form	4
Mus.—Piano	4	Mus. 127—Music Appreciation	3
Mus.—Voice	4	Mus. 131—Music Materials and Systems	2
Mus. 3-4, 23-24, 103-104—Ear Training		Mus. 133-134—Instrumentation	4
and Sight Singing	8	Mus. 173-174—Conducting	2
Mus. 11 or 12—Music History	2	Mus. 109-110—Ensemble	2
Mus. 105-106, 107-108, 111-112—Harmony	8		
Additional requirements:			
Ed. 166d—Teach. of Dances and Games	1	Ed. 166s—Teach. of Class Stringed	
Ed. 166f—Teach. of Music in First		Instruments	1
Six Grades	3	Ed. 166w—Teach. of Class Wind	
Ed. 166j—Teach. of Music in Junior		Instruments	1
and Senior High School	3	Ed. 166v—Teach. of Class Voice	2

Music — Instrumental Supervision

Mus.—Band	4	Mus. 105-106, 107-108, 111-112—Harmony	8
Mus.—Major Instrument	8	Mus. 113-114—Analysis and Form	4
Mus.—Minor Instrument	4	Mus. 127—Music Appreciation	3
Mus.—Orchestra	4	Mus. 133-134—Instrumentation	4
Mus.—Piano*	4	Mus. 173-174—Conducting	2
Mus. 3-4, 23-24, 103-104—Ear Training			
and Sight Singing	8		
Mus. 11—Music History	2		
Additional requirements:			
Ed. 166b—Teach. of Instrumental Music	3	Ed. 166s—Teach. of Class Stringed	
Ed. 166j—Teach. of Music in Junior		Instruments	1
and Senior High School	3	Ed. 166w—Teach. of Class Wind	
		Instruments	1

Painting and Allied Arts

P. A. A. 11-12—Theory of Design	6	P. A. A. 152—Bookbinding	2
P. A. A. 21-22—History of the Space		P. A. A. 171—House Decoration	3
Arts	6	P. A. A. 207—Advanced Design	3
P. A. A. 103—Practical Design	2	P. A. A. 249—Art Supervision and	
P. A. A. 113—Lettering	3	Curricula	2
P. A. A. 114—Textile Design	3	P. A. A. 45—Methods in Representation	2
P. A. A. 115—Pottery	2	P. A. A. 77-78—Elementary Photography	4
P. A. A. 117—Form and Composition	3	P. A. A.—Electives	5
P. A. A. 118—Water Color	2		
P. A. A. 137—Costume Design	2		
Additional requirements:			
C. E. 1—Mechanical Drawing	2	Ed. 160h—Teaching of the Space Arts	2

*A minimum of two hours in piano is required. The two additional hours may be applied on major or minor instrument requirements at the discretion of the adviser.

Physical Welfare — Men

Hours	Hours		
P. W. 1, 6—Sports, Physical Activities.....	2	P. W. 152—Kinesiology	2
P. W. 22—Personal and Public Health.....	3	P. W. 153—Nature and Function of Play ..	2
P. W. 121, 122, 123, 124, 171—Physical Activities	7	P. W. 204—Prin. of Physical Welfare.....	2
P. W. 125—Scouting	1	P. W. 205—History of Physical Edu- cation	2
P. W. 127—First Aid	2	P. W. 206—Organization and Adminis- tration of Physical Welfare ..	2
P. W. 133—Theory and Practice of Adapted Activities	2	P. W. 250—Community Recreation	2
		P. W. 252—School Health Program.....	3
Additional requirements:		Ed. 167h—Teaching of Health.....	2
Ed. 167d—Coaching of Baseball (1),		Zool. 3-4—General Zoology	6
Ed. 167e—Coaching of Basketball (2),		Zool. 115—Elements of Anatomy	3
Ed. 167f—Coaching of Football (2), and		Zool. 126—Elements of Physiology	4
Ed. 167t—Coaching of Track (1).....	4		

Physical Welfare — Women

P. W. 1, 2, 6, 7, 8—Sports, Dance.....	5	P. W. 152—Kinesiology	2
P. W. 22—Personal and Public Health.....	3	P. W. 204—Prin. of Physical Welfare.....	2
P. W. 121, 122—Physical Activities	4	P. W. 205—History of Physical Edu- cation	2
P. W. 127—First Aid	2	P. W. 206—Organization and Adminis- tration of Physical Welfare ..	2
P. W. 131—Mass Games	1	P. W. 250—Community Recreation	2
P. W. 132—Physical Welfare Practice.....	1	P. W. 252—School Health Program.....	3
P. W. 133—Theory and Practice of Adapted Activities	2		
Additional requirements:		Zool. 3-4—General Zoology	6
Ed. 167a, 167b—Teaching of Coaching.....	4	Zool. 115—Elements of Anatomy	3
Ed. 167h—Teaching of Health.....	2	Zool. 126—Elements of Physiology	4
Ed. 167k—Teaching of Physical Wel- fare in Jr. and Sr. H. S.....	2		
Ed. 167n, 167o—Teaching of Rhythmic Activities	2		

Physics

Phys. 5, 6—Introduction to Physics.....	8	Phys.—Approved electives	10
Phys. 113, 114—General Physics	8		
Additional requirements:		Math. 5-6—Freshman Mathematics	10
Chem. 1-2 or 3-4—General Chemistry	8		
Ed. 168p—Teaching of Physics	2		

Psychology

Psych. 1—General Psychology	3	Psych. 203—Mental Measurements	3
Psych. 3—Child Psychology	3	Psych.—Electives (to be chosen in con- sultation with a depart- mental adviser)	12
Psych. 5—Educational Psychology	3		
Electives:		Psych. 205—Clinical Psychology	3
Psych. 109—Experimental Psychology	3	Psych. 209—Motivation	3
Psych. 113—Psychology of Adolescence.....	2	Psych. 210—Mental Hygiene	3
Psych. 116—Psychology of Individual Differences	2	Psych. 217—Psychology of Personality.....	3
Psych. 204—Psychology of Exceptional Children	2	Psych. 219—Adv. Clinical Psychology.....	3
		Psych. 233—Learning and Memory	2
		Psych. 278—Adv. Educational Psychology ..	3

Science (Comprehensive Major)

Bot. 1, 2—Freshman Botany or		Math. 14—Descriptive Astronomy	3
Bot. 101, 102—General Botany	6	Phys. 5, 6—Introduction to Physics	8
Chem. 1, 2 or 3, 4—General Chemistry	8	Zool. 3-4—General Zoology	6
Geol. 1-2—Elementary Geology	6	Elective in Science	3
Additional requirements:			
Ed. 168b, 168g, 168p, 168s, or 168z—The Teaching of Botany, General Science, Physics, Chemistry and Laboratory Practice, or Zoology.....	2-4		

Social Studies (Comprehensive Major)

Ec. 101-102—Principles of Economics.....	6	Hist. 110, 111—History of U. S.....	6
Geog. 3-4—Principles of Geography	6	Soc. 101—Principles of Sociology	3
Govt. 1, 2—American Government	6	Soc. 103—Social Change and Social Problems	3
Hist. 1, 2—Survey of European Civilization	6	Electives in social study	4
Additional requirements:			
Ed. 169g—Teaching of Geography in Upper Grades and High School or			
Ed. 169h—Teaching of History and Civics in Junior and Senior High School or			
Ed. 169s—Teaching of Social Science	2-3		

Sociology		Hours
Soc. 101—Principles of Sociology	3	12
Soc. 103—Social Change and Social Problems	3	
Additional requirements:		
Ec. 101-102—Principles of Economics	6	3
Ed. 169s—Teaching of Social Science	2	
		Geog. 105—Industrial and Commercial Geography
		3
Spanish		Hours
Sp. 1-2—Beginning Spanish	8	14
Sp. 101-102—Intermediate Spanish	8	
Additional requirements:		
Ed. 165s—Teaching of Spanish	2	12-16
		One other foreign language
		12-16
Zoology		Hours
Zool. 3-4—General Zoology	6	4
Zool. 119—General Entomology	4	10
Additional requirements:		
Bot. 1, 2—Freshman Botany or Bot. 101, 102—General Botany	6	2
		Ed. 168z—Teaching of Zoology
		2

General requirements for a major in any phase of elementary education:*

	Hours
1. P. R. 1—College Problems	1
2. Education and Psychology	14
Psych. 1—General Psychology	3
Ed. 111—Elementary Education	6
Ed. 141—Audio-Visual Education	2
Ed. 255—Philosophy of Education	3
3. English	12
Eng. 1-2 or 3-4—English Composition	6
Eng. 102, 111, 112, or 130	6
4. Dram. A. 15—Voice and Diction	2
5. Foreign Language‡	0-8
Two units of high school credit or one year of college credit	
6. Home and Shop Arts	3
H. Ec. 55 or 56—Household Arts for the Elementary School	2
Ind. A. 122—Elementary Industrial Arts	1
7. Music	6
Mus. 1—Music Literature and Appreciation	2
Mus. 2—Music Fundamentals	2
Mus. 166e—Teaching Music in Elem. Grades	2
8. Painting and Allied Arts	5
P. A. A. 3—The Arts for Elementary Teachers	2
P. A. A. 157—Appreciation of the Space Arts	1
P. A. A. 103—Practical Design	2
9. Physical Welfare	8
P. W.—Freshman and sophomore requirement (military science† may be substituted for 2 semester hours)	4
P. W. 22—Personal and Public Health or P. W. 151—Principles of Health	3
Ed. 167p—Teaching of Physical Welfare	1

*All students who graduate from the four-year course in any phase of elementary education after September 1, 1940, must meet the regulations of the State of Ohio Department of Education which were issued as effective on September 1, 1939.

‡To be taken by freshmen only if they have had fewer than 2 units in the subject in high school.

†Students who elect military science must complete 2 semester hours of physical welfare in addition to the 4 semester hours of military science.

	Hours
10. Science and Mathematics -----	9-17
Science -----	9
Bot. 133, 134—Nature Study	
Phys. 1, 2—The Physical World	
Mathematics‡ -----	0-8
Two units of high school mathematics or	
Math. 1—Elementary Algebra and	
Math. 3—Plane Geometry	
11. Social Studies -----	17
Geog. 150—Geography and Environment -----	3
Soc. 1—General Sociology or	
Soc. 101—Principles of Sociology -----	3
Soc. 107—Educational Sociology -----	3
Elect from the following: -----	8
Ec. 1, 2—Economic Development or	
Ec. 101-102—Principles of Economics	
Ed. 144—School Library Administration	
Geog.—(not teaching techniques)	
Govt. 1, 2—American Government or	
Hist. 110, 111—History of U. S.	
Hist. 1, 2—Survey of European Civilization	
Phil. 103—Introduction to Philosophy	

Additional requirements for a major in intermediate grade education:

Sophomore Year	
Ed. 2—Literature for Early Childhood -----	3
Ed. 63b—Teaching of Reading in Intermediate Grades -----	2
Ed. 63g—Teaching of Arithmetic in Intermediate Grades -----	3
Psych. 5—Educational Psychology -----	3
Junior Year	
Ed. 60g—Teaching of Design for Intermediate and Higher Grades -----	1
Ed. 64g—Teaching of Language Arts in the Grades or	
Ed. 169f—Teaching of Geography and History in Elementary Grades or	
Ed. 169g—Teaching of Geography in the Upper Grades and High School -----	2-3
Ed. 175—Observation and Participation in Intermediate Grades -----	3
Ed. 176—Student Teaching in Intermediate Grades -----	4
Senior Year	
Ed. 177—Advanced Student Teaching in Intermediate Grades -----	4
Ed. 211—The Elementary Curriculum -----	3
Ed. 256—Progressive Education -----	3
Govt. 105—Current Political and Social Problems -----	2

Additional requirements for a major in kindergarten-primary education:

Sophomore Year	
Ed. 1—Play and Play Materials -----	2
Ed. 2—Literature for Early Childhood -----	3
Ed. 63a—Teaching of Reading in Primary Grades -----	2
Mus.—Piano (Not required for primary teachers) -----	2
Psych. 3—Child Psychology -----	3
Junior Year	
Ed. 60c—Teaching of Design for Early Childhood -----	1
Ed. 101—Activities for Early Childhood -----	3
Ed. 171—Observation and Participation in Kindergarten-Primary Grades -----	3
Ed. 172, 173—Student Teaching in Kindergarten-Primary Grades -----	6
Senior Year	
Ed. 174—Advanced Student Teaching in Kindergarten-Primary Grades -----	4
Ed. 201—Kindergarten-Primary Curriculum -----	3
Ed. 202—Survey of Early Childhood Education -----	3

‡To be taken by freshmen only if they have had fewer than 2 units in the subject in high school.

Additional requirements for a major in special education:

	Hours
Sophomore Year	
Ed. 64g—Teaching of Language Arts in the Grades or	
Ed. 169f—Teaching of Geography and History in Elementary Grades-----	2-3
Ed. 63b—Teaching of Reading in Intermediate Grades-----	2
Ed. 221—Organization of Special Classes -----	2
Ed. 101—Activities for Early Childhood -----	3
Psych. 5—Educational Psychology -----	3
Junior Year	
Ed. 175—Observation and Participation in Intermediate Grades-----	3
Ed. 178—Student Teaching in Special Education -----	4
Ed. 222—Diagnosis and Remedial Instruction in Elementary Subjects-----	2
Psych. 116—Psychology of Individual Differences or	
Psych. 212—Abnormal Psychology and Mental Hygiene -----	2-3
Psych. 203—Mental Measurements -----	3
Senior Year	
Ed. 177—Advanced Student Teaching in Intermediate Grades-----	4
Ed. 223—Curriculum for Special Classes -----	3
Ed. 240—School Administration -----	3
Psych. 225—Minor Problems in Psychology -----	2

THREE-YEAR DIPLOMA COURSES

The curriculum for a three-year course in elementary education requires the completion of the general graduation requirements which pertain to the granting of a diploma and a total of 94 semester hours with a point-hour ratio of 2.000. The course must be completed by September, 1942.

No new beginning student will be allowed to register for a three-year course. These outlines are given for the convenience of students who expect to complete the course by September 1, 1942.

The requirements for the curriculum in preparation for teaching in intermediate grades are:

Freshman Year			
First Semester	Hours	Second Semester	Hours
Bot. 133—Nature Study -----	3	Bot. 134—Nature Study -----	3
P. R. 1—College Problems -----	1	Dram. A. 15—Voice and Diction -----	2
Eng. 1 or 3—English Composition -----	3	Eng. 2 or 4—English Composition -----	3
H. Ec. 55—Household Arts for the Elem. School or		H. Ec. 55—Household Arts for the Elem. School or	
Mus. 2—Music Fundamentals -----	2	Mus. 2—Music Fundamentals -----	2
P. W. 1-9—Physical Welfare -----	1	P. W. 2-10—Physical Welfare -----	1
P. W. 22—Personal and Public Health or		P. A. A. 3—The Arts for Elementary Teachers -----	2
P. W. 151—Principles of Health -----	3	Psych. 1—General Psychology -----	3
Soc. 1—General Sociology -----	3		
Sophomore Year			
Ed. 63b—Teaching of Reading -----	2	Ed. 64g—Teaching of Language Arts-----	2
Ed. 63g—Teaching of Arithmetic-----	3	Ed. 166e—Teaching of Music in Elementary Grades -----	2
Ed. 167p—Teaching of Physical Welfare or		Ed. 167p—Teaching of Physical Welfare or	
Ind. A. 122—Elem. Industrial Arts -----	1	Ind. A. 122—Elem. Industrial Arts-----	1
Geog. 150—Geography and Environment 3		Eng. 111 or 112—The Chief American	
Hist. 1—Survey of Eur. Civilization -----	3	Eng. 111 or 112—The Chief American Writers -----	3
P. W. 101-113—Physical Welfare -----	1	Hist. 2—Survey of Eur. Civilization-----	3
Psych. 5—Educational Psychology -----	3	Phys. 1—The Physical World -----	3
		Soc. 107—Educational Sociology -----	3
Junior Year			
Ed. 111—Elementary Education -----	6	Ed. 60g—Teaching of Design -----	1
Ed. 175—Observation and Participation 3		Ed. 141—Audio-Visual Education -----	2
Ed. 176—Student Teaching -----	4	Ed. 2—Literature for Early Childhood 3	
Elect from general requirements in elementary education -----	3	P. A. A. 157—Appreciation of the Space Arts -----	1
		P. W. 102-112—Physical Welfare -----	1
		Elect from general requirements in elementary education -----	5

The requirements for the curriculum in preparation for teaching in the kindergarten-primary grades are:

Freshman Year		Second Semester	
First Semester	Hours		Hours
Bot. 133—Nature Study	3	Bot. 134—Nature Study	3
P. R. 1—College Problems	1	Ed. 1—Play and Play Materials.....	2
Eng. 1 or 3—English Composition	3	Eng. 2 or 4—English Composition	3
H. Ec. 55—Household Arts for the Elem. School or		H. Ec. 55—Household Arts for the Elem. School or	
P. A. A. 3—The Arts for Elementary Teachers	2	P. A. A. 3—The Arts for Elementary Teachers	2
P. W. 1-9—Physical Welfare	1	P. W. 2-10—Physical Welfare	1
P. W. 22—Personal and Public Health or		Mus. 2—Music Fundamentals	2
P. W. 151—Principles of Health	3	Psych. 1—General Psychology	3
Soc. 1—General Sociology	3		
Sophomore Year			
Ed. 2—Literature for Early Childhood	3	Dram. A. 15—Voice and Diction	2
Ed. 63a—Teaching of Reading	2	Geog. 150—Geography and Environment	3
Ed. 101—Activities for Early Childhood	3	Ed. 166e—Teaching of Music in Elementary Grades	2
Ed. 167p—Teaching of Physical Welfare or		Ed. 167p—Teaching of Physical Welfare or	
Ind. A. 122—Elem. Industrial Arts	1	Ind. A. 122—Elem. Industrial Arts.....	1
Hist. 1—Survey of Eur. Civilization	3	Hist. 2—Survey of Eur. Civilization.....	3
P. W. 101-113—Physical Welfare	1	Phys. 1—The Physical World	3
Psych. 3—Child Psychology	3	Soc. 107—Educational Sociology	3
Junior Year			
Ed. 111—Elementary Education	6	Ed. 60c—Teaching of Design	1
Ed. 171—Observation and Participation	3	Ed. 141—Audio-Visual Education	2
Ed. 172—Student Teaching	4	Ed. 173—Student Teaching	2
Eng. 111 or 112—The Chief American Writers	3	Eng. 111 or 112—The Chief American Writers	3
Mus.—Piano (not required for pri- mary teachers)	2	P. A. A. 157—Appreciation of the Space Arts	1
		P. W. 102-112—Physical Welfare	1
		Elect from general requirements in elementary education	1

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

The College of Education specifies three semester hours of observation and participation and from four to ten semester hours of student teaching in the requirements outlined for the degree of Bachelor of Science in Education and for the three-year diplomas. Student teaching credit may be transferred from accredited colleges, but will not fully satisfy the requirements. In no case shall fewer than two or three semester hours of student teaching in the training schools of the university satisfy this requirement.

Student teaching reservations should be made before the opening of the semester or summer session in which the work is to be completed. Reservation blanks are secured from Dr. A. B. Sias, In Charge of Teacher Training, Ohio University.

ELEMENTARY TRAINING SCHOOLS. Student teaching is done in the kindergarten and the elementary grades of the University Elementary School maintained by Ohio University. The enrollment is not selective and the school is a typical school. The equipment compares favorably with that in the best city schools. Facilities for elementary teaching are also available in The Plains Elementary School at The Plains, a community four miles from Athens, and in the Mechanicsburg School, two miles from Athens. A supervising critic is in charge of each room of these elementary schools.

A unit of the University Elementary School is equipped for practice in special education. A group of from 12 to 16 children is carefully selected from the schools of Athens. Opportunity is afforded for individual diagnosis of problem children.

JUNIOR HIGH TRAINING SCHOOL. Students who are preparing for teaching in the upper grades or junior high school do their student teaching in the Athens Junior High School, which has an enrollment of about 400 students, or in The Plains High School.

SENIOR HIGH TRAINING SCHOOL. Students who are preparing for high school teaching do their student teaching in the Athens High School or in The Plains High School. The Athens Senior High School has an enrollment of about 350 students and is located a short distance from the campus. The arrangements with the Athens High School and The Plains High School provide unusual facilities for all phases of high school teaching.

Transportation to the Mechanicsburg and The Plains schools is furnished by the university without cost to the students.

PREREQUISITES FOR ALL TYPES OF STUDENT TEACHING:

1. A student must have at least a C (2.000) average in Eng. 1-2 or Eng. 3-4, or make a satisfactory grade on a written proficiency test in English.
2. A student must have a satisfactory grade in oral English. The grade in oral English is generally given while the student is enrolled for Eng. 2 or Eng. 4. This grade is recorded in the office of the dean of the College of Education.
3. A student must meet standards required in speech. A speech test may be required when necessary as evidence to determine freedom from speech defects. A fee of \$1 is charged for a test when a mechanical recording is necessary.
4. In general, only students who meet the standard in the psychological test for entrance to teacher preparation shall be admitted to the courses in observation and participation and student teaching. This requirement is based on Sec. 7659 of the Ohio statutes and the regulations of the State of Ohio Department of Education. Exceptions can be made to this standard only in case of a high scholastic record and unusually favorable personality traits.

The results of the written proficiency test in English and the speech test are used as a basis for rejecting or approving a student's application for student teaching.

All students who apply for student teaching after September 1, 1940, are required to meet the above standards.

ADDITIONAL PREREQUISITES FOR STUDENT TEACHING IN THE ELEMENTARY SCHOOLS:

1. Completion of at least 64 semester hours of the outlined course, including prerequisite requirements, with at least two times as many scholastic points as semester hours attempted
2. A score of at least 80 on the Ayers Scale for Handwriting

ADDITIONAL PREREQUISITES FOR STUDENT TEACHING IN SPECIAL SUBJECTS AND IN HIGH SCHOOL ACADEMIC SUBJECTS:

1. Completion of 90 semester hours of the outlined course with at least two times as many scholastic points as semester hours attempted*
2. Completion of subject matter, at least to the extent represented by the state requirements for a teaching minor, in the subject or field in which the teaching is to be done. These requirements are found under the heading, "Teaching Certificates." The scholastic record in the subject must include at least two times as many scholastic points as semester hours attempted.*
3. Completion of the following courses in education with at least two times as many scholastic points as semester hours attempted:*
 - Psych. 5—Educational Psychology (3)
 - Ed. 130—Principles of Secondary Education (3)
 - Ed.—Teaching Techniques (in subject to be taught) (2)
4. Completion of the following courses in education with at least two times as many scholastic points as semester hours attempted* either before student teaching is begun or during the semester in which the teaching is done:
 - Ed. 180—Observation and Participation in High School, Academic Subjects or
 - Ed. 182—Observation and Participation in Special Subjects (3)
 - Ed. 131—Educational Tests and Measurements (2)†

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce. As the conception of training for business life broadened, the curricula in commerce were steadily expanded until today they include the fields of accounting, advertising, banking, business law, economics, finance, labor, management, marketing, public utilities, statistics, and taxation. As a result, the College of Commerce offers a comprehensive program of courses in business and economics

*Lack of points may be made up by taking additional approved courses at Ohio University.

†Not required of majors in art, commerce, home economics, industrial arts, music, or physical welfare.

leading to the degree of Bachelor of Science in Commerce. The college also includes the department of secretarial studies which offers a curriculum leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism which offers theoretical and practical courses leading to the degree of Bachelor of Science in Journalism.

Because it is desirable for business men and women to share activities and leadership in social, civic, governmental, and general professional life, every student in the College of Commerce takes courses in other schools and colleges of the university to widen his scope of interest. The College of Commerce in turn aims to serve students enrolled in other colleges of the university. Such students are admitted to any of its courses on the same basis as are students registered in the College of Commerce.

All candidates for degrees in the College of Commerce complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.000. The total hours include the requirements of the University College, four semester hours of physical welfare or military science, and three years of work under the direction of the College of Commerce comprising approximately 94 semester hours.

BACHELOR OF SCIENCE IN COMMERCE

The 124 semester hours required for the degree of Bachelor of Science in Commerce include approximately 50 semester hours in commercial and economic subjects and 50 semester hours in subjects other than economics and commerce. During the three years in the College of Commerce, approximately one half of the curriculum is on an elective basis. Through the use of elective hours, a student can give almost any emphasis he desires to his college training. A portion of the elective courses may be concentrated in one field or they may be spread among several. All elective courses are subject to the approval of the dean of the college or his appointed faculty advisers. The suggested sequence of the curriculum leading to the degree of Bachelor of Science in Commerce follows:

Freshman Year					
The University College program should include the following:					
First Semester		Hours	Second Semester		Hours
Acct. 75—Elementary Accounting or			Acct. 76—Elementary Accounting or		
Ec. 3—Contemporary Economic Society*	3		Ec. 1—Economic Development of		
Soc. 1—General Sociology*	3		the U. S.*	3	
			Ec. 15—Economic Geography*	3	
Sophomore Year					
Acct. 75—Elementary Accounting	3		Acct. 76—Elementary Accounting	3	
Ec. 101—Principles of Economics	3		Ec. 102—Principles of Economics	3	
Fin. 101—Money and Credit*	3		Fin. 121—Business Finance*	3	
P. W. 101—Sports or			P. W. 102—Sports or		
Mil. Sc. 101—Basic Infantry	1		Mil. Sc. 102—Basic Infantry	1	
Sec. St. 120—Business Letter Writing*	3		Eng.—Elective*	2-3	
Electives	3		Electives	3	
		16			15-16

*May be taken either semester.

Junior Year					
First Semester		Hours	Second Semester		Hours
Bus. L. 155—Business Law	-----	3	Bus. L. 156—Business Law	-----	3
Mgt. 211—Industrial Management*	†-----	3	Advt. 155—Advertising Principles* †	-----	3
Mkt. 155—Marketing Principles*	-----	3	Ec.—Elective*	-----	2-3
Stat. 155—Business Statistics	-----	3	Stat. 156—Business Statistics	-----	3
Electives	-----	4	Electives	-----	4
		16			15-16
Senior Year					
Bus. L. 175—Government and Business*		2	Phil. 111—Business and Professional		
Electives	-----	14	Electives	-----	2
		16			14
		16			16

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Recognizing the need and the increasing demand that executives in industry have a knowledge of and training in economics and business management, the College of Commerce cooperates with the College of Applied Science in offering a curriculum in industrial engineering. This is given in outline form under "College of Applied Science." Two definite fields of major study, management and marketing, are open to students in this curriculum.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

In order to prepare secretaries for responsible positions in business and other offices, the curriculum leading to the degree of Bachelor of Science in Secretarial Studies affords students the same opportunity for becoming acquainted with basic business courses and general non-business courses as does the curriculum for the Bachelor of Science in Commerce degree. In the strictly secretarial subjects, students are expected to meet the standards of proficiency required for successful employment. At the completion of the four-year course, students must pass proficiency tests in shorthand and typing.

Special care is taken to enable students to secure carefully supervised practice in the secretarial field as a part of the curriculum. This practice includes the use of all representative office machinery and experience in secretarial techniques under normal business office conditions.

Students entering with high school credit in shorthand or typing are required to take a placement test in order to determine the class in which they should register. Substitute work will be given to those students who have been assigned to advanced courses. The curriculum leading to the degree follows:

Freshman Year					
The University College program should include:					
First Semester		Hours	Second Semester		Hours
Soc. 1—General Sociology*	-----	3	Ec. 1—Economic Development of the U. S.*	-----	3
Ec. 3—Contemporary Economic Society,*	-----	3	Ec. 15—Economic Geography*	-----	3
Sec. St. 15—Typewriting or	-----	2-3	Sec. St. 16—Typewriting or	-----	2-3
Sec. St. 31—Shorthand	-----	2-3	Sec. St. 32—Shorthand	-----	2-3

*May be taken either semester.
 †Ec. 212 may be substituted.
 †Mkt. 158 or Mkt. 201 may be substituted.

Sophomore Year			
First Semester	Hours	Second Semester	Hours
Acct. 101—Secretarial Accounting -----	3	Acct. 102—Secretarial Accounting -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry -----	1	Mil. Sc. 102—Basic Infantry -----	1
Sec. St. 15—Typewriting or		Sec. St. 16—Typewriting or	
Sec. St. 31—Shorthand -----	2-3	Sec. St. 32—Shorthand -----	2-3
Sec. St. 120—Business Letter Writing* -----	3	Eng.—Elective -----	2-3
Eng.—Elective -----	2-3	Electives -----	4-5
Electives -----	2		
	16-18		16-17
Junior Year			
Mkt. 155—Marketing Principles† -----	3	Advt. 155—Advertising Principles‡ -----	3
Psych. 1—General Psychology -----	3	Psych. 220—Personnel and Vocational	
Sec. St. 151—Elementary Dictation and		Counseling -----	2
Transcription -----	3	Sec. St. 152—Intermediate Dictation	
Sec. St. 171—Secretarial Theory -----	2	and Transcription -----	3
Electives -----	5	Sec. St. 185—Office Management -----	2
		Sec. St. 172—Secretarial Theory -----	2
		Eng.—Elective -----	2-3
		Electives -----	2
	16		16-17
Senior Year			
Bus. L. 155—Business Law -----	3	Bus. L. 156—Business Law -----	3
Fin. 121—Business Finance† -----	3	Fin. 101—Money and Credit† -----	3
Sec. St. 111—Typewriting -----	2	Sec. St. 175—Secretarial Practice -----	4
Sec. St. 153—Advanced Dictation and		Electives -----	6
Transcription -----	4		
Electives -----	4		
	16		16

COMMERCIAL TEACHER TRAINING. Training to prepare students for the teaching of commercial subjects in high school is offered by the College of Commerce in cooperation with the College of Education. The curricula for these fields, which include bookkeeping-social business, economics, business education, salesmanship-merchandising, stenography-typing, are outlined in the curricula of the College of Education and under the heading, "Teaching Certificates." The majors are planned according to the revised regulations for certification in commercial subjects.

BACHELOR OF SCIENCE IN JOURNALISM

The curricula leading to the degree of Bachelor of Science in Journalism include not only classroom courses, but also actual experience on the staff of a daily newspaper under the direction of news and business executives. Classroom and laboratory courses, together with allied printing, photography, and advertising courses, offer an opportunity to meet the needs of those planning for a writing career, those interested in business management of publications, and those desiring to unite the two interests. Special curricula are outlined for those wishing to limit their training to magazine and feature writing or to newspaper advertising. Combined with the student's selection from journalism and allied courses is a broad cultural background in which emphasis is placed upon

*May be taken either semester.

†It is suggested that these foundation courses be carried in the third or fourth year according to the interests of the student. For example, if a student wishes to carry advanced work in banking and finance, it is recommended that the foundation courses in this field be carried in the third year.

‡Mkt. 158 or Mkt. 201 may be substituted.

literature, economics, finance, government, history, art, philosophy, psychology, and sociology. Development of specific fields of interest is encouraged. Special courses without journalism prerequisites are available for those who wish to write for magazines and trade journals and for those who plan to supervise high school publications or teach journalism in high schools.

The School of Journalism offers curricula sequences which permit specialization in four fields or divisions of journalism: general writing and editing, feature and magazine writing, advertising, and business management. The requirements are made up of the University College program and offerings from various colleges of the university, as well as those of the School of Journalism. The courses within the curricula may be varied to meet the needs of students who have special interests which they would like to pursue. The minimum requirements are outlined below.

Freshman Year

In the University College all journalism students are to take Hist. 1-2—Survey of European Civilization (6); Psych. 1—General Psychology (3); and Sec. St. 15—Typewriting (2) unless they can operate a typewriter efficiently. Ec. 3—Contemporary Economic Society (3) is required for all except those specializing in feature and magazine writing. Students specializing in general writing and editing and in feature and magazine writing are required to include P. A. A. 15—Introduction to the Space Arts (2) and Mus. 7—Music Appreciation (1).

If a course in science is required by the University College program, students should take Zool. 3-4—General Zoology (6). If a foreign language is required, a choice should be made from French, German, Spanish, or Italian in the order given.

Curriculum for specialization in general writing and editing:

Sophomore Year					
First Semester		Hours	Second Semester		Hours
Ec. 101—Principles of Economics	---	3	Ec. 102—Principles of Economics	---	3
Govt. 101—Comparative Government	---	3	Jour. 107—Newspaper Reporting	---	3
Jour. 103—News Writing	---	2	Jour. 147—Newspaper and Advertising	---	3
Jour. 105—The Newspaper	---	2	Typography	---	1
Soc. 101—Principles of Sociology	---	3	Jour. 146—Newspaper Make-up	---	1
Ind. A. 145—Printing and Printing	---	1	Jour. 172—Newspaper as a Business	---	2
Processes	---	1	Institution†	---	2
			Soc. 103—Social Change and Social	---	3
P. W. 101—Sports or			Problems	---	3
Mil. Sc. 101—Basic Infantry	---	1	P. W. 102—Sports or		
			Mil. Sc. 102—Basic Infantry	---	1
Junior Year					
Jour. 117—Newspaper Editing	---	3	Jour. 111—Reporting Practice	---	3
Jour. 151—Contemporary Thought and	---	3	Jour. 152—Contemporary Thought and	---	3
Developments	---	3	Developments	---	3
P. A. A. 77—Elementary Photography	---	2	P. A. A. 133—News Photography	---	2
Senior Year					
Jour. 111—Reporting Practice	---	3	Jour. 121—Editing Practice	---	2
Jour. 121—Editing Practice	---	2	Jour. 206—Newspaper Law	---	2
Jour. 207—Reporting of Public Affairs	---	2	Jour. 208—Journalism Ethics	---	2
Jour. 225—The Editorial Page	---	3			

†Requirement may be delayed to the junior or senior year and fulfilled by taking Jour. 243—Newspaper Management (3).

Curriculum for specialization in feature and magazine writing:

Sophomore Year			
First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
Jour. 103—News Writing	2	Eng. 150—The Short Story	2
Jour. 105—The Newspaper	2	Jour. 107—Newspaper Reporting	3
Soc. 101—Principles of Sociology	3	Soc. 103—Social Change and Social Problems	3
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry	1	Mil. Sc. 102—Basic Infantry	1
Junior Year			
Dram. A. 103—Introduction to the Theatre	2	Jour. 111—Reporting Practice	3
Eng. 175—Creative Writing	3	Jour. 130—Book Reviewing	2
Jour. 151—Contemporary Thought and Developments	3	Jour. 152—Contemporary Thought and Developments	3
Jour. 183—Fiction Writing for Newspapers and Magazines	3	Jour. 222—Feature and Magazine Writing	3
Senior Year			
Jour. 223—Advanced Magazine and Feature Writing	2	Jour. 134—Writing of Criticism	2
Jour. 225—The Editorial Page	3	Jour. 208—Journalism Ethics	2

Curriculum for specialization in newspaper advertising:

Sophomore Year			
Acct. 81—Accounting Survey*	2	Advt. 155—Advertising Principles	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Jour. 103—News Writing	2	Jour. 107—Newspaper Reporting	3
Mkt. 155—Marketing Principles	3	Jour. 147—Newspaper and Advertising Typography	1
Ind. A. 145—Printing and Printing Processes	1	Jour. 172—Newspaper as a Business Institution*	2
P. A. A. 147—Principles of the Space Arts in Advertising	2	P. W. 102—Sports or	
P. W. 101—Sports or		Mil. Sc. 102—Basic Infantry	1
Mil. Sc. 101—Basic Infantry	1		
Junior Year			
Mkt. 171—Principles of Personal Selling	2	Advt. 186—Retail Advertising	3
Mkt. 201—Retailing	3	Jour. 248—Advertising Production	2
Jour. 247—Newspaper Advertising and Layout	3		
Senior Year			
Jour. 151—Contemporary Thought and Developments	3	Jour. 152—Contemporary Thought and Developments	3
Jour. 177—Newspaper Advertising Practice	3	Jour. 177—Newspaper Advertising Practice	3
Adv. 232—Copy Writing	2	Jour. 208—Journalism Ethics	2

Curriculum for specialization in business management:

Sophomore Year			
Acct. 81—Accounting Survey‡	2	Advt. 155—Advertising Principles	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Jour. 103—News Writing	2	Jour. 107—Newspaper Reporting	3
Jour. 105—The Newspaper	2	Jour. 147—Newspaper and Advertising Typography	1
Mkt. 155—Marketing Principles	3	Jour. 146—Newspaper Make-up	1
Ind. A. 145—Printing and Printing Processes	1	P. W. 102—Sports or	
P. W. 101—Sports or		Mil. Sc. 102—Basic Infantry	1
Mil. Sc. 101—Basic Infantry	1		
Junior Year			
Bus. L. 155—Business Law	3	Advt. 176—Advertising Problems	2
Jour. 151—Contemporary Thought and Developments	3	Bus. L. 156—Business Law	3
Jour. 243—Newspaper Management	3	Jour. 152—Contemporary Thought and Developments	3
Jour. 247—Newspaper Advertising and Layout	3	Jour. 177—Newspaper Advertising Practice	2
		Psych. 6—Psychology of Advertising and Selling	3

*Acct. 75-76—Elementary Accounting (6) may be substituted and the requirement of Jour. 172 fulfilled in the junior or senior year by taking Jour. 243—Newspaper Management.

‡Acct. 75-76—Elementary Accounting (6) may be substituted.

Senior Year			
First Semester	Hours	Second Semester	Hours
Jour. 173—Newspaper Circulation		Jour. 206—Newspaper Law	2
Practice	2	Jour. 208—Journalism Ethics	2
Jour. 175—Newspaper Office and Plant			
Management Practice	2		
Mkt. 171—Principles of Personal Selling	2		
Mkt. 201—Retailing	3		

THE COLLEGE OF APPLIED SCIENCE

Since the practice of a profession varies in detail according to the requirements of the many industries employing graduates of the College of Applied Science, it has been found practicable to give emphasis to the fundamentals of the profession. These fundamentals are followed by application of the sciences to the various occupations of industry. The curricula are arranged so that a student may enter the fields of consultation, development, operation, management, or marketing and are designed to train the student so that he may have a choice of more than one position. In certain curricula, options afford a degree of specialization to those students who definitely elect a more limited profession; however, true specialization only begins after the graduate enters his professional career.

The College of Applied Science is composed of the departments of agriculture, civil engineering, electrical engineering, and industrial arts, and the School of Home Economics. Curricula are offered in the fields of agriculture, engineering, and home economics leading to the following degrees: Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Industrial Engineering, and Bachelor of Science in Home Economics.

The general requirements for admission are given on page 37. However, students intending to follow one of the engineering curricula should present, from high school, one unit of algebra, one unit of geometry, three units of social science, two units of foreign language, and two units of physical science. Deficiencies in the above suggestions may be completed in the University College, but since the courses in engineering require a knowledge of science and mathematics, more rapid progress in the outlined curricula can be made if the above subjects are taken in high school.

All students must fulfill the general graduation requirements of the university. Students electing the curriculum leading to the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics fulfill the requirements of the degree by taking the courses outlined and securing a minimum of 124 semester hours with a point-hour ratio of 2.000. Students electing a curriculum leading to the degree of Bachelor of Science in Engineering in the specified field fulfill the requirements of the degree by taking the courses outlined and securing 140 semester hours with a point-hour ratio of 2.000. The total number

of semester hours specified includes the requirements of the University College, four semester hours of physical welfare or military science, and the curriculum outlined by the College of Applied Science.

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach agriculture, industrial arts, or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. However, students who enroll in the College of Applied Science may complete the requirements for the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics and secure a teaching certificate by satisfying the education requirements specified by the department of education of the state in which the student desires to teach. The requirements specified by the State of Ohio Department of Education are listed under the heading "Teaching Certificates."

CIVIL PILOT TRAINING PROGRAM. Ohio University has been selected by the Civil Aeronautics Administration for participation in the Civil Pilot Training Program. The Athens Airways, Inc., operators of the Athens Municipal Airport, has been approved as flight operator by the administration for the private course, the restricted commercial course, and for certain refresher courses.

Private Course. Trainees must have completed satisfactorily one year at an accredited college or university, must have reached their nineteenth but not their twenty-sixth birthday on the day of registration for the course, must be able to get parental consent, and must be acceptable to the institution and the flight operator.

A student registers for courses C. A. 199—Controlled Private Ground Course and C. A. 197—Controlled Private Flying. The course fee covers registration, transportation to and from the airport, and insurance. The fee for the course is gradually being lowered because of the exceptional safety record maintained. Upon satisfactory completion of the required written ground school examination and the flight examination, the student receives his private pilot license.

Restricted Commercial Course. A trainee must have completed satisfactorily two years' work toward a degree at an accredited college or university when he finishes this course. He must possess private pilot license and must be recommended by the flight operator and the coordinator of Civil Pilot Training under whom he received his license. Other requirements of age, physical examination, parental consent, and acceptability are indicated under "Private Course"; however, the physical examination is more searching.

A student registers for courses C. A. 201—Restricted Commercial Ground Course and C. A. 202—Restricted Commercial Flight Training. The fee covers registration, transportation to and from the airport, and insurance.

Refresher Courses. The Athens Airways, Inc., is qualified to offer refresher courses for commercial pilots and others. This type of program is gradually being developed as facilities are improved.

Every precaution is taken to see that equipment is maintained in safe flying condition by required periodic check on airplanes and by routine replacement with new machines. Students in the private course use Taylorcraft side by side cabin trainers, and restricted commercial students use open cockpit tandem control Waco trainers. No serious accident has occurred to airplane or flyers in over six years of operation of the Athens Municipal Airport.

Requests for information should be addressed to the dean of the College of Applied Science, William M. Young, coordinator of the Civil Pilot Training Program.

BACHELOR OF SCIENCE IN AGRICULTURE

The curriculum outlined is designed for those who desire to equip themselves for service in general agriculture. Electives allow the student a degree of specialization in farm operation, horticulture, plant husbandry, and allied subjects. The courses are primarily fundamental to agriculture, its growth and improvement, and to the needs of the community and state.

Freshman Year

The University College program should include:

First Semester	Hours	Second Semester	Hours
Bot. 1—Freshman Botany	3	Agr. 1—General Agriculture	3
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4

Sophomore Year

Agr. 3—Forestry	2	Agr. 4—Forestry	2
Agr. 111—Rural Economics	3	Agr. 102—Vegetable Gardening	3
Agr. 121—Types and Breeds of Farm Animals	3	Agr. 127—Types Breeds and Management of Poultry	3
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Ind. A. 1—Elementary Woodworking or Mkt. 155—Marketing Principles	3	Zool. 3—General Zoology	3
P. W. 101—Sports or Mil. Sc. 101—Basis Infantry	1	P. W. 102—Sports or Mil. Sc. 102—Basic Infantry	1
	<hr/> 16		<hr/> 16

Junior Year

Agr. 103—Fruit Growing	3	Agr. 104—Small Fruits	3
Agr. 131—Floriculture and Greenhouse Management or Mkt. 191—Cooperative Marketing	2	Agr. 135—Farm Management	3
Agr. 143—Genetics	3	Agr. 144—Genetics	3
Zool. 141—Elementary Bacteriology	4	Zool. 119—General Entomology	4
Electives—As approved	4	Elective—As approved	2
	<hr/> 16		<hr/> 15

Senior Year

Agr. 115—Soils and Fertilizers	3	Agr. 116—Field Crops	3
Agr. 124—General Dairying	3	Agr. 109—Landscape Gardening	3
Agr. 226—Forest Survey	3	Bot. 205—Plant Physiology or Bot. 221—Plant Pathology	3
Electives—As approved	6	Electives—As approved	6
	<hr/> 15		<hr/> 15

CURRICULA IN ENGINEERING

Freshman students who intend to select a curriculum in engineering should make their intention known when they register in order that sub-

jects prerequisite to courses required in the curriculum may be included in the University College program. The student should register for the following courses:

Freshman Year			
First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
C. E. 1—Mechanical Drawing	2	C. E. 2—Mechanical Drawing*	2
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
		E. E. 1—Engineering Orientation	1

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary for a student who plans to engage particularly in the structural field of the building industry, or wishes to prepare himself for the business of contracting, the manufacture of building materials, or other branches of the building industry.

Freshman Year			
See courses given in first paragraph of "Curricula in Engineering."			
Sophomore Year			
First Semester	Hours	Second Semester	Hours
C. E. 105—Descriptive Geometry	3	C. E. 74—The Slide Rule	1
C. E. 107—Perspective Drawing	1	C. E. 110—Plane Surveying	3
P. A. A. 45—Methods in Representation	2	Acct. 81—Accounting Survey	2
P. A. A. 55—Elementary Architectural Problems	3	P. A. A. 56—Elementary Architectural Problems	3
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
P. W. 101—Sports or		Phys. 115—Elementary Sound	1
Mil. Sc. 101—Basic Infantry	1	P. W. 102—Sports or	
		Mil. Sc. 102—Basic Infantry	1
	18		19
Junior Year			
C. E. 121—Applied Mechanics	3	C. E. 124—Strength of Materials	3
C. E. 123—Materials of Construction	2	C. E. 126—Testing Laboratory	1
Dram. A. 3—Public Speaking	2	C. E. 128—Stresses in Structures	3
P. A. A. 155—Architectural Problems	5	P. A. A. 156—Architectural Problems	5
P. A. A. 175—History of Architecture	3	P. A. A. 176—Contemporary Architecture	3
Elective	3	Elective	3
	18		18
Senior Year			
C. E. 127—Testing Laboratory	1	C. E. 134—Structural Design	2
C. E. 135—Reinforced Concrete	3	C. E. 136—Reinforced Concrete	3
C. E. 139—Structural Design	3	C. E. 176—Contracts and Specifications	2
C. E. 227—Adv. Structural Analysis	3	C. E. 178—Engineering Economy	3
E. E. 133—Illuminating Engineering	2	Eng. 114—Engineering English	2
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Elective	3	Elective	3
	18		18

Suggested Electives:

C. E. 141—Hydraulics	3	C. E. 142—Water Supply and Sewerage	3
E. E. 127—Elements of Electrical Engineering	3	C. E. 228—Advanced Structural Analysis	2
E. E. 225—Acoustics	3	E. E. 230—Heat Power Engineering	3
E. E. 229—Engineering Thermodynamics	3	P. A. A. 185-186—Architectural Problems	10
		P. A. A. 255-256—Architectural Problems	10

*Architectural engineering students may substitute P. A. A. 56 if so advised. (See architectural engineering curriculum outline.)

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for the degree is planned to give the fundamental training necessary to a broad understanding of the field. Opportunity is given in the junior and senior years to elect courses so that a student may pursue any of three options: structural, sanitary, or transportation engineering. The student is not required to select an option, however, and may elect work in any department of the university.

Freshman Year

See courses given in first paragraph of "Curricula in Engineering."

Sophomore Year

First Semester		Second Semester	
	Hours		Hours
C. E. 74—The Slide Rule	1	C. E. 105—Descriptive Geometry	3
Dram. A. 3—Public Speaking	2	C. E. 110—Plane Surveying	3
Ec. 101—Principles of Economics.....	3	Ec. 102—Principles of Economics	3
Geol. 125—Physical Geology	3	Math. 118—Integral Calculus	4
Math. 117—Differential Calculus	4	Phys. 114—General Physics	4
Phys. 113—General Physics	4	Phys. 115—Elementary Sound	1
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry	1	Mil. Sc. 102—Basic Infantry	1
	18		19

Junior Year

C. E. 111—Route Surveying	2	Acct. 81—Accounting Survey	2
C. E. 121—Applied Mechanics	3	C. E. 122—Applied Mechanics	2
C. E. 125—Engineering Problems	3	C. E. 124—Strength of Materials	3
C. E. 151—Route Engineering	3	C. E. 126—Testing Laboratory	1
E. E. 127—Elements of Electrical		C. E. 130—Stresses in Structures	5
Engineering	3	C. E. 152—Highway Engineering	3
Elective	3	Elective	2
	17		18

Senior Year

C. E. 113—Topographic Surveying	2	Eng. 114—Engineering English	2
C. E. 133—Structural Design	5	C. E. 134—Structural Design	2
C. E. 135—Reinforced Concrete	3	C. E. 136—Reinforced Concrete	3
C. E. 127—Testing Laboratory	1	C. E. 142—Water Supply and Sewerage	3
C. E. 141—Hydraulics	3	C. E. 176—Contracts and Specifications	2
Elective	4	C. E. 178—Engineering Economy	3
	18	C. E. 291—Studies in Civil Engineering	1
		Elective	2
			18

Suggested Electives:

C. E. 107—Perspective Drawing	1	C. E. 214—Adv. Surveying Problems.....	2
Geol. 126—Historical Geology	3	E. E. 229—Engineering Thermodynamics	3
Geog. 132—Conservation of Natural		E. E. 230—Heat Power Engineering	3
Resources	3	Geol. 127—Rocks and Minerals	3
Math. 14—Descriptive Astronomy	3	Bus. L. 155-156—Business Law	6

Sanitary Engineering Option

Chem. 105—Qualitative Analysis	3	Chem. 109—Quantitative Analysis	4
C. E. 144—Water Supply and Sewerage	2	Chem. 115—Organic Chemistry	3
Zool. 141—Elementary Bacteriology	4		

Structural Engineering Option

C. E. 227—Adv. Structural Analysis.....	3	C. E. 224—Adv. Strength of Materials	2
Math. 215—Differential Equations	3	C. E. 228—Adv. Structural Analysis	2
		Math. 204—Adv. Calculus	3

Transportation Engineering Option

Ec. 205—Transportation	3	Ec. 210—Transportation and Public	2
Ec. 215—Public Finance	2	Utility Problems	2

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of electrical engineering to provide the background of general information and basic knowledge of principles which enables a student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering.

Freshman Year

See courses given in first paragraph of "Curricula in Engineering."

Sophomore Year

First Semester	Hours	Second Semester	Hours
C. E. 105—Descriptive Geometry	3	C. E. 110—Plane Surveying	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Ind. A. 126—Shop Engineering	2
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
P. W. 101—Sports or		Phys. 115—Elementary Sound	1
Mil. Sc. 101—Basic Infantry	1	P. W. 102—Sports or	
Dram. A. 3—Public Speaking	2	Mil. Sc. 102—Basic Infantry	1
	19		18

Junior Year

C. E. 121—Applied Mechanics	2	C. E. 122—Applied Mechanics	2
E. E. 143—Electrical Engineering	4	C. E. 124—Strength of Materials	3
E. E. 145—Dynamo and Measurements Laboratory	3	E. E. 144—Electrical Engineering	4
E. E. 149—Electrical Measurements Theory	2	E. E. 146—Dynamo and Measurements Laboratory	3
E. E. 229—Engineering Thermo- dynamics	3	E. E. 150—Electrical Measurements Theory	2
Math. 215—Differential Equations	3	E. E. 230—Heat Power Engineering*	3
	18	Elective	1
			18

Senior Year

E. E. 203—Communication Engineering and Adv. Circuit Analysis	4	E. E. 204—Communication Engineering and Adv. Circuit Analysis	4
E. E. 242—Electrical Engineering	4	E. E. 244—Electrical Engineering	4
E. E. 245—Electrical Engineering Lab.	2	E. E. 246—Electrical Engineering Lab.	2
E. E. 291—Studies in Electrical Engineering	1	E. E. 292—Studies in Electrical Engineering	1
E. E. 235—Electrical Transmission of Power or		E. E. 248—Electrical Design	3
E. E. 271—Engineering Electronics	3	Eng. 114—Engineering English	2
Elective	4	Elective	2
	18		18

Suggested Electives:

C. E. 141—Hydraulics	3	Ec. 210—Transportation and Public Utility Problems	2
Ec. 209—Public Utilities	3	C. E. 126—Testing Laboratory	1
E. E. 101—Principles of Radio	3	C. E. 176—Contracts and Specifications	2
E. E. 133—Illuminating Engineering	2	C. E. 178—Engineering Economy	3
E. E. 211—Advanced Radio Laboratory	2	E. E. 232—Heat Power Laboratory	1
E. E. 225—Acoustics	3	Math. 204—Advanced Calculus	3
Phys. 225—Adv. Physics Laboratory	2-4	Phys. 226—Adv. Physics Laboratory	2-4

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Modern trends demand that engineers in industry be versed in the fundamentals of management as well as in the fundamentals of science. Industry expects its administrators to understand the problems of development, installation, and maintenance so that competition can be met intelligently and successfully.

*or electives.

The College of Applied Science and the College of Commerce have cooperated in offering a curriculum in industrial engineering with options in management and marketing. With the approval of the dean, however, the student may elect other options which consider the fundamentals of advertising, accounting, law, finance, and similar fields.

Freshman Year

See courses given in first paragraph of "Curricula in Engineering."

Sophomore Year

First Semester		Second Semester	
	Hours		Hours
C. E. 74—The Slide Rule	1	C. E. 110—Plane Surveying	3
C. E. 105—Descriptive Geometry	3	Ec. 102—Principles of Economics	3
Ec. 101—Principles of Economics	3	Ind. A. 126—Shop Engineering	2
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Math. 118—Integral Calculus	4
Math. 117—Differential Calculus	4	Phys. 114—General Physics	4
Phys. 113—General Physics	4	Phys. 115—Elementary Sound	1
P. W. 101—Sports or		P. W. 102—Sports or	
Mil. Sc. 101—Basic Infantry	1	Mil. Sc. 102—Basic Infantry	1
	<u>18</u>		<u>18</u>

Junior Year

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
C. E. 121—Applied Mechanics	3	C. E. 122—Applied Mechanics	2
C. E. 123—Materials of Construction	2	C. E. 124—Strength of Materials	3
Ec. 235—Labor Relations	3	C. E. 126—Testing Laboratory	1
E. E. 129—Circuits and Machinery	3	E. E. 130—Circuits and Machinery	3
Fin. 121—Business Finance	3	Eng. 114—Engineering English	2
Dram. A. 3—Public Speaking	2	Mkt. 155—Marketing Principles	3
	<u>19</u>		<u>17</u>

Senior Year

Ec. 212—Administration of Personnel	3	Mgt. 211—Industrial Management	3
E. E. 229—Engineering Thermodynamics	3	E. E. 230—Heat Power Engineering	3
Bus. L. 155—Business Law	3	Mkt. 226—Industrial Purchasing and Industrial Marketing	3
Stat. 203—Adv. Business Statistics	3	Stat. 172—Control of Business Oper- ations	2
Electives	6	Electives	7
	<u>18</u>		<u>18</u>

Management Option

Acct. 125—Intermediate Accounting	3	Acct. 224—Standard Costs and Budgets	3
Acct. 175—Cost Accounting	3	Bus. L. 175—Government and Business	2
		C. E. 178—Engineering Economy	3
		Ec. 238—Labor Legislation	2

Marketing Option

Advt. 155—Advertising Principles	3	Bus. L. 175—Government and Business	2
Bus. L. 205—Law of Marketing	2	H. Ec. 256—Economics of Consumption	3
Stat. 241—Business Cycles	3	Mkt. 158—Marketing Problems	3
		Mkt. 171—Principles of Personal Selling	2
		Mkt. 176—Sales Management	3

BACHELOR OF SCIENCE IN HOME ECONOMICS

The School of Home Economics attempts to integrate art and science for the improvement of home and family life, and to provide the means of economic independence in occupations related to activities of the home. There are four curricula in home economics, each of which includes at least 40 hours of home economics and supplementary courses which are required of students qualifying for the degree of Bachelor of Science in Home Economics.

The curriculum in general home economics is planned to develop an appreciation and an understanding of the activities and the relationships

of family life, to equip women for the efficient and successful administration of a home, and to provide training in home economics for those who wish to teach in junior or senior high schools, vocational schools, and adult education classes. The nursery school and home management house offer opportunities for experiences in the guidance of young children and the management aspects of home making. The seniors in home economics may participate in activities of the vocational educational program and qualify for certification to teach in vocational schools.

The curriculum for specialization in family relationships and child development is planned to provide training for home economics positions with social welfare agencies. The curriculum for specialization in foods and nutrition is planned for students who are interested in directing the foods service in hospitals, hotels, cafeterias, or college residence halls. This curriculum fulfills the requirements of the American Dietetic Association for student dietitians. Students who wish to become dietitians are advised to take a fifth year of apprentice training in one of the institutions approved by the American Dietetic Association. The curriculum for specialization in home economics in business is planned to provide a background for those who are interested in the business phases of home economics. It affords training for fashion and merchandising positions in the manufacturing and distributory divisions of the textiles and clothing industry, for consultants on home decoration problems, and for promotion services in connection with public utilities and manufacturers and retailers of household equipment.

Curriculum for course in general home economics:

Freshman Year	
First Semester	Hours
Chem. 1—General Chemistry* or	
Zool. 3—General Zoology -----	3-4
Eng. 1 or 3—English Composition -----	3
H. Ec. 1—Clothing Selection and Construction (3) or	
H. Ec. 21—Foods and Nutrition (3) or	
H. Ec. 51—Orientation in H. Ec. (2) ‡_2-3	2-3
P. W. 1-9—Physical Welfare -----	1
Soc. 1—General Sociology -----	3
Electives† -----	2-4
	16
Second Semester	Hours
Chem. 2—General Chemistry or	
Zool. 4—General Zoology -----	3-4
Eng. 2 or 4—English Composition -----	3
H. Ec. 1—Clothing Selection and Construction (3) or	
H. Ec. 21—Foods and Nutrition (3) or	
H. Ec. 51—Orientation in H. Ec. (2) ‡_2-3	2-3
P. W. 2-10—Physical Welfare -----	1
Ec. 1—Economic Development of U. S.—	2
Electives‡ -----	2-4
	16
Sophomore Year	
H. Ec. 1—Clothing Selection and Construction (3) or	
H. Ec. 21—Foods and Nutrition (3) or	
H. Ec. 51—Orientation in H. Ec. (2) ‡_2-3	2-3
H. Ec. 105—Household Equipment or	
H. Ec. 110—Textiles or	
H. Ec. 131—Home Planning -----	3
P. A. A. 101—Design and Composition. 2	2
P. W. 101-109—Physical Welfare -----	1
Psych. 1—General Psychology -----	3
Electives—See note -----	4-5
	16
H. Ec. 105—Household Equipment or	
H. Ec. 110—Textiles or	
H. Ec. 131—Home Planning -----	6
P. A. A. 102—Applied Design -----	3
P. W. 102-110—Physical Welfare -----	1
Electives—See note -----	6
	16

*Students who have not had chemistry in high school elect chemistry.

‡Electives determined by the University College requirements.

‡Select course not taken in the freshman year.

Junior Year

First Semester	Hours	Second Semester	Hours
H. Ec. 271—Child Development	2	H. Ec. 272—Child Development	2
H. Ec. 251—Home Management (2) and		H. Ec. 251—Home Management (2) and	
H. Ec. 253—Home Management Labora-		H. Ec. 253—Home Management Labora-	
tory (2) or		tory (2) or	
H. Ec. 227—Quantity Cookery (3)	3-4	H. Ec. 227—Quantity Cookery (3)	3-4
Zool. 141—Elementary Bacteriology	4		
Electives—See note	6-7	Electives—See note	9-10
	<hr/> 16		<hr/> 15

Senior Year

H. Ec. 256—Economics of Consumption or		H. Ec. 256—Economics of Consumption or	
H. Ec. 273—Family Relationships	3	H. Ec. 273—Family Relationships	3
H. Ec. 225—Dietetics or		H. Ec. 225—Dietetics or	
H. Ec. 216—Clothing Design and		H. Ec. 216—Clothing Design and	
Construction	3	Construction	3
Electives—See note	9	Electives—See note	9
	<hr/> 15		<hr/> 15

Note—Electives to be chosen according to the student's interest from the following:
 Home Economics and Education—see certification requirements
 Home Economics and Journalism—12 semester hours in the School of Journalism
 Home Economics and Social Welfare—16 semester hours in the department of sociology

Curriculum for specialization in family relationships and child development:

	Hours		Hours
H. Ec. 1—Clothing Selection and Construction	3	H. Ec. 225—Dietetics	3
H. Ec. 21—Foods and Nutrition	3	H. Ec. 241—Nutrition work with Children	2
H. Ec. 51—Orientation in H. Ec.	2	H. Ec. 251—Home Management	2
H. Ec. 105—Household Equipment	3	H. Ec. 253—Home Management Laboratory	2
H. Ec. 131—Home Planning	3	H. Ec. 256—Economics of Consumption	3
H. Ec. 200—Problems in H. Ec.	6-8	H. Ec. 271, 272—Child Development	4
		H. Ec. 273—Family Relationships	3

Supplementary courses:

Chem. 1-2—General Chemistry* or		Soc. 1—General Sociology or	
Zool. 3-4—General Zoology	6-8	Soc. 101—Principles of Sociology	3
Zool. 141—Elementary Bacteriology	4	Soc. 103—Social Change and Social Problems	3
Dram. A. 15—Voice and Diction	2	Soc. 239—Introduction to Case Work	2
Psych. 1—General Psychology	3	Soc. 243-244 or 245-246	4
Psych. 3—Child Psychology	3	Soc.—Electives	4
Ec.—Elective	3		

Students interested in supervision of children in institutions should elect Ed. 1, 2, 101, 171.

Curriculum for specialization in foods and nutrition:

H. Ec. 1—Clothing Selection and Construction	3	H. Ec. 225—Dietetics	3
H. Ec. 21—Foods and Nutrition	3	H. Ec. 227—Quantity Cookery	3
H. Ec. 51—Orientation in H. Ec.	2	H. Ec. 229—Nutrition in Disease	2
H. Ec. 105—Household Equipment	3	H. Ec. 228—Recent Developments in Foods and Nutrition	3
H. Ec. 110—Textiles	3	H. Ec. 242—Institutional Buying	3
H. Ec. 122—Economics of Foods	3	H. Ec. 248—Institutional Management	3
H. Ec. 131—Home Planning	3	H. Ec. 251—Home Management	2
H. Ec. 222—Experimental Cookery	3	H. Ec. 253—Home Management Laboratory	2
		H. Ec. 256—Economics of Consumption	3
		H. Ec. 271, 272—Child Development	4

Supplementary courses:

Acct. 81—Accounting Survey	2	Psych.—Elective	3
Chem. 1, 3, 113, 122	14	Soc.—Elective	3
Ec.—Elective	3	Zool. 125—Elements of Physiology	4
Ed.—Elective	3	Zool. 141—Elementary Bacteriology	4
P. A. A.—Elective	1-3		

*Students who have not had chemistry in high school elect chemistry.

Curriculum for specialization in home economics in business:

	Hours		Hours
H. Ec. 1—Clothing Selection and Construction	3	H. Ec. 255—Promotion and Demonstration Techniques	2
H. Ec. 21—Foods and Nutrition	3	H. Ec. 256—Economics of Consumption	3
H. Ec. 51—Orientation in H. Ec.	2	H. Ec. 271-272—Child Development	4
H. Ec. 105—Household Equipment	3	H. Ec. 251—Home Management	2
H. Ec. 110—Textiles	3	H. Ec. 253—Home Management Laboratory	2
H. Ec. 131—Home Planning	3	H. Ec. 273—Family Relationships	3
Supplementary courses:			
Chem. 1, 2—General Chemistry	8	Jour. 110—Writing for Publication	2
Dram. A. 15—Voice and Diction	2	Advt. 155—Advertising Principles	3
Ec. 101, 102—Principles of Economics	6	Mkt. 155—Marketing Principles	3
Soc.—Elective	3	Mkt. 201—Retailing	3
Psych. 1—General Psychology	3	Phil. 111—Business and Professional Ethics	2
Textiles and Clothing Option			
H. Ec. 211—Economics of Clothing	3	H. Ec. 218—Advanced Textiles	3
H. Ec. 212—Creative Textile Problems	2	P. A. A. 71—Sketching	3
H. Ec. 215—History of Costume and Textiles	2	P. A. A. 137-138—Costume Design	4
H. Ec. 216—Clothing Design and Construction	3	Mkt. 205—Principles of Fashion Merchandising	3
Household Equipment and Public Utility Option			
H. Ec. 122—Economics of Foods	3	P. A. A.—Elective	1
H. Ec. 222—Experimental Cookery	3	Phys. 5, 6—Introduction to Physics	8
H. Ec. 225—Dietetics	3	Ec. 209—Public Utilities	3
Chem. 113—Organic Chemistry	3	Zool. 141—Elementary Bacteriology	4
Home Planning and Decoration Option			
H. Ec. 211—Economics of Clothing	3	P. A. A. 45—Methods in Representation	2
H. Ec. 215—History of Costume and Textiles	2	P. A. A. 55—Elementary Architecture	2
H. Ec. 212—Creative Textile Problems	2	P. A. A. 114—Textile Design	3
P. A. A. 11, 12—Theory of Design	6	P. A. A. 171, 172—House Decoration	6
		C. E. 1—Mechanical Drawing	2

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Music, the School of Painting and Allied Arts, and the School of Dramatic Art. The curricula of the three schools in the college are designed to provide for a broad cultural education in the fine arts and for specialized activities in the different art fields.

Candidates for the degree in the College of Fine Arts complete the general graduation requirements which include a minimum of 124 semester hours with a point-hour ratio of 2.000. These requirements include the program of the University College, and four semester hours of physical welfare or military science.

The requirements for the degree of Bachelor of Fine Arts include a minimum of 32 semester hours for a major in (a) music, (b) painting and allied arts, or (c) dramatic art, and a minor of from 12 to 16 semester hours in each of the other schools. Electives may be added to the major or minor, used for the completion of other majors or minors, or used to meet the minimum requirements for a teaching certificate.

MAJOR FOR OTHER DEGREES. A student who desires the degree of Bachelor of Arts or the degree of Bachelor of Science in Education may major or minor in any one of the three schools and receive the degree

desired by complying with the requirements of the college which grants the degree. The College of Education has outlined specific requirements for teaching or supervising both elementary schools and high schools.

BACHELOR OF FINE ARTS IN MUSIC

The School of Music makes provisions for individual study in all branches of vocal and instrumental music with specific courses in basic principles. Opportunities for individual participation in student recitals are provided and also for ensemble experience in groups such as the University Choir, glee clubs, quartet, band, and orchestra.

The University College program should include:	Hours
Applied Music -----	2
Mus. 3-4—Ear Training -----	2
Mus. 23-24—Sight Singing -----	2

Students desiring the minimum of 32 semester hours for a major are permitted considerable latitude in the choice of courses, provided all prerequisites are met. Selections from the fields of music history, appreciation, theory, ensemble, and applied music are available.

If a student wishes to concentrate in some phase of applied music (voice, piano, organ, string or wind instruments), theory, composition, or conducting, it is usually necessary to include up to 56 semester hours in the major field.

Six hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts in Music. A required minor includes 12 to 16 semester hours in painting and allied arts and 12 to 16 semester hours in dramatic art.

Students in the College of Arts and Sciences wishing to establish a major in music should include at least 28 semester hours of work in this field. The director of the School of Music should be consulted as the adviser of the course. A minor of 16 semester hours of music may be taken by students of any other degree college.

SCHOOL MUSIC MAJOR. Students who desire to specialize in the field of school music are given the opportunity of preparing for the positions of special music teacher or music supervisor. In accord with the state requirements, the major may be either vocal or instrumental. The specific requirements leading to the degree of Bachelor of Science in Education are given under "College of Education."

BACHELOR OF FINE ARTS IN PAINTING AND ALLIED ARTS

The School of Painting and Allied Arts provides curricula for those interested in either general or specific training. Basic principles in both theory and practice are emphasized.

The major requirements amount to at least 32 semester hours in painting and allied arts. The minor requirements include 12 to 16 semester hours in music and 12 to 16 semester hours in dramatic art.

Major interests in painting and allied arts are possible in architectural design, commercial design, constructive design, costume design, decorative design, history, painting, and photography.

BACHELOR OF FINE ARTS IN DRAMATIC ART

The curriculum of the School of Dramatic Art includes courses in dramatic art and speech. Candidates for the Bachelor of Fine Arts degree should emphasize work in dramatic art, supplemented with some work in speech. However, the curriculum is flexible and purposes to meet the needs and ability of the individual student.

Requirements: 12 semester hours in English beyond the University College requirement; Dram. A. 1—Speech Survey, and either Dram. A. 3—Public Speaking, or Dram. A. 15—Voice and Diction, in the University College program.

THE SPEECH CLINIC. The School of Dramatic Art maintains a speech clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial treatment for cases of a functional nature is provided free of charge under the direction of a competent speech pathologist.

THE GRADUATE COLLEGE

DEGREES. The Graduate College offers work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts. In addition to the curricula offered in the academic and professional fields, the college offers the degree of Master of Arts or Master of Science in supervision and guidance of student life, a course designed for advisers of girls and deans of women.

ADMISSION. The Graduate College is open to students who hold a bachelor's degree from an accredited college or university. Application for admission should be made on a blank obtainable from the office of the registrar and must be accompanied by an official transcript of the applicant's college record, except in the case of a graduate of Ohio University. These documents should be filed with the registrar at least a month before the opening of the term in which the applicant begins his studies. A student who qualifies for admission receives a permit to register. He then confers with the dean of the Graduate College who counsels with him regarding his plans for graduate study and appoints faculty advisers in the major and minor fields. The student's outline of graduate study is made by the advisers in conference with the student. A student may be registered in the Graduate College without becoming a candidate for a graduate degree. Therefore, admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

A student who is qualified to enter the Graduate College but who pursues courses with no regard to a major or a minor and with no

thought of qualifying for a master's degree is classified as a special student.

CREDIT AND RESIDENCE. At least 32 semester hours of credit are required for the master's degree. A maximum of eight semester hours of credit is accepted by transfer from approved institutions which offer the master's degree. Credit for courses taken by correspondence is not accepted toward the degree. A maximum of six semester hours taken in extension classes or in the Portsmouth and the Zanesville Centers is accepted toward the degree, provided the courses are conducted by instructors who regularly teach them on the campus. A graduate student who is employed on full time is limited to three semester hours in a semester or a summer session. Credit is not allowed for a graduate course unless all of the work of the course, including the final examination, is completed and the final grade reported to the office of the registrar within one year after the official ending of the course.

All work submitted for graduate credit shall be of high quality. The minimum standard acceptable is a point-hour ratio of 3.000 in all courses attempted for graduate credit, with no grade below C, and not more than twenty per cent of the work accepted with a grade of C.

After securing a bachelor's degree, an adequately prepared student may be able to complete the work for the master's degree in one year of two semesters, in four eight-week summer sessions, or in a minimum of three eight-week summer sessions and two post-summer sessions. The minimum residence requirement is 30 weeks. A transfer student is required to have a minimum residence at Ohio University of one semester and one eight-week summer session, or three eight-week summer sessions, or at least twenty-four weeks. A student who takes courses for graduate credit in extension classes or in the Portsmouth and the Zanesville Centers is required to have a minimum residence at Ohio University of one semester and an eight-week summer session, or three eight-week summer sessions and a three-week post session, or at last twenty-six weeks.

The maximum time allowed between the date when a student is admitted to the Graduate College and begins graduate study and the date when the requirements for the degree are completed is six years. Students who do not complete their requirements for the degree within the six-year period are obliged to have their graduate outlines reviewed and revised in the light of current catalog requirements.

COURSES FOR GRADUATE CREDIT. Credit toward a graduate degree is given for the completion of courses designed for graduate students (numbered 301-399) and courses designed for advanced undergraduates and graduates (numbered 201-299), provided the courses are included in the student's program of study.

FEES. The fees for graduate students are the same as those for undergraduates. See "Fees and Deposits" for a full statement of fees.

PROGRAM OF STUDY. A student's program of study is divided between subjects in the major field and subjects in the minor field, unless a program otherwise arranged is approved by the graduate council. Since graduate work implies specialization, a minimum of 18 semester hours of undergraduate credit is presupposed before a student can pursue his major subject for graduate credit. Six to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work for a minor in the subject. The program in the major field varies from 12 to 20 semester hours exclusive of the thesis, for which from four to eight semester hours are allowed. The minor field in such cases makes up the remainder of the 32 semester hours required for the degree, and is selected from one or two fields of instruction closely related to the major field. However, all of the work for the master's degree may be done in one school or field on recommendation of the adviser and with the approval of the graduate council.

ADMISSION TO CANDIDACY. In order to be admitted to candidacy for the master's degree, a student must show his ability and fitness to pursue graduate work in his chosen field. This may be done by completing with satisfactory grades a minimum of 12 semester hours of the program of graduate study as outlined. The further conditions of admission to candidacy are a program of graduate study and a thesis subject, acceptable to the major adviser and approved by the dean and the graduate council. Application for candidacy should be made on a form obtainable at the office of the dean and on a date not later than four months—two months in the summer session—before the degree is to be conferred.

THESIS AND EXAMINATION. As partial fulfillment of the requirements for the master's degree, each candidate shall prepare a thesis under the direction of his major adviser on a subject approved by him and the graduate council. Credit on the thesis varies within a range of four to eight semester hours, the exact amount being determined by the major adviser. Furthermore, the candidate shall pass creditably an oral examination on a thesis approved by the major adviser and on the course work in his major and minor fields. The oral examination, approximately two hours in length, is conducted by a committee appointed by the dean, consisting of a representative of the graduate council and members of the staffs of the schools, departments, or divisions in which the candidate has done his work.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express the results of his research and study. The thesis may vary in character from an extended essay representing critical reading, independent study, and the assimilation and interpretation of a considerable body of facts, to an account, sometimes more brief, describing a research project which makes some contribution to knowledge. With the approval of the graduate council, the thesis requirement may be met by the presentation of the results of creative research or activity together with a written essay

indicating the purpose, procedure, bibliography, and problems involved in the work. For students who desire to avail themselves of the instruction, a course on thesis writing is offered by the department of English.

After the thesis is approved, and not later than five days before commencement, the candidate files two unbound copies of the thesis with the university librarian and one bound copy of the thesis with the dean of the Graduate College, in accordance with directions obtained from the office of the dean. The two copies filed with the university librarian are bound and retained in the university library, and the copy filed with the dean is presented to the school or department in which the work has been done.

GRADUATE FELLOWSHIPS AND ASSISTANTSHIPS

Ohio University usually requires the services of 25 to 35 graduate teaching fellows and graduate assistants. During the present academic year, 20 students are pursuing graduate work under fellowship appointments and 13, under appointments as graduate assistants. The same number probably will be required in the academic year 1941-1942. Fellows and graduate assistants are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

A fellowship carries an annual stipend of \$300 with a waiver of the general registration fee. There is no tuition fee. A graduate assistantship carries a stipend of \$300 with no waiver of the general registration fee. A teaching fellow is required to give one half of his time to teaching or laboratory supervision, or both, in the department of his major or minor field, and is expected to carry one half of the normal load of graduate work. The graduate assistant is required to give 20 to 24 hours of service weekly to the department of his major or minor field, and is permitted to carry eight to ten semester hours of graduate work.

Graduate teaching fellowships and graduate assistantships are usually available to qualified students in the following fields: botany, chemistry, commerce, dramatic art and speech, education, electrical engineering, English, home economics, industrial arts, mathematics, painting and allied arts, personnel divisions of the office of the dean of men and the office of the dean of women, physical welfare, physics, psychology, Romance languages, and zoology.

Application for a graduate teaching fellowship or a graduate assistantship for the academic year 1941-1942 must be filed with the dean of the Graduate College by March 1, 1941. Application blanks are obtained from the office of the dean.

SPECIAL APPOINTMENTS FOR WOMEN. Four positions are open for graduate student deans in 1941-1942. The appointees receive a stipend of \$300 each, with exemption from the general registration fee, and are expected to give one half of their time to assisting the dean of women, and to carry one half of the normal load of graduate work. Under this plan two academic years are required to complete the work for the

master's degree unless the student registers for graduate study in the summer session preceding and the summer session following the fellowship appointment, in which case the time can be abbreviated. Applicants should have completed not fewer than 18 semester hours in the social sciences. Application may be made directly to the dean of women.

One appointment as graduate student dietitian is open in 1941-1942 to a college graduate who has majored in home economics. This position is intended primarily for a person interested in institutional management, but such an assistant may major in any field. The stipend consists of board, room, and \$385, with exemption from the general registration fee. The student is expected to give about six hours of service daily and to carry one half of the normal load of graduate work. Application may be made to the director of dining halls.

Fellowships and other appointments are awarded about March 15.

THE DIVISION OF PHYSICAL WELFARE

The Division of Physical Welfare provides a planned program of physical activity for all students of the university. Two well-equipped gymnasiums, a swimming pool, play fields, tennis courts, and facilities and equipment for sports and intramural athletics are maintained.

The required program of four semester hours of physical activities for men includes participation in at least four of the following activities: touch football, tennis, archery, basketball, tumbling, fencing, volleyball, boxing, wrestling, handball, softball, golf, track and field, cross country, folk dancing, and badminton. The program for women is on an elective basis and the four semester hours may be chosen from the following: hockey, soccer, basketball, tennis, volleyball, archery, softball, badminton, swimming, folk dancing, modern dancing, tap dancing, hiking, golf, bowling, and fencing. Men and women students who for any reason are unable to participate in the activity classes are given individual instruction in special classes.

The division offers an extensive program of sports and sponsors a recreational hobby program. Instruction is given to interested groups in extra-curricular classes in the activities desired, thereby providing an opportunity for the less proficient students to develop skills and master game techniques.

By fulfilling the requirements, students who wish to major in the Division of Physical Welfare may apply for the following degrees: Bachelor of Science, Bachelor of Arts, or Bachelor of Science in Education.

A major in physical education prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leaders for industrial

concerns and municipalities. The university has been successful in placing graduates who are well qualified in these fields.

All students majoring in physical welfare are required to purchase the uniform prescribed by the Division of Physical Welfare.

The following courses constitute a major in physical welfare:

MEN

Freshman Year

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
P. W. 1—Sports	1	P. W. 6—Physical Activities	1
P. W. 22—Personal and Public Health..	3	Zool. 4—General Zoology	3
Zool. 3—General Zoology	3		

Sophomore Year

P. W. 121—Physical Activities	2	P. W. 122—Physical Activities	2
P. W. 125—Scouting	1	P. W. 152—Kinesiology	2
Zool. 115—Elements of Anatomy	3	Ed. 167h—Teaching of Health	2

Junior Year

P. W. 123—Physical Activities	1	P. W. 124—Physical Activities	1
P. W. 127—First Aid	2	P. W. 153—Nature and Function of Play	2
P. W. 133—Theory and Practice of		Ed. 167d—Coaching of Baseball.....	1
Adapted Activities	2	Ed. 167e—Coaching of Basketball.....	2
Ed. 167f—Coaching of Football.....	2	Ed. 167t—Coaching of Track	1

Senior Year

P. W. 171—Physical Activities	1	P. W. 204—Principles of Physical	
P. W. 252—School Health Program.....	3	Welfare	2
Zool. 125—Elements of Physiology.....	4	P. W. 206—Organization and Adminis-	
		tration of Physical Welfare	2
		P. W. 250—Community Recreation	2

WOMEN

Freshman Year

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
P. W. 1—Sports or		P. W. 2—Sports or	
P. W. 6—Elementary Tap Dancing or		P. W. 4—Intermediate Swimming or	
P. W. 7—Modern Dance	1	P. W. 8—Modern Dance	1
P. W. 22—Personal and Public Health..	3	Zool. 4—General Zoology	3
Zool. 3—General Zoology	3		

Sophomore Year

P. W. 121—Physical Activities	2	P. W. 122—Physical Activities	2
P. W. 127—First Aid	2	P. W. 152—Kinesiology	2
Zool. 115—Elements of Anatomy	3	Ed. 167h—Teaching of Health	2

Junior Year

P. W. 131—Mass Games	1	P. W. 132—Physical Welfare Practice..	1
P. W. 252—School Health Program.....	3	P. W. 133—Theory of Adapted Activities	2
Ed. 167a—Teaching of Coaching	2	Ed. 167b—Teaching of Coaching	2

Senior Year

P. W. 167n—Teaching of Rhythmic		P. W. 167k—Teaching of Physical Wel-	
Activities	1	fare in Junior and Senior	
P. W. 204—Principles of Physical		High Schools	2
Welfare	2	P. W. 167o—Teaching of Rhythmic	
Zool. 125—Elements of Physiology.....	4	Activities	1
		P. W. 206—Organization and Adminis-	
		tration of Physical Welfare	2
		P. W. 250—Community Recreation	2

The following courses are suggested to meet the 16 semester hours required by the State of Ohio Department of Education for a teaching subject in physical education:

	Hours
1. Principles and Organization -----	4
Men and Women	
P. W. 153—Nature and Function of Play (2)	
P. W. 167k—Teaching of Physical Welfare in Jr. & Sr. H. S. (2)	
P. W. 204—Principles of Physical Welfare (2)	
P. W. 205—History of Physical Education (2)	
P. W. 206—Organization and Administration of Physical Welfare (2)	
2. Theory and Practice -----	4
Men	
P. W. 6—Physical Activities (1)	
P. W. 121—Physical Activities (2)	
P. W. 122—Physical Activities (2)	
P. W. 123—Physical Activities (1)	
P. W. 124—Physical Activities (1)	
P. W. 171—Physical Activities (1)	
Women	
P. W. 6—Elementary Tap Dancing (1)	
P. W. 7, 8—Modern Dance (2)	
P. W. 15, 16—Folk and National Dancing (1)	
P. W. 104—Intermediate Swimming (1)	
P. W. 113—Hiking (1)	
P. W. 121, 122—Physical Activities (2-6)	
P. W. 131—Mass Games (1)	
P. W. 132—Physical Welfare Practice (1)	
Ed. 167n, 167o—Teaching of Rhythmic Activities (2)	
3. Theory and Coaching -----	4
Men	
Ed. 167d—Coaching of Baseball (1)	
Ed. 167e—Coaching of Basketball (2)	
Ed. 167f—Coaching of Football (2)	
Ed. 167t—Coaching of Track (1)	
P. W. 181—Intramural Athletics (2)	
Women	
Ed. 167a—Teaching of Coaching (2)	
Ed. 167b—Teaching of Coaching (2)	
4. Health Education -----	4
Men and Women	
P. W. 22—Personal and Public Health (3)	
P. W. 252—School Health Program (3)	
Ed. 167h—Teaching of Health (2)	

THE DIVISION OF MILITARY SCIENCE AND TACTICS

The Reserve Officers' Training Corps was established under the National Defense Act of June 4, 1920. The Board of Trustees of Ohio University in 1935 entered into an agreement with the federal government for the establishment of a voluntary R. O. T. C. unit. Under this agreement the university maintains an elective course of military training for men students who are physically qualified.

A student has the choice between two years of military training and the required first and second-year courses in the Division of Physical Welfare. Those who complete the four years of military training are eligible, upon graduation, for a commission in the Officers' Reserve Corps of the United States Army. The first two years carry one semester hour of credit each semester; and the last two years, three semester hours each semester.

Under the terms of the agreement with the federal government, the two-year course once entered upon becomes a prerequisite for graduation. In an exceptional case and for a sufficient reason, a student, upon recommendation of the professor of military science and tactics, may be dis-

charged by the president of the university from the Reserve Officers' Training Corps and from the necessity of completing the course as a prerequisite for graduation.

All necessary training equipment and the principal articles of the uniform are issued to basic course students by the federal government without cost. Articles so issued remain the property of the government and must be returned. A personal equipment fee of \$4, which is assessed at the beginning of the first semester for the year's course, is required of students enrolling for Mil. Sc. 1—Basic Infantry, to cover the cost of essential items of equipment not issued free.

Upon entering the advanced course, a student receives a money allowance for uniform, which last year amounted to \$29. Upon entering the second year of the advanced course, he receives a uniform maintenance allowance, which last year amounted to \$7. In addition, "commutation of rations" is paid the advanced course student quarterly. Last year this amounted to \$23 each quarter.

In addition to the courses pursued at the university, all students who satisfactorily complete the first year of the advanced course attend the six-week summer training camp, generally held at Fort Knox, Kentucky, for the Reserve Officers' Training Corps. This attendance involves no expense to the student. He is provided with uniform, equipment, rations, and shelter and is paid for transportation to the camp and return to his home, at a rate which last year was five cents a mile. He is also paid 70 cents a day while attending camp. The university allows three semester hours of credit for the camp attendance.

After the completion of the second-year basic course, applicants for the advanced course, within a quota allotted by the War Department, are carefully selected by the professor of military science and tactics on the basis of military and scholastic merit. A general scholastic average of C (2.000) is required for the selection.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes and correspondence study.

EXTENSION CLASSES. Any community in which a group of persons agrees upon a course which it desires to study will be supplied with an instructor from the university faculty. The size of the group necessary to secure an instructor depends upon the distance of the community from the campus. The university provides the regular instructor of the course or a member of the department in which the course is offered. The instructor meets the class once a week. The number and length of the class periods are determined by the amount of credit allowed for the course.

CLASSES FOR COLLEGE FRESHMEN. The Extension Division will offer a program of evening college classes at the freshman level in a com-

munity, provided the local board of education will apply for it and will agree to cooperate, and provided the student enrollment is sufficiently large to justify the effort. Such a program is in operation now at Portsmouth and Zanesville, Ohio. The program is designed to meet the needs of high school graduates who find it inconvenient to go away to college. Students who attend evening college classes full time for two semesters have the opportunity of earning enough credits to have sophomore rank at Ohio University.

CORRESPONDENCE STUDY. Correspondence study extends the privilege of university training even more widely than the extension classes. A wide variety of subjects in over 30 departments is offered and is taught by members of the regular faculty. The courses appeal to any person who wishes to engage in systematic study during his spare time. Courses may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

ADMISSION. A student who has been enrolled in any division of the university and who is in good standing may register in an extension class or in correspondence study. A student who has not previously enrolled at Ohio University is required to present to the registrar of the university an application for admission and the required credentials. A student who intends to become a candidate for graduation at Ohio University must present a transcript of all work done at other colleges and universities. A student who is not planning to graduate from Ohio University is not asked to present a transcript of credits from another college, but is required to present a statement of good standing, of honorable dismissal, or of graduation from the last school attended. A person who has never enrolled in any college or university must present a transcript of high school credits. A person who has not completed the minimum entrance requirements but is at least 21 years old may enroll for any course for which his preparation qualifies him.

CREDIT. In extension classes and in correspondence study a student may earn as many as 40 semester hours toward the requirements for a bachelor's degree.

A graduate student may earn, under approved conditions, six semester hours of extension class credit to apply toward a master's degree.

Undergraduate students who are employed full time are limited to a registration of six semester hours each semester. Graduate students who are employed full time are limited to three semester hours each semester.

RECOGNITION. In 1931, Ohio University was admitted to membership in the National University Extension Association. This association is made up of over 50 of the recognized colleges and universities throughout the country which maintain divisions of university extension. The N. U. E. A. promotes standards and upholds them by strict procedures for the admission of colleges and universities to membership.

BLANKS. Applications for admission may be secured from the office of the registrar or from the director of the Extension Division. Registration blanks for the extension classes may be obtained from the instructor at the time the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University.

THE PORTSMOUTH AND ZANESVILLE CENTERS

The Ohio University Extension Division, in cooperation with the Boards of Education of the Portsmouth and the Zanesville City School Districts, offers an evening college program in the cities of Portsmouth and Zanesville, Ohio. This program was inaugurated during the fall of 1938-1939 at Portsmouth, and in 1939-1940 at Zanesville, and is designed to meet the needs of recent graduates of high schools who do not find it possible to go away to college. However, others who are employed part time or full time may also enroll in the classes of these centers.

Beginning September 1, 1941, the Portsmouth and Zanesville centers will change from the residence-center basis to the extension-center basis according to the following procedure:

1. Students registered prior to September, 1941, at either the Portsmouth or Zanesville center under the residence plan will be permitted to register during 1941-1942 on the residence basis, provided the total residence credits, or the combined residence and extension credits, do not exceed 64 semester hours.
2. New students, that is those who register at either Portsmouth or Zanesville during 1941-1942 for the first time, can register for extension credit only, and are subject to the 40-semester-hour extension limitation.
3. All credits earned at either Portsmouth or Zanesville during 1942-1943 and thereafter will be classified as extension credits.

THE SUMMER SESSIONS

The work of the university in the summer months is organized on a two-session plan: (a) the first session of eight weeks length, and (b) the post session of three weeks length. These sessions are integral parts of the university year with requirements and standards of academic accomplishment similar to the other sessions. The student load is restricted and the number of class meetings increased in view of the shortened sessions. Credit attained is fully recognized and may be counted toward the fulfillment of requirements for the various degrees and diplomas which the university grants.

The post session is organized especially to make it possible for advanced undergraduate and graduate students to study intensively. The purpose is to offer opportunity for flexibility in study procedures with a view to developing greater independence on the part of qualified students.

The programs of studies in certain divisions of the university are expanded in order to better satisfy the needs of teachers and other educators. Visiting lecturers from other colleges and universities and from positions in the State of Ohio departments augment the faculties in these divisions. The university makes a special effort to offer courses required for certification and advancement in teaching in the elementary and secondary schools of Ohio and adjoining states.

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is designed. The numbers are grouped as follows:

- 1- 99 for University College students
- 100-199 for undergraduate students
- 200-299 for advanced undergraduate and graduate students.
These courses are not open to sophomores even though they have fulfilled the prerequisites for the courses.
- 300-399 for graduate students

In general, an odd number indicates a course given in the first semester or in both first and second semesters; an even number, a course given in the second semester. An exception occurs in the numbers used for the teaching technique courses.

Two numbers at the beginning of a course indicate a year course. A hyphen between the numbers indicates that the course is a continuous year course; that is, the first semester course is a prerequisite for the second semester. A comma between the numbers indicates that although the course is a year course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number in parentheses. In a year course, this number refers to credit for a semester. A course with one semester hour credit, (1), is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. A course carrying a variable credit, for example (4-8), indicates the minimum and maximum amount of credit allowed for the course. A student may enroll for the course any number of times for any number of semester hours, provided the total registration for the course does not exceed the maximum credit indicated. Exceptions: in Applied Music the variable credit refers to the amount of credit for which a student may enroll during a semester. In the summer session bulletin, the amount in parentheses refers to the minimum and maximum number of semester hours for which a student may register during the summer session. The amount, (4-8), indicated above, therefore appears in the summer session bulletin as (1-8).

INSTRUCTORS. The instructors in a department are arranged according to priority of service within the respective ranks.

FEE. When a course requires a fee, the amount is stated in the description of the course. The fee is usually determined by the number of semester hours of credit at the rate of \$1 for each semester hour. For a year course, the fee is stated for a semester.

COURSES OF INSTRUCTION

ACCOUNTING—See Commerce

ADVERTISING—See Commerce

AGRICULTURE

Professors Copeland and Wiggin
Instructor Henderson

The major requirement in agriculture for the A. B. or B. S. degree is a minimum of 36 semester hours distributed as follows: Agr. 1, 3, 4, 102 (6); Agr. 103, 109, 116, 121 (9); Agr. electives, or Chem. 1-2 or 3-4, or Bot. 1, 2 or 101, 102 (3-8); Agr. 104, 127, 135, 141, 142 (9); Agr. 111, 131, 132, 143, 144 (9-10).

1. GENERAL AGRICULTURE (3) Wiggin

Planned to meet the needs of those preparing to teach agriculture and of those interested in the practical applications of the problems of general agriculture. 2 lec. and 2 lab. Fee, \$3.

3.4. FORESTRY (2) Copeland

Ways and means of identification and classification of trees and shrubs. A study of vernaltion, periods of blooming, and seed germination. Fee, \$2.

102. VEGETABLE GARDENING (3) Wiggin

Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3.

103. FRUIT GROWING (1942-1943) (3) Wiggin

The selection of an orchard location and the study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, judging, storing, and marketing of tree fruits. 2 lec. and 2 lab. Fee, \$3.

104. SMALL FRUITS (1942-1943) (3) Wiggin

A study of fruits commonly grown in Ohio. 2 lec. and 2 lab. Fee, \$3.

109. LANDSCAPE GARDENING (3) Wiggin

The principles of landscape gardening as applied to home grounds, civic improvement, and the culture of lawns, ornamental flowers, and shrubs. 2 lec. and 2 lab. Fee, \$3.

111. RURAL ECONOMICS (3) Copeland

A study of theories relating to farm problems of wages, rent, labor, land values, farm management, and marketing.

115. SOILS AND FERTILIZERS (3) Wiggin

The origin, types, physical properties, and distribution of soils, and their relation to crop production. Stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. 2 lec. and 2 lab. Fee, \$3.

116. FIELD CROPS (3) Henderson

A general course in the principles of plant growth with emphasis on the use of important cereal grass, forage, and root crops. 2 lec. and 2 lab. Fee, \$3.

121. TYPES AND BREEDS OF FARM ANIMALS (1942-1943) (3) Henderson

A study of types and breeds of farm animals: their history, development, breeding, handling, and general management. Principles of judging. 2 lec. and 2 lab. Fee, \$3.

124. GENERAL DAIRYING (1942-1943) (3) Henderson

The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3.

127. TYPES, BREEDS, AND MANAGEMENT OF POULTRY (3) Henderson

The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3.

131, 132. FLORICULTURE AND GREENHOUSE MANAGEMENT (2) Wiggin

A study of important cut-flower and pot-plant crops grown in greenhouses, the construction and management of greenhouses; flower store management and floral designing. 2 lec. and 2 lab. Fee, \$2.

135. FARM MANAGEMENT (3) Copeland

The application of problems of rent, wages, labor, land values, marketing, and various phases of farm efficiency.

141, 142. EVOLUTION AND HEREDITY (3) Copeland

A consideration of the prominent theories relating to environment, evolution, and inheritance.

143, 144. GENETICS (3) Copeland

Inheritance, environment, and other factors relating to variations, mutations, and changes leading to the origin of new races and varieties of plants or animals.

146. EUGENICS (2) Copeland

Problems of inheritance and environmental factors that relate to race betterment.

168a. TEACHING OF AGRICULTURE (3) Copeland

(Same as Ed. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures. Prereq., 8 hrs. and permission.

- 220. PLANT GROWTH** (3-5) Wiggins
 A course in the advanced phases of plant growth dealing with such phenomena as tropism, adaptations, periodicity, physical and chemical responses, and correlations. Prereq., 1 and 116. Fee, \$1 for each credit hour.
- 222. AGRICULTURAL PROBLEMS** (3-5) Wiggins
 Designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field, with an accompanying survey of available literature. 1 lec. and 4-8 lab. Prereq., 1 and 116. Fee, \$1 for each credit hour.
- 226. FOREST SURVEY** (3-5) Copeland
 A field-laboratory study of special topics selected from: forest management, forest technic, natural and artificial regeneration of woodlots, locations and habitats of trees, forests and erosion, forestry, and permanent agriculture. 6-10 lab. Prereq., 3, 4, and 6 hrs. botany, or permission. Fee, \$1 for each credit hour.
- 381. RESEARCH IN AGRICULTURE** (3-10) Copeland
 Problems for investigation confined to conservation of natural resources of the farm, domestication of wild plants, and rural economics. 6-12 lab. or field. Prereq., 1, 3, 4, and 6 hrs. botany, or permission. Fee, \$1 for each credit hour.

ARCHAEOLOGY AND ANTIQUITIES

A major or a minor may be completed in this field by joining the courses described here with others elected from the list of "additional courses" which appears below.

- 101. INTRODUCTION TO ARCHAEOLOGY** (3) Hill, Taylor
 The history of the development of archaeology from its earlier stages to its present status of dignity and scientific method. Methods and techniques of archaeology, its aims and purposes, the general types or archaeological work and excavation with emphasis on some of the more important sites.
- 202. THE ARCHAEOLOGY OF THE MEDITERRANEAN AREA** (3) Hill
 Designed to provide a comprehensive appreciation and understanding of the archaeological activities in this area. The archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean civilization. The archaeology of Greece and the Aegean islands, and to a lesser extent the archaeological remains of the Roman period. Prereq., 11 hrs. foreign language or 8 hrs. history and antiquities.

Additional courses:

- Ed. 250—The History of Education
 Eng. 143—Comparative Literature
 Geol. 126—Historical Geology
 Geol. 240—Paleontology*

*This and other courses starred are more specifically archaeological.

- Gk. 55, 56—Contributions of Greek Civilization
 Gk. 114—Greek Epic in English
 Gk. 211—Greek Drama in English
 Hist. 112—History of Greece
 Hist. 113—History of Rome
 Lat. 229—Development of Roman Culture
 Lat. 231—The Life of the Romans*
 P. A. A. 21—History of the Space Arts*
 Phil. 201—History of Ancient and Medieval Philosophy
 Soc. 125—Cultural Anthropology*

ART—See Painting and Allied Arts

ASTRONOMY—See Mathematics and Astronomy

ATHLETICS-COACHING—See Education and Physical Welfare

- Associate Professors Don C. Peden,
 head coach of football and baseball;
 William J. Trautwein, head coach of basketball
 Assistant Professor William H. Herbert, head coach of track
 Instructors Harold E. Wise, assistant coach
 of football, basketball, and baseball;
 Russell J. Crane, assistant coach of football and track

BOTANY

- Professor Matheny
 Associate Professor Boetticher
 Instructors Vermillion, Blickle

The major requirement in botany for the A. B. degree is a minimum of 24 semester hours; for the B. S. degree, 36 semester hours. Bot. 1, 2 or 101, 102 required; the remaining hours may be selected from the following: Bot. 203, 204; 205, 206; 207, 208; 209, 210; 215, 216; 221, 222; 227; 229; and 281.

Students who wish to prepare for service in federal or state conservation projects, or for nature guiding in state, national, or municipal parks, or for technical pursuits in the fields of plant pathology, algology, or botanical research are advised to confer with the chairman of the department and to select from the following courses: Bot. 1, 2 or 101, 102; 203, 204; 205, 206; 207, 208; 215, 216; 221, 222; 227, and 229.

1, 2. **FRESHMAN BOTANY** (3) Boetticher, Vermillion, Blickle
 A general survey of the field of botany. 2 lec. and 2 lab. Fee, \$3.

101, 102. **GENERAL BOTANY** (3) Matheny, Boetticher
 A course in systematic botany for advanced students beginning the subject. Not open to those who have credit in Bot. 1, 2. 2 lec. and 2 lab. Fee, \$3.

*This and other courses starred are more specifically archaeological.

107. LOCAL FLORA (3) Boetticher
A course to familiarize the student with the local flora. Trips are conducted to nearby points of botanical interest. 2 lec. and 2 lab. Fee, \$3.
- 111, 112. ECONOMIC BOTANY (3) Vermillion
A study of the origin, uses, and economic importance of plants and plant products, and the application of botany to modern industrial life. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
131. THE SCHOOL MUSEUM (2) Matheny
A study of the use, organization, and care of the school museum. Practice in the university museum.
- 133, 134. NATURE STUDY (3) Matheny
A course in which the student is introduced to a better understanding and appreciation of the living things in nature about him. 2 lec. and 2 lab. Fee, \$3.
- 168b. TEACHING OF BOTANY (2) Matheny
(Same as Ed. 168b) A review of the various methods now employed, followed by actual practice in field-work, laboratory procedures, and lectures. Prereq., 1 yr. of botany or of zoology.
- 168g. TEACHING OF GENERAL SCIENCE (2) Matheny
(Same as Ed. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also, a review of many science texts now in use. Prereq., 1 yr. of science.
- 170, 171. PLANT MORPHOLOGY (4) Blicke
A course dealing with the form of plants and their parts, large and small, external and internal; and with structure, the relations of parts to one another and to the whole. Especially suited to sophomores and upperclassmen. 2 lec. and 4 lab. Prereq., 1, 2 or 101, 102. Fee, \$4.
172. PLANT ANATOMY (Not offered in 1941-1942) (3) Blicke
A course designed to embody a comprehensive treatment of the fundamental facts and aspects of basic plant anatomy and histology exclusive of morphological theory. Observation of cellular elements, tissues, and structures are paramount. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
- 203, 204. PLANT ECOLOGY (3) Matheny
A study of plants in relation to their environment. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
- 205, 206. PLANT PHYSIOLOGY (4) Blicke
The physiology of absorption, rise of sap, transpiration, food synthesis, translocation, respiration, fermentation, waste products, and growth. 2 lec. and 4 lab. Prereq., 1, 2 or 101, 102, and a year of chemistry in high school or college. Fee, lab. \$4, breakage \$4.

- 207, 208. **MYCOLOGY** (3) Boetticher
A general survey of fungi. The structural characteristics of the various groups are studied. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
- 209, 210. **PLANT MICROTECHNIC** (3) Boetticher
The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the camera lucida, micrometers, and photomicrographic practices. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
212. **PALEOBOTANY** (Not offered in 1941-1942) (3) Blicke
A field-laboratory study of fossil plants, including investigation of impression fossils, mumifications, and petrifications, employing modern techniques. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
- 215, 216. **TAXONOMY OF VASCULAR PLANTS** (3) Boetticher
The phylogeny of pteridophytes and gymnosperms with special attention to floral structures and organography, and the taxonomy of monocotyls and dicotyls. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
- 221, 222. **PLANT PATHOLOGY** (3) Vermillion
A course dealing with the nature, cause, and control of plant diseases. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
227. **FRESHWATER ALGAE** (3) Matheny
The structure, classification, and environmental relations of freshwater algae. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.
229. **FIELD BOTANY** (Post summer session only) (3) Matheny
A lake-laboratory course at Buckeye Lake. A study of about 300 species of plants representing more than 60 families found in and around the lake. Opportunities for studies and research in ecology and taxonomy. Prereq., 1, 2 or 101, 102. Fee, \$3.
281. **RESEARCH IN BOTANY** (1-6) The staff
Prereq., 20 hours. Fee, \$1 for each credit hour.
391. **SEMINAR IN BOTANY** (1-4) Matheny
Prereq., 15 hrs. and permission.
395. **THESIS** (4-8) The staff
Prereq., permission.

BUSINESS LAW—See Commerce

CHEMISTRY

Professors Morton, Dunlap
Associate Professors Gullum, Clippinger
Assistant Professor Eblin

The major requirement in chemistry for the A. B. or B. S. degree is a minimum of 36 semester hours including Chem. 1-2 or 3-4, 105, 106, 109-110, 115-116, 119, and 213-214.

Students who plan to enter the field of chemical industry are advised

to add the following to the above requirements: Chem. 120 and approved electives (14-17); Ec. 102; Geol. 125; Math. 118, 125; Phil. 109; Phys. 114 and approved electives.

1-2. GENERAL CHEMISTRY (4) Morton, Gullum, Eblin
3 lec. and 3 or 4 lab. Offered both semesters. Fee, lab. \$4, breakage \$3.

3-4. GENERAL CHEMISTRY (4) Clippinger, Eblin
A course in general inorganic chemistry with the laboratory work in part of the first semester and all of the second semester devoted to qualitative analysis. 3 lec. and 3 lab. Prereq., high school chemistry. Fee, lab. \$4, breakage \$3.

105, 106. QUALITATIVE ANALYSIS (3) Gullum
The separation and detection of metals. Chem. 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 8 lab. Prereq., 2 or 4. Fee, lab. \$3, breakage \$5.

109-110. QUANTITATIVE ANALYSIS (4) Clippinger
The problem side of analytical chemistry as well as the laboratory. The course teaches the rapidity and accuracy necessary to analytical work; the interpretation of results and the exercise of care and integrity. Primarily volumetric analysis. In Chem. 110 the following phases are considered: iodometry, volumetric precipitation, electrolytic and electro-metric analysis, and gravimetric procedure. 2 lec. and 6 lab. Prereq., 4 or 105. Fee, lab. \$4, breakage \$5.

111. QUANTITATIVE ANALYSIS (4) Clippinger
A one-semester course in analytical chemistry for students majoring in zoology. The laboratory and lecture work will include the practical, theoretical, and problem phases of acidimetry, alkalimetry, iodometry, and some colorimetry. Not open to chemistry majors. 2 lec. and 6 lab. Offered both semesters. Prereq., 2 or 4. Fee, lab. \$4, breakage \$5.

113. ORGANIC CHEMISTRY (3) Dunlap
A general survey course in organic chemistry covering both aliphatic and aromatic compounds. Designed for students planning to take home economics, medical technology, or pre-dental courses. Offered both semesters. Prereq., 2 or 4.

115-116. ORGANIC CHEMISTRY (3) Dunlap
A course in organic chemistry designed for pre-medical, chemistry, and zoology majors. Prereq., 2 or 4.

117. ORGANIC CHEMISTRY LABORATORY (2) Dunlap
A laboratory course designed to accompany or follow Chem. 113. 6 lab. Prereq., 113 or with 113. Fee, lab. \$5, breakage \$5.

119-120. ORGANIC PREPARATIONS (2) Dunlap
Practical work in organic chemistry. 6 lab. Prereq., 115 or with 115. Fee, lab. \$5, breakage \$5.

122. **PHYSIOLOGICAL CHEMISTRY** (3) Gullum
2 lec. and 4 lab. Prereq., 113 or 115. Fee, lab. \$3, breakage \$5.
- 168s. **TEACHING OF CHEMISTRY AND LABORATORY PRACTICE** (2-4) Morton
(Same as Ed. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission.
- 201-202. **INORGANIC PREPARATIONS** (4) Clippinger
A fundamental course in the preparation of typical chemical substances in the pure condition. The course illustrates the general methods of simple crystallization in the presence of isomorphous impurities. Several electrochemical preparations are included. Laboratory and conferences. Prereq., 109. Fee, lab. \$4, breakage \$5.
205. **ADVANCED QUANTITATIVE ANALYSIS** (3) Clippinger
Special problems in analytical chemistry. Prereq., 110 and permission. Fee, lab. \$3, breakage \$5.
206. **INDUSTRIAL ANALYSIS** (3) Clippinger
The analysis of oils, gases, and water, with problems for interpretation. Prereq., 110. Fee, lab. \$3, breakage \$5.
209. **ADVANCED ORGANIC CHEMISTRY** (3-6) Dunlap
A presentation of special topics in the field of organic chemistry. Contributions of organic chemistry to fundamental chemical principles and the applications of chemical theories to problems of organic chemistry are emphasized. Prereq., 120.
- 213-214. **PHYSICAL CHEMISTRY** (3) Morton
Prereq., 116, Math. 117 or with 117, and Phys. 6 or 114.
- 215-216. **PRACTICAL PHYSICAL CHEMISTRY** (3) Morton
Prereq., 214. Fee, lab. \$3, breakage \$5.
- 217-218. **ADVANCED PHYSICAL CHEMISTRY** (2-12) Morton, Eblin
Prereq., 214 and Math. 118.
221. **QUALITATIVE ORGANIC ANALYSIS** (3) Dunlap
The separation and identification of organic compounds. Preliminary to research in organic chemistry. 1 lec. and 6 lab. Prereq., 120. Fee, lab. \$3, breakage \$5.
224. **METALLOGRAPHY** (3) Clippinger
A study of metallic structure, heat treating, polishing, microscopic examination, and photographing of steels and other alloys. Prereq., 214. Fee, lab. \$3, breakage \$5.
225. **ELECTROCHEMISTRY** (2) Clippinger
A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electromotive force of concentration and oxidation-reduction cells, polarization,

and depolarization. Practical applications of electrolytic reduction and oxidation. Prereq., 214.

228. COLLOID CHEMISTRY (3) Eblin
Theoretical discussion and applications to various fields. Prereq., 16 hrs.

229-230. CHEMICAL ENGINEERING (3) Dunlap
A study of the fundamental principles of unit operations with problems to illustrate the theories. Prereq., 214.

231-232. PRACTICAL CHEMICAL ENGINEERING (2) Dunlap
Laboratory practice in heat transfer, filtration, distillation, etc. Prereq., 229 or with 229. Fee, lab. \$2, breakage \$5.

251. SPECIAL PROBLEMS IN CHEMISTRY (2-12) The staff
A consideration of special problems and methods as applied to the chemical industries. Prereq., 24 hrs. Fee, lab. \$1 for each credit hour, breakage \$5.

381. RESEARCH IN CHEMISTRY (3-12) The staff
Prereq., 36 hrs. Fee, lab. \$1 for each credit hour, breakage \$5.

395. THESIS (2-4) The staff
Prereq., permission.

CIVIL AERONAUTICS Associate Professors Dow, Wilsey

197. CONTROLLED PRIVATE FLYING (0) Athens Airways, Inc.
Preliminary ground instruction, taxiing, take-offs, landings, spins, forced landings; solo flight and practice, stalls, cross-wind take-offs and landings, power approaches and landings, and cross-country flight. 1½ lab. Prereq., registration in C. A. 199. Fee, \$30 maximum.

199. CONTROLLED PRIVATE GROUND COURSE (3) Dow, Wilsey
History of aviation, civil air regulations, navigation, meteorology, theory of flight, aircraft engines and instruments, and radio uses and terms. 4 lec. Prereq., see "Civil Pilot Training Program" under "College of Applied Science."

201. RESTRICTED COMMERCIAL GROUND COURSE (5) Wilsey
Aerodynamics and structure of airplanes, navigation; airplane engines, propellers, and accessories; aircraft operation. 8 lec. Prereq., 197, 199, and see "Civil Pilot Training Program" under "College of Applied Science."

202. RESTRICTED COMMERCIAL FLIGHT TRAINING (0) Athens Airways, Inc.
Flight training in advanced maneuvers of the airplane, such as chandelles, lazy eights, spirals, loops, snap rolls, cartwheels, cuban eights, Immelman turns, slow rolls. 1½ lab. Prereq., registration in C.A. 201. Fee, \$40 maximum.

CIVIL ENGINEERING

Associate Professors Gaylord, Wilsey
Assistant Professors Thomas, Clark

1-2. MECHANICAL DRAWING

(2) Thomas

Free hand lettering, use of instruments, geometric constructions, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawings. Intersections, developments, structural, electrical, and architectural drafting, tracings and blue prints. Students who enter with two or more units of mechanical drawing may be excused by examination from part or all of the course. 6 lab.

74. THE SLIDE RULE

(1) Wilsey

Prereq., Math. 5.

105. DESCRIPTIVE GEOMETRY

(3) Thomas

Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 4 lab. Prereq., 1.

107. PERSPECTIVE DRAWING

(1) Clark

Pictorial representation of objects, including shadows on objects and planes. Parallel and oblique perspective. 3 lab. Prereq., 2.

110. PLANE SURVEYING

(3) Clark

Methods of obtaining measurements in the field for general engineering work, taking of proper notes, and computations. 3 lec. first 10 weeks, followed by 60 hours in the field. Prereq., Math. 5. Fee, \$3.

111. ROUTE SURVEYING

(2) Clark

Application of the principles of route engineering in the field. A center line for one type of transportation route is laid out and profile and cross-sections taken. Computation of areas, cut and fill, cost estimate. 6 lab. Prereq., with 151. Fee, \$2.

113. TOPOGRAPHIC SURVEYING

(2) Clark

Application of the principles of surveying to map making, study of horizontal and vertical control, triangulation, stadia traversing, note taking and reduction, and map making. 6 lab. Prereq., 110. Fee, \$2.

121. APPLIED MECHANICS (STATICS)

(3) Wilsey

Algebraic and graphic solution of equilibrium of forces, application to jointed frames, centroids and moments of inertia, friction. Prereq., Math. 118 or with Math. 118.

122. APPLIED MECHANICS (DYNAMICS)

(2) Wilsey

A continuation of 121, treating the general subjects of kinematics and dynamics. Prereq., 121.

123. MATERIALS OF CONSTRUCTION

(2) Wilsey

Manufacture, tests, properties, and uses of various materials important in engineering construction.

124. STRENGTH OF MATERIALS (3) Wilsey
Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. Prereq., 121.
125. ENGINEERING PROBLEMS (3) Gaylord
Typical problems in engineering, involving applications of mathematics through calculus. Prereq., Math. 118.
126. TESTING LABORATORY (1) Wilsey
A series of experiments on the tensile, compressive, and shearing strengths of the principal materials of engineering. 3 lab. Prereq., with 124. Fee, \$1.
127. TESTING LABORATORY (1) Wilsey
Cement and aggregate analyses, slump tests, compressive tests on concrete cylinders, effect of admixtures. 3 lab. Prereq., 126 and with 135. Fee, \$1.
130. STRESSES IN STRUCTURES (5) Gaylord
Application of the laws of static equilibrium to the analysis of stresses in component parts of engineering structures. 3 lec. and 4 lab. Prereq., 121.
133. STRUCTURAL DESIGN (5) Gaylord
Principles involved in the design of members for steel structures. Applications and problems in the design of roof trusses, bridges, and building frames. 4 lec. and 2 lab. Prereq., 130.
134. STRUCTURAL DESIGN (2) Gaylord
Each student is required to design and prepare a design drawing for a highway bridge or a steel building frame, following standard specifications for such structures. 6 lab. Prereq., 133 or 139.
- 135-136. REINFORCED CONCRETE (3) Gaylord
Theory and design of reinforced concrete beams, columns, slabs, retaining walls, and foundations. Elements of soil mechanics applicable to retaining wall and foundation design. Prereq., 124 and 130.
138. STRESSES IN STRUCTURES (3) Gaylord
An abbreviation of C. E. 130 for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 121.
139. STRUCTURAL DESIGN (3) Gaylord
An abbreviation of C. E. 133 for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 124 and 138.
141. HYDRAULICS (3) Clark
Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes and open channels; elementary theory of pumps and turbines. 2 lec. and 2 lab. Prereq., 121.

142. WATER SUPPLY AND SEWERAGE (3) Clark
Sources, treatment, and delivery of pure water to consumers; collection, treatment, and disposal of water wastes. Theory of design, construction, and estimation of the various types of water works and sewage disposal plants. Prereq., 141.
144. WATER SUPPLY AND SEWERAGE (2) Clark
Design of water works and sewerage systems. 1 lec. and 2 lab. Prereq., with 142.
151. ROUTE ENGINEERING (3) Clark
Theory of simple and compound curves, spiral casements, vertical curves, earthwork quantities, construction methods, tracks as applied to transportation routes. Prereq., 110.
152. HIGHWAY ENGINEERING (3) Clark
Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 151.
176. CONTRACTS AND SPECIFICATIONS (2) Wilsey
A study of the writing and use of engineering contracts and specifications.
178. ENGINEERING ECONOMY (3) Gaylord
Comparisons of immediate economy, ultimate economy, advisability of replacing an existing structure, engineer's use of accounting records, estimating technique.
214. ADVANCED SURVEYING PROBLEMS (2) Clark
Principles and practices in calculations for azimuth, latitude, and longitude by means of observations on Polaris and the sun with the surveyor's transit. Miscellaneous problems in land surveying and contour lines. Extended use of the plane table. 6 lab. Prereq., 113. Fee, \$2.
224. ADVANCED STRENGTH OF MATERIALS (2) Gaylord
Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 124.
227. ADVANCED STRUCTURAL ANALYSIS (3) Gaylord
Theory of analysis of structures for which the conditions of static equilibrium are insufficient to obtain a solution. Prereq., 130 or 138.
228. ADVANCED STRUCTURAL ANALYSIS (2) Gaylord
Continuation of C. E. 227. Arches, rigid frames, Vierendeel trusses. 1 lec. and 3 lab. Prereq., 227.
291. STUDIES IN CIVIL ENGINEERING (1) The staff
Prereq., 15 hrs.

CLASSICAL LANGUAGES

Professor Hill
 Assistant Professor Jolliffe
 Instructor Brokaw

GREEK

1-2. BEGINNING GREEK (4) Hill

An introductory study of the language leading to the reading of selections from classical authors. Attention to the Greek element in English.

55, 56. CONTRIBUTIONS OF GREEK CIVILIZATION* (1) Hill

A study of the contributions of Greek civilization to modern life. Such specific subjects as history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences are considered for the part Greece had in their development.

101-102. XENOPHON, HOMER, AND PLATO (3) Jolliffe

The reading of parts of Xenophon's *Anabasis* with some review of language principles. Selections from Homer's *Iliad* and *Odyssey*, followed in Gk. 102 by Plato's *Apology* and *Crito* with some attention to related philosophical works. Prereq., 2.

114. GREEK EPIC IN ENGLISH* (1) Jolliffe

Homer's *Iliad* and *Odyssey* are read in English with special attention to their style, development, narrative, content, and their influence on later literature.

127. GREEK WORDS IN ENGLISH* (2) Hill, Brokaw

Literary and scientific terms of Greek origin which provide a major part of the technical and semi-technical vocabulary in many of the cultural and professional fields. Special laboratory assignments for developing the student's vocabulary in the range of his particular interests. Prereq., 6 hrs. foreign language or English.

211. GREEK DRAMA IN ENGLISH* (2) Jolliffe

The evolution of the theater. Class presentation and discussion of the great Greek tragedies as well as some comedies of Aristophanes and Menander. Prereq., 12 hrs. English, or 6 hrs. English and 6 hrs. foreign language or dramatic art.

216. NEW TESTAMENT GREEK (2) Hill
Prereq., 11 hrs.309. GREEK LYRIC POETS (2) Hill
Theocritus, Pindar, and Sappho. Prereq., 14 hrs.310. THE GREEK ORATORS (2) Hill
Selections from Lysias and Demosthenes. Prereq., 14 hrs.

*No knowledge of Greek required.

LATIN

- 1-2. BEGINNING LATIN (4) Jolliffe
 Corresponds to first two years of high school Latin. Introductory course leading to the reading of easy Latin stories of history and mythology with selections from Caesar's *Gallie War* in the second semester. Emphasizes the Latin influence on the language, literature, law, and customs of the modern world.
3. CICERO'S ORATIONS (4) Brokaw
 Begins with a review of the language and readings from Caesar's *Gallie War*, followed by selected orations of Cicero. Prereq., 2 or 2 yrs. high school Latin.
4. VERGIL (4) Brokaw
 Selections from the first six books of the *Aeneid*, with some study of classical mythology. Prereq., 3 or permission.
101. FAMILIAR ESSAYS (4) Hill
 Cicero's *De Amicitia*, *De Senectute*, *Scipio's Dream*. Some review of essential elements of Latin and a comparative study of the literature on friendship during the first half of the semester. Prereq., 4, 4 yrs. high school Latin, or 3 yrs. and permission.
102. HORACE AND TERENCE (4) Hill
 A comedy by Terence and selections from Horace's *Odes and Epodes*. Prereq., 101 or permission.
103. PLINY'S LETTERS (3) Jolliffe
 Selections which reveal the human side of Roman life and society from Nero to Trajan. Prereq., 102 or permission.
104. LIVY AND OVID (3) Brokaw
 The legendary history of early Rome and stories from Ovid. Prereq., 102 or permission.
112. WRITING LATIN PROSE (1) Hill
 Exercises in writing Latin designed to give the student greater mastery of the language. Preferably to be done in conjunction with Lat. 102. Prereq., 101.
121. SALLUST (Summer session only) (3) Jolliffe, Brokaw
 The *Catiline* and selections from the *Jugurtha*. Prereq., 4 yrs. high school Latin or permission.
123. NEPOS AND LIVY (Summer session only) (3) Brokaw
 Selected *Lives* of Nepos and readings from Livy ranging in time from the founding of the Republic to the end of the Punic Wars. Prereq., 4 yrs. high school Latin or permission.
125. CICERO, SELECTED WORKS (Summer session only) (3) Brokaw
 The reading of important orations of Cicero not commonly read in high school, and selections from his other works which are of particular interest to teachers of high school Latin. Prereq., 101 or permission.

127. ENGLISH WORDS FROM LATIN* (2) Jolliffe
 Vocabulary building through a knowledge of some of the Latin elements which combine to make more than half of the words in the English language. Special attention to the needs of those who wish to master the technical language of law, medicine, science, commerce, or other special fields in which there is a large Latin element.
- 165r. TEACHING OF LATIN (2) Hill
 (Same as Ed. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks, and important reference material. Some study of important principles of the language. Prereq., 103 or permission.
211. CICERO AND CATULLUS (Not offered in 1941-1942) (1-3) Hill-Brokaw
 Selected letters from Cicero and selections from the *Carmina* by Catullus. Prereq., 12 hrs. or 6 hrs. and 6 hrs. foreign language or dramatic art.
212. CAESAR AND PLAUTUS (Not offered in 1941-1942) (3) Jolliffe
 Caesar's *Civil War* and one comedy by Plautus. Prereq., 103.
213. HORACE AND JUVENAL (3) Hill, Brokaw
Satires. Prereq., 103.
214. TACITUS AND MEDIEVAL LATIN SELECTIONS (1-3 as scheduled) Jolliffe
 Tacitus' *Agricola* and *Germania*, with selections from medieval Latin. Prereq., 103.
220. VERGIL, LATIN EPIC (Summer session only) (3) Hill
 Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 103.
221. SUETONIUS (Summer session only) (3) Hill, Brokaw
 The lives of Julius Caesar and of Augustus with some consideration of facts obtained from other sources. Prereq., 103.
222. THE LATIN DRAMATISTS (3) Hill, Jolliffe
 Selected comedies from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Prereq., 103.
223. VERGIL'S ECGUES AND GEORGICS (Summer session only) (3) Jolliffe
 Informal lectures on the early life of Vergil with the reading of selections from the *Eclogues* and *Georgics*. Some attention is also given to the collection of minor works known as the *Appendix Vergiliana*. Prereq., 103.
224. PETRONIUS (2) Brokaw
 The *Cena Trimalchionis* is read and studied both for the light it throws on social life at Rome and as an example of Latin prose of the Empire. Prereq., 104.

*No knowledge of Latin required.

225. DE NATURA DEORUM (2) Hill
Cicero's presentation of the classic conception of the nature of God and the founding of the universe. Prereq., 104.
226. MARTIAL (1) Jolliffe
A study of the epigrams of Martial as they portray with vivid personal touch almost every phase and station of Roman life. Prereq., 103.
227. ROMAN HISTORY IN THE CLASSICAL PERIOD* (Summer session only)
(1) Hill, Jolliffe
A brief survey of the outstanding events of Roman history during the period in which the most important works of Latin literature were produced. Prereq., 6 hrs., or 9 hrs. history and antiquities.
228. ROMAN RELIGION AND MYTHOLOGY* (2) Brokaw
Emphasis upon the relationship between Roman religion and mythology and upon the attributes and functions of the various divinities and mythological characters. Prereq., 8 hrs. classical languages or history and antiquities, or 12 hrs. English.
229. DEVELOPMENT OF ROMAN CULTURE* (2) Hill
Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prereq., 8 hrs. or 8 hrs. history and antiquities.
231. THE LIFE OF THE ROMANS* (2) Hill
The social customs of the Romans: the family, the house, transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Various phases are illustrated from the archaeological evidence. Prereq., 11 hrs. or 8 hrs. history and antiquities.
232. HISTORY OF LANGUAGE* (2) Jolliffe
How language began, developed, and functions in society; the causes of change and difference; semantics and its application in translation, education, poetry, and propaganda; the history of writing; modern English and its Latin, Romance, and Germanic backgrounds. Prereq., 8 hrs. foreign language or 12 hrs. English.
233. ADVANCED LATIN SYNTAX (1-3) Hill, Brokaw
A study of the principles of Latin syntax with emphasis upon their application in translation. Prereq., 103.
235. LATIN POETRY OF THE EMPIRE (3) Hill
Generous selections from the best of the post-Augustan poets. Designed to acquaint the student with the wealth of poetic literature in the period which followed the golden age. Prereq., 103.
238. EPIGRAPHY AND PALEOGRAPHY (1-2) Jolliffe, Brokaw
An introductory study of the form and content of Latin inscriptions with the reading of a limited number to illustrate their value as a source

*No knowledge of Latin required.

of information. A consideration of Latin manuscripts, the various styles of writing, and the relation of the manuscripts to the established text of a Latin author. Prereq., 103.

240. SPECIAL WORK IN LATIN (1-8) The staff
Individual work under careful guidance. Prereq., 103.
311. OVID'S FASTI (3) Hill
Selected books of the *Fasti* are read for content and for the light they throw on early Roman religion. Some study of elementary principles of text criticism. Prereq., 15 hrs.
312. SALLUST'S CATILINE AND JUGURTHA (3) Hill
These are read in their entirety as a background to the political situation which ushered in the Empire. Prereq., 20 hrs.
391. LATIN OF THE TRANSITION PERIOD (SEMINAR) (3) Hill
Prereq., 20 hrs.
395. THESIS (4-8) The staff
A thesis may be offered in Latin or in classical languages. Prereq., permission.

COLLEGE PROBLEMS—See Personal Relations

COMMERCE

Professors Gubitz, Armbruster, E. E. Ray
Associate Professors Fenzel, Paynter, Beckert,
Hellebrandt, Hanson
Assistant Professors Krauskopf, Dykstra, Sponseller
Instructors Otis, Miller, Buchan, Snook,
Church, Gilmore, MacDonald, Paden, Parker, Hudson
Lecturer Wolfe

ACCOUNTING

- 75-76. ELEMENTARY ACCOUNTING (3) Fenzel, Beckert, Ray, Otis
The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships. The entire cycle of bookkeeping procedure. Ledger organization, expense controls, controlling accounts, and cost records with a discussion of exceptions and alternative methods constitute the work in Acct. 76.
81. ACCOUNTING SURVEY (2) Beckert
Open only to noncommerce students in order that they may obtain a knowledge of general principles of accounting in a minimum of time.
- 101-102. SECRETARIAL ACCOUNTING (3) Sponseller
The fundamental principles of accounting with particular emphasis on their application in the accounts of institutions, societies, individuals, and professional men. Not open to students who have had Acct. 75-76.
125. INTERMEDIATE ACCOUNTING (3) Fenzel, Beckert, Otis
The preparation and analysis of balance sheet and income state-

ments, principles of actuarial science, accounting for corporate net worth, consignments, instalment sales, and current asset valuation. Prereq., 76 or 102.

156. ACCOUNTING SYSTEMS (3) Otis
Principles and problems of system designing and analyses of systems for specialized enterprises. Prereq., 125.
- 161b. TEACHING OF BOOKKEEPING (2) Beckert
(Same as Ed. 161b) Prereq., 125.
175. COST ACCOUNTING (3) Ray
Manufacturing cost determination under the job-order and process systems. Prereq., 125.
195. ADVANCED PRINCIPLES OF ACCOUNTING (3) Beckert, Ray, Otis
Actuarial science as related to accounting, principles of fixed asset valuation, liabilities, special phases of net worth accounting, and special statement analyses. Prereq., 125.
206. ADVANCED PROBLEMS OF ACCOUNTING (3) Ray, Otis
Problems peculiar to partnerships, receiverships, and fiduciaries; accounting for branch houses, ventures, governmental units, and brokers; consolidated statements; and foreign exchange as related to accounting. Prereq., 195.
224. STANDARD COSTS AND BUDGETS (3) Ray
The establishment of cost standards, preparation of budgets, and analysis of cost variances. Prereq., 175.
243. INCOME TAX (3) Ray
A study of the current Federal Revenue Act and its application to hypothetical cases. Returns are prepared for individuals, partnerships, and corporations. Prereq., 125.
255. AUDITING PRINCIPLES (3) Otis
Purposes and scope of audits and examinations; theory and principles of procedure. Prereq., 195.
256. AUDITING PRACTICE (4) Otis
Problems of procedure consisting of comprehensive practice material based on an actual audit, supplemented by study of the content, design, and use of accountants' working papers and reports. Prereq., 255.
278. C. P. A. PROBLEMS (3) Otis
Analysis, interpretation, and solution of problems selected from examinations given by various state boards. Prereq., 255.
281. RESEARCH IN ACCOUNTING (2-8) The staff
Prereq., 175, 195, and permission.
391. SEMINAR IN ACCOUNTING (2-10) The staff
Prereq., 15 hrs. accounting and permission.
395. THESIS (4-8) The staff
Prereq., permission.

ADVERTISING

155. ADVERTISING PRINCIPLES (3) Krauskopf, Buchan
A survey of advertising which considers its place in the field of marketing and its fundamental principles as developed in special procedures relating to copy, mechanical production, media, testing and agency work. Prereq., Mkt. 155 or permission.
176. ADVERTISING PROBLEMS (2) Krauskopf
A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.
186. RETAIL ADVERTISING (3) Krauskopf
The principles of advertising as related to the needs of retailers. Prereq., 155.
211. DIRECT MAIL ADVERTISING (2) Krauskopf
An examination of direct mail materials, other than the letter, from the campaign point of view. Special emphasis is placed on booklets. Prereq., 155 and Ec. 102.
232. COPY WRITING (2) Buchan
The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 102.
241. ADVERTISING MEDIA AND MARKETS (2) Krauskopf
An examination of the major media with special attention to the uses of each in the promotional program. The characteristics of the market reached by each medium are examined. Prereq., 155, Mkt. 155, and Ec. 102.
281. RESEARCH IN ADVERTISING (2-8) The staff
Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.
391. SEMINAR IN ADVERTISING (2-10) The staff
Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.
395. THESIS (4-8) The staff
Prereq., permission.

Additional courses:

Psych. 6—The Psychology of Advertising and Selling

Ind. A. 145—Printing and Printing Processes

Jour. 147—Newspaper and Advertising Typography

Jour. 177—Newspaper Advertising Practice

Jour. 247—Newspaper Advertising and Layout

Jour. 248—Advertising Production

P. A. A. 147-148—Principles of the Space Arts in Advertising

P. A. A. 217-218—Advertising and Industrial Styling

BUSINESS LAW

- 155-156. BUSINESS LAW (3) Dykstra, Hudson
The principles of law involved in contracts, agency, sales, bailments, negotiable instruments, partnerships, and corporations.
159. BUSINESS LAW (3) Dykstra
An abridged course covering the topics considered in Business Law 155-156. It is designed primarily for those who wish to elect three hours of law and for those who must have three hours to meet major requirements. It cannot be substituted to meet the six hour requirement of College of Commerce students.
175. GOVERNMENT AND BUSINESS (2) Dykstra
Statutes, and court decisions interpreting them, by which federal, state, and local governments control, regulate, and aid business. Prereq., junior rank.
190. BUSINESS TORTS (3) Dykstra
Trespass to personal and real property, nuisance, libel and slander, negligence, fraud or deceit, and unlawful interference with business or employment. Prereq., 155 and 175, or 156.
205. LAW OF MARKETING (2) Dykstra
Trademarks, methods of protecting goodwill, relief against unfair competition, and the legal aspects of other problems encountered in advertising and marketing. Prereq., 156 and Mkt. 155.
211. LAW OF CORPORATE ORGANIZATION AND REORGANIZATION (2) Hudson
Legal problems involved in corporate formation, and reorganization with special reference to the Chandler Act. Prereq., 156.
231. LAW OF WILLS AND TRUST ADMINISTRATION (2) Hudson
The disposition of property by will and the creation and administration of trusts. Prereq., 156.
242. LAW OF REAL ESTATE AND CONVEYANCING (2) Dykstra
Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 156.
251. LAW OF CREDIT TRANSACTIONS (2) Hudson
A consideration of the legal aspects of suretyship, pledges, conditional sales, trust receipts, mechanics liens, chattel mortgages, and related subjects not covered in the other law courses. Prereq., 156.
281. RESEARCH IN LAW (2-8) The staff
A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 156 and permission.

ECONOMICS

1. ECONOMIC DEVELOPMENT OF THE UNITED STATES

(3) Gubitz, Hellebrandt, MacDonald, Parker

A study of the economic development of man and his institutions.

2. ECONOMIC DEVELOPMENT

(3) Gubitz, Hellebrandt

An explanation of the inter-relationships of the European economic system.

3. CONTEMPORARY ECONOMIC SOCIETY

(3) Beckert, MacDonald, Hudson

The organization, operation, and control of economic society with complementary problems.

15. ECONOMIC GEOGRAPHY

(3) Fenzel

The important natural resources: plants, animals, minerals, and power; the typical manufacturing industries; the systems of transportation: land, water, and air; all studied in their relation to man in his quest for a living.

101-102. PRINCIPLES OF ECONOMICS

(3) Gubitz, Hellebrandt, MacDonald, Paden, Parker

The following economic material is presented: production, consumption, distribution, exchange, money and banking, business cycles, credit, international economic relations, government and taxation, and economic control.

101-102. PRINCIPLES OF ECONOMICS

(5) Paden

Identical with 101-102 but designed for transfer students and others desiring to complete the entire course in one semester so that advanced work in economics and commerce may be pursued the following year. Offered second semesters only.

205. TRANSPORTATION

(3) Hellebrandt

The social, political, and economic aspects of the transportation problem are viewed by analyzing the nature, history, and problems of the various transportation agencies of the United States. Prereq., 102.

209. PUBLIC UTILITIES

(3) Hellebrandt

The course is a study of the economic basis of public utility enterprise: its nature and scope, its development and legal organization. Prereq., 102.

210. TRANSPORTATION AND PUBLIC UTILITY PROBLEMS

(2) Hellebrandt

Coordinate transportation, motor vehicle regulation, consolidation, finance, holding companies, commission regulation, and other current problems as they affect the various transportation agencies. Practical problems of rate-making, service, finance, the holding companies, public ownership, public relations, and commission regulation as they affect transportation agencies and local utility companies. Prereq., 205 or 209.

212. ADMINISTRATION OF PERSONNEL (3) Gubitz
A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102.
215. PUBLIC FINANCE (2) MacDonald
Government revenues other than taxation, the rise in public expenditures in modern times, public debts, the budget, the search for efficiency in fiscal administration. Prereq., 102.
216. TAXATION (3) MacDonald
The federal tax system: income, excise, estate taxes; state taxes on income, sales, bequests; local tax methods; tax system related to the stage of economic development. Prereq., 102.
220. TRUST AND CORPORATION PROBLEMS (3) Gubitz, Hellebrandt
A discussion of the combinations or trust problem as it has developed in the United States and other countries. Prereq., 102.
224. INDUSTRIAL STUDIES (3) Parker
An analysis of the major purposes of price and production, price stabilization, conservation, government regulation and ownership as concerned with selected basic industries. Prereq., 102.
227. CURRENT ECONOMIC PROBLEMS (3) Gubitz, Hellebrandt, Paden
A discussion of economic problems arising currently. Prereq., 102.
229. MODERN TRENDS IN ECONOMIC REFORM (3) Paden
Proposals for improving the standard of living; 19th century reformers in Europe and America, the repercussions of their programs in legislation and business policy; background of national socialism, Fascism, state socialism, and modified capitalism. Prereq., 102.
230. HISTORY OF ECONOMIC THOUGHT (3) Gubitz, Hellebrandt, Paden
A study of the historical evolution of the principal economic doctrines: the Athenian philosophers and Roman jurists, the mercantilists and cameralists, the physiocrats and Adam Smith, the classical school, the historical school, and the Austrian school. Prereq., 102.
233. ECONOMIC THEORY (3) Paden
Designed to give advanced students in business and economics a firm grasp of the most important economic theories and the relation of these theories to major economic problems. Prereq., 102.
235. LABOR RELATIONS (3) Gubitz
A general survey of the forces that give rise to modern labor problems. The purpose of the course is to give a basis for the developing of a general point of view, to make an analysis of the major problems involved, to indicate the trend of policy and organization, and to offer constructive suggestions for the handling of administrative problems. Prereq., 102.

238. LABOR LEGISLATION (2) Gubitz
A sketch of the historical background of various labor problems indicating the nature and extent of each and describing the legislative remedies which have been applied. Prereq., 102.
281. RESEARCH IN ECONOMICS (2-8) The staff
Prereq., 15 hrs. and permission.
302. MODERN ECONOMIC THOUGHT (2) Gubitz
A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, and others. Prereq., 18 hrs. commerce including 102.
304. INSTITUTIONAL ECONOMICS (2) Hellebrandt
Collective action in the control, liberation, and expansion of individual action. Consideration is given to the writings of economists from John Locke to the twentieth century and to court decisions. Prereq., 12 hrs.
391. SEMINAR IN ECONOMICS (2-10) The staff
Prereq., 15 hrs. and permission.
395. THESIS (4-8) The staff
Prereq., permission.
- Additional courses:
Mgt. 211—Industrial Management
Fin. 215—General Insurance Principles and Practices

FINANCE

101. MONEY AND CREDIT (3) Hanson, Parker
The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and credit problems.
106. BANKING PRINCIPLES (3) Hanson
The theory of banking, the state and national banking systems, the Federal Reserve system, and a historical survey of banking in the United States. Prereq., 101.
121. BUSINESS FINANCE (3) Armbruster, Hanson
The elements of business finance, the corporation, corporate securities, and financial plans.
142. CONSUMER FINANCING (2) Hanson
A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101.
156. ADVANCED BUSINESS FINANCE (3) MacDonald
The sale of securities, distribution of income, expansions and reorganizations. Prereq., 121.

175. INVESTMENT PRINCIPLES (2) Wolfe
A study of various types of securities; investment tests, investment policies, methods of security analysis, and sources of information. Prereq., 121.
201. THE STOCK MARKET (2) Hanson
The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101 and 121.
206. INVESTMENT ANALYSIS (2) Wolfe
An analytical approach to the formation of investment programs and the selection of specific securities. Prereq., 175.
212. CREDITS AND COLLECTIONS (2) Paynter
The principles, methods, and policies of mercantile and retail credit. Prereq., 101 and Ec. 102.
213. FINANCIAL DEVELOPMENT OF THE UNITED STATES (3) Parker
Fiscal policies of the Federal Government, the rise in public expenditures and the public debt, modernization of the federal revenue system, monetary and banking policies as influenced by the Federal Government. Prereq., 101 and Ec. 102.
215. GENERAL INSURANCE PRINCIPLES AND PRACTICES (2) Hellebrandt
An understanding of the important role which insurance plays in our economic and social regime. The more important principles common to all kinds of insurance coverage. The significant principles and practices of each of the principal types of insurance. Prereq., Ec. 102.
216. LIFE INSURANCE (2) Hellebrandt
The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., 215.
218. PROPERTY AND CASUALTY INSURANCE (2) Hellebrandt
The fundamental economics of property and casualty insurance. Various types of property and casualty insurance and problems arising out of their use; i.e., fire, smoke, windstorm, lightning, public liability, automobile, accident and health, hospitalization, etc. Prereq., 215.
221. FEDERAL RESERVE SYSTEM (2) Hanson
The history of the Federal Reserve system, its structure and operation with particular emphasis on its relation to the money market and the problem of credit control. Prereq., 106.
252. INTERNATIONAL FINANCE (3) Parker
The financial relations between nations dealing with such problems as the international price level, foreign investments, war debts, reparations, and international banking. Prereq., 101 and Ec. 102.
255. FOREIGN EXCHANGE (3) Parker
The foreign exchanges, methods of financing foreign trade, and exchange problems. Prereq., 101 and Ec. 102.

281. RESEARCH IN FINANCE (2-8) The staff
Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission.
391. SEMINAR IN FINANCE (2-10) The staff
Prereq., 9 hrs., Ec. 102, and permission.
395. THESIS (4-8) The staff
Prereq., permission.
- Additional courses:
Bus. L. 211—Law of Corporate Organization and Reorganization
Ec. 215—Public Finance
Ec. 220—Trust and Corporation Problems

MANAGEMENT

211. INDUSTRIAL MANAGEMENT (3) Gubitz
The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102.
271. BUSINESS POLICY (3) Armbruster
A correlation of the work of other courses offered in commerce. Business problems of general administration rather than those of any special activity are considered. Prereq., Ec. 102 and senior rank.
- Additional courses:
Ec. 212—Administration of Personnel
Ec. 235—Labor Relations
Ec. 238—Labor Legislation
Stat. 172—Control of Business Operations

MARKETING

155. MARKETING PRINCIPLES (3) Paynter, Krauskopf
The principles, methods, and policies of marketing consumers' goods and industrial goods.
158. MARKETING PROBLEMS (3) Paynter
A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.
171. PRINCIPLES OF PERSONAL SELLING (2) Krauskopf
The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.
176. SALES MANAGEMENT (3) Krauskopf
Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

191. COOPERATIVE MARKETING (2) Paynter
A survey of cooperative marketing in all the stages of distribution. Prereq., 155 or permission.
201. RETAILING (3) Paynter
The organization and operation of retail institutions. Prereq., 155 and Ec. 102.
205. PRINCIPLES OF FASHION MERCHANDISING (3) Miller
The relation of fashion in all kinds of merchandise to the production and distribution of merchandise. Prereq., 201.
211. RECENT TRENDS IN MARKETING AND SELLING (Summer session only) (3) Krauskopf
Prereq., 155 and Ec. 102.
226. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter
The purchasing and selling of industrial goods. Prereq., 155 and Ec. 102.
241. FOREIGN TRADE (3) Paynter
The theory of foreign trade including free trade and protection, and commercial treaties and tariff history. Prereq., Ec. 102.
246. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102.
257. RETAIL SELLING PROBLEMS (2) Miller
Prereq., 205 and H. Ec. 256.
260. STORE PRACTICE (5) Miller
Experiences in selling and nonselling operations in retail stores supplemented by reading, lectures by store executives, and conferences with supervisors. Applicable for credit only toward the degrees of Bachelor of Science in Education and the Bachelor of Science in Secretarial Studies. Prereq., 257.
281. RESEARCH IN MARKETING (2-8) The staff
Research methods, market data, and methods of conducting market surveys. Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission.
391. SEMINAR IN MARKETING (2-10) The staff
Prereq., 18 hrs. commerce including 5 hrs. marketing, and permission.
395. THESIS (4-8) The staff
Prereq., permission.

SECRETARIAL STUDIES

15. TYPEWRITING (2) Snook
Students are expected to attain a speed of 30 words a minute. Students who have had typewriting in high school should register for Sec. St. 16 or 111. 5 lec. and 1 lab. Fee, \$2.

16. TYPEWRITING (2) Snook
Students are expected to attain a speed of 45 words a minute. 5 lec. and 1 lab. Prereq., 15 with a scholastic average of at least 2.000. Fee, \$2.
31. SHORTHAND (3) Miller
A course in Gregg shorthand. Four hours a week. Prereq., 15 or with 15.
32. SHORTHAND (3) Miller
A student should pass the standard Gregg Writer Complete Theory Test and a five-minute 60-word-a-minute transcription test. Four hours a week. Prereq., 31 with a scholastic average of at least 2.000.
111. TYPEWRITING (2) Snook
A course planned to develop typewriting speed and accuracy. 5 lec. and 1 lab. Prereq., 16 with a scholastic average of at least 2.000, or 45-word speed test. Fee, \$2.
120. BUSINESS LETTER WRITING (3) Gilmore
The principles of writing business letters and reports. Prereq., Eng. 2 or 4.
151. ELEMENTARY DICTATION AND TRANSCRIPTION (3) Miller
The fundamental principles of taking dictation and transcribing business letters. The standard for credit is the 100-word Gregg transcription test. Six hours a week. Prereq., 16 and 32 with a scholastic average of at least 2.000. Fee, \$1.
152. INTERMEDIATE DICTATION AND TRANSCRIPTION (3) Miller
The standard for credit is the ability to take letter dictation at 120 words per minute and transcribe at the rate of 25 words per minute. Six hours a week. Prereq., 151 with a scholastic average of at least 2.000. Fee, \$1.
153. ADVANCED DICTATION AND TRANSCRIPTION (4) Gilmore
The standard for credit is the ability to take congressional material at 120 words per minute and transcribe at the rate of 30 words per minute. Two hours a day, four days a week. Prereq., 152 with a scholastic average of at least 2.000. Fee, \$1.
156. COURT REPORTING (3) Miller
The techniques of reporting in shorthand and transcribing court proceedings, hearings, meetings, etc. One hour daily. Prereq., 111 and 152 with a scholastic average of at least 2.000. Fee, \$1.
- 161a. TEACHING OF BUSINESS SUBJECTS (2) Snook
(Same as Ed. 161a) Prereq., junior or senior rank.
- 161s. TEACHING OF SHORTHAND (2) Miller
(Same as Ed. 161s) Prereq., 151 or an 80-word dictation test.
- 161t. TEACHING OF TYPEWRITING (2) Sponseller
(Same as Ed. 161t) Prereq., 16 or 111.

171. SECRETARIAL THEORY (2) Sponseller
 Designed to give training in the operation of office machines and in the duties of a private secretary. Five hours a week. Prereq., 16 and 32. Fee, \$2.
172. SECRETARIAL THEORY (2) Snook
 Designed to give the student training in filing and in the use of the commercial dictaphone. Five hours a week. Prereq., 16 and 32. Fee, \$2.
175. SECRETARIAL PRACTICE (4) Sponseller
 Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory and conference. Prereq., 151 and 171.
180. OPERATION OF OFFICE MACHINERY (2) Sponseller
 Five hours a week. Prereq., junior or senior rank. Fee, \$2.
185. OFFICE MANAGEMENT (2) Snook
 A study of the principles governing office administration with emphasis upon organization, management, layout, equipment, and functions. Prereq., junior or senior rank.
235. COMMERCIAL CURRICULUM CONSTRUCTION (2) Miller
 (Same as Ed. 235) A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.
287. RESEARCH IN BUSINESS TEACHING PROBLEMS (2-8) The staff
 (Same as Ed. 287) Prereq., 20 hrs. commerce, senior rank, and permission.
391. SEMINAR IN BUSINESS TEACHING PROBLEMS (2-10) The staff
 (Same as Ed. 391) Prereq., 20 hrs. commerce and permission.
395. THESIS (4-8) The staff
 Prereq., permission.
- Additional course:
 Acct. 101-102. Secretarial Accounting

STATISTICS

- 155-156. BUSINESS STATISTICS (3) Church
 Elementary statistical methods used in business. 2 lec. and 2 lab. Fee, \$3.
172. CONTROL OF BUSINESS OPERATIONS (2) Church
 Largely a study of charting and rapid graphic methods used in controlling production, purchasing, sales and investment policies of business organizations. Prereq., 155.
203. ADVANCED BUSINESS STATISTICS (3) Church
 A continuation of Stat. 155-156 in sampling, trend fitting, and correlation, with emphasis upon practical applications. Prereq., 156 and Ec. 102.

241. BUSINESS CYCLES (3) Church
A study of the broad aspects of business cycles, the variations in intensity and timing among selected industries, and a brief survey of some methods used in forecasting business fluctuations. Prereq., 155 and Ec. 102.
245. FORECASTING (3) Church
A study of forecasting methods used in prediction of long term trends, business cycles, and price changes. Selected methods are applied to current data. Prereq., 156 and Ec. 102.
252. CURRENT BUSINESS CONDITIONS (3) Church
A study of current business reports and of sources and types of data available concerning recent business conditions. Prereq., 155 and Ec. 102.
281. RESEARCH IN BUSINESS STATISTICS (2-8) The staff
Prereq., 18 hrs. commerce including 156 and permission.
391. SEMINAR IN BUSINESS STATISTICS (2-10) The staff
Prereq., 18 hrs. commerce including 156 and permission.
395. THESIS (4-8) The staff
Prereq., permission.
Additional course:
Math. 226—Theory of Statistics

DRAMATIC ART

Professor Dawes
Associate Professor Staats
Assistant Professor Jukes
Instructors Rowan, Arbenz,
Thon, Beckey
Part-Time Instructor Wilson

1. SPEECH SURVEY (1) The staff
A series of lectures designed to give the student a broad conception of the subject matter covered by the School of Dramatic Art. Periodic quizzes and reports.

DRAMATIC PRODUCTION

21. ELEMENTS OF STAGE SCENERY (3) Jukes
A basic course in the technical considerations of producing a play; the underlying principles of scenic construction; the types and utilization of stage scenery.
23. ELEMENTS OF STAGE LIGHTING (3) Rowan
The study and practice of stage-lighting units, control equipment, and color media, and its application to play production in the non-professional theatre. 2 lec. and 2 lab.

103. INTRODUCTION TO THE THEATRE (3) Dawes

The relation of the theatre to the community. The organization and business management of the amateur dramatic group. The play and the bases for its selection. Editing script, casting, rehearsal methods, directing techniques, and the performance. Prereq., 4 hrs. or junior rank.

106. COSTUMING THE PLAY (2) Thon

Consideration of the use of color, line, and texture in designing, constructing, and adapting costumes for the stage. 1 lec. and 2 lab.

109. MAKE-UP (2) Rowan

The study of the history, development, and practical application of all types of make-up for the actor. Prereq., 4 hrs.

122. SCENE DESIGN AND PAINTING (3) Jukes

A course in the various theories of designing settings and painting them. Attention is given to the effect of stage lighting on scenery and make-up. Opportunity for practical experience is given through participation in the University Theatre and Fortnightly Playshop productions. Prereq., 3 hrs.

125. RADIO PLAY PRODUCTION (3) Jukes

Radio techniques including the study of sources for radio material and the editing and preparation of radio play script. Use of sound effects. Practice work in the university sound studio and in nearby radio stations. 1 lec. and 4 lab. Prereq., 15.

140. PUPPETRY (3) Jukes

The principles involved in the building, costuming, and manipulation of marionettes, hand-puppets, and hand-and-rod puppets. The student constructs puppets and participates in marionette productions. 1 lec. and 4 lab. Prereq., 4 hrs.

142. PLAYS FOR PUPPETS (3) Jukes

Survey of the plays written for puppets. Consideration of the marionette theatre as an art form, and analysis of the possible types of puppet production. Collection of materials for extempore dramatization and practice in organizing new ideas for marionette presentation, and consequent practice in manipulation. 1 lec. and 4 lab. Prereq., 3 hrs.

147. THEATRE WORKSHOP (1-7) Dawes and the staff

Participation in the production process connected with the plays presented by the University Theatre. Rehearsal, performance, and technical work connected with theatrical production.

149. PRINCIPLES OF ACTING (3) Rowan

A presentation and discussion of the most widely accepted acting techniques, supplemented by practical experience in the one-act plays produced by the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 34 or examination.

150. ADVANCED ACTING TECHNIQUE (3) Arbenz

A continuation of Dram. A. 149, stressing more difficult characteriza-

tions. Laboratory experience provided in the productions of the Fortnightly Playshop. 1 lec. and 4 lab. Prereq., 149 and permission.

162h. TEACHING OF HIGH SCHOOL DRAMATICS (2) Dawes

(Same as Ed. 162h) Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs., 12 hrs. English, and permission. Teaching experience may be accepted in lieu of course prerequisites.

170. THEATRE MANAGEMENT (2) Rowan

Organization and management of the "front of the house," including the advertising, publicity, and business, coincident with production of the University Theatre. Prereq., 3 hrs. or 3 hrs. commerce.

179. HISTORY OF THE VISUAL THEATRE (3) Jukes

A review of the development of the physical aspects of the theatre. The sociological, religious, and political factors which have affected methods of dramatic presentation. Techniques contributed by such men as Appia, Bibiena, and Jones. Prereq., 6 hrs. or 12 hrs. English.

180. MASTERS OF THE THEATRE (2) Rowan

A survey of the history of theatrical production and acting during the more important periods in the development of the stage, with emphasis on the influences that leading dramatists, actors, and producers have had on the changes in drama and theatrical production. Prereq., 6 hrs. or 12 hrs. English.

206. ADVANCED SCENERY AND LIGHTING (3) Jukes

Theories and problems involved in stage lighting and scenic elements of decor. Experimentation with paint, structure, and light, using the model set. Use and manipulation of the theatre's switchboard. 1 lec. and 4 lab. Prereq., 12 hrs. including 21 and 122.

221, 222. DRAMATIC COMPOSITION (3) Thon

Theory of playwriting. Practical experience in the writing and re-writing of plays. Scripts of sufficient merit are produced under the writer's supervision by the Fortnightly Playshop. Emphasis is placed on the student's apperceptive background. Prereq., 6 hrs. and 12 hrs. English and/or journalism.

250, 251. PLAY DIRECTION (3) Dawes

Development of procedure followed by the director in preparing plays for public performance. Analysis of the script. Methods of casting and rehearsal. Capable students direct one-act plays presented by Playshop. 1 lec. and 4 lab. Prereq., 12 hrs. including 103, 150, and permission; graduate students may substitute practical experience in schools for course prerequisite.

381. RESEARCH IN THEATRE PRACTICE (3-6) Dawes

Specific phases of the production process. Attention to classic and contemporary literary treatment. Directed experimentation in theatrical techniques. Prereq., 18 hrs.

393. SEMINAR IN PRODUCTION PROBLEMS (2-3) Dawes

Each student investigates problems in his field of interest. Lectures and group discussions include pageantry, the musical drama, the puppet theatre, the community and church theatre, educational dramatics below the college level, and dramatic criticism. Prereq., 15 hrs.

395. THESIS (4-8) The staff

Prereq., permission.

SPEECH

3. PUBLIC SPEAKING (2) Rowan, Beckey, Jukes

A fundamental course in effective speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Conferences with instructor.

12. ADVANCED PUBLIC SPEAKING (2) Staats

An extended study and application of the principles of public speaking. Prereq., 3, 15, or 25.

15. VOICE AND DICTION (2) Arbenz, Thon, Beckey, Wilson

Designed to assist in making social adjustments through the medium of speech training. Emphasis upon mental, physical, and emotional coordinations essential to good voice. Special attention to phrasing, intonation, pronunciation, and minor speech difficulties. Group and individual guidance. Vocal recordings. Fee, \$2.

25. PRINCIPLES OF ARGUMENTATION (2) Staats

Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE (2) Arbenz

Effective techniques in reading aloud; aid in the development of adequate intellectual and emotional responsiveness to the meaning of literature. Consideration given the various schools of interpretation. Discussion of theory. Practice in reading aloud. Prereq., 3 or 15.

110. PARLIAMENTARY LAW (1) Staats, Beckey

A study of the techniques involved in conducting a public gathering and in presiding over an assembly.

113. PUBLIC ADDRESS (2) Staats

Designed to furnish the student a deeper insight into the rhetorical aspects of the public address. This course furnishes opportunity for the preparation of speeches for local, state, and national oratorical contests. Emphasis is placed on informal, conversational delivery. Classical standards as to preparation and organization are maintained. Prereq., 3 or 12, 15, and 25.

117. DEBATE PRACTICE (3) Staats

Preparation of debate cases and participation in intercollegiate debates. Prereq., 25.

139. **ADVANCED DEBATE** (3) Staats
Advanced work in all phases of debating. Prereq., 117 and 1 yr. on the varsity squad.
- 162s. **TEACHING OF SPEECH IN THE GRADES** (2) Dawes
(Same as Ed. 162s) The various phases of speech pertaining to work in the elementary grades. Assembly programs, oral interpretation, intra-class and interclass debates, platform delivery, and educational dramatics.
- 162x. **TEACHING OF SPEECH IN THE HIGH SCHOOL** (2) Staats
(Same as Ed. 162x) Emphasis placed on indicated procedures in high school speech classes; a comprehensive survey of the literature and material adapted to speech training in high schools; and the correlation of speech work with extracurricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., 12, 15, 25, or permission.
195. **INTRODUCTION TO SPEECH PATHOLOGY** (3) Beckey
The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Clinical practice in the correction of speech anomalies. Prereq., 6 hrs., Psych. 1 or 5, or permission.
202. **ADVANCED ORAL INTERPRETATION** (2) Arbenz
Continuation of Dram. A. 134 with emphasis upon developing skill in oral rendition of the short story, prose, and various forms of poetry. Prereq., 134.
203. **AMERICAN SPEAKERS** (3) Staats
Thorough study of the outstanding speakers of America. A study of the speeches, the circumstances under which they were delivered, and their influence measured by conditions of the time. Prereq., 102.
208. **HISTORY OF ORATORY** (3) Staats
Class study of orations characteristic of the oratory of various periods of history. Prereq., 6 hrs.
- 209-210. **RHETORICAL THEORY** (3) Staats
A detailed study of the principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Modern viewpoints are investigated. In Dram. A. 210, speeches of eminent orators are analyzed by methods introduced in Dram. A. 209. Prereq., 203 and 208.
212. **PHONETICS** (3) Beckey
The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Discussion of various American dialects. Presentation of the sound systems of French, Italian, Spanish, and German. Prereq., 6 hrs. or permission.
220. **CLINICAL METHODS** (3) Beckey
An intensive study of various methods employed in the field of speech correction. Practical clinical experience. 1 lec. and 4 lab. Prereq., 10 hrs. including 195.

225. PROBLEMS IN SPEECH CORRECTION (2-3) Staats, Beckey
Case symptoms characteristic of major deviations from accepted speech, and current remedial techniques. Prereq., 12 hrs.
391. SEMINAR IN SPEECH (2-3) Staats
Problems in speech, the various speech movements, and the evolution of the speech curriculum. Remedial speech demands in the elementary and secondary school work. Assigned problems. Prereq., 15 hrs.
395. THESIS (4-8) The staff
Prereq., permission.

ECONOMICS—See Commerce

- EDUCATION Professors Morton, McCracken, Sias, Beechel,
Hansen, Benz, Class
Associate Professors Hampel, Shoemaker
Instructor Quick

ELEMENTARY EDUCATION

111. ELEMENTARY EDUCATION (6) Class, Quick
Principles, management, and tests in elementary education. A unitary course to parallel observation and student teaching in the kindergarten and elementary school. 2 lec. and 8 lab. Fee, \$6.
112. PRINCIPLES OF ELEMENTARY EDUCATION (3) Beechel
A study of the aims of education; the nature of the learner and of society, and the sociological needs of contemporary life. Prereq., sophomore or junior rank.
113. EDUCATIONAL TESTS AND MEASUREMENTS (2) Class
Standardized and informal new-type tests for the elementary grades and the junior high school; problems involved in the building, administering, scoring, and interpretation of results of the tests. Fee, \$2.
210. ADMINISTRATION OF THE ELEMENTARY SCHOOL
(See School Administration and Supervision).
211. THE ELEMENTARY CURRICULUM (3) Beechel
A study of the changing pattern of curriculum making in the elementary school: child growth and child development as important factors, the broadening social responsibility of the school, and the widening scope of education. Prereq., 6 hrs. education and Psych. 5.
212. THE SUPERVISION OF ARITHMETIC (3) Morton, Benz
The improvement of the course of study and classroom technique, textbook analysis and rating, preparation of instructional material, evaluation of courses of study, and psychological analysis of skills. Prereq., 3 hrs. education and Psych. 5.

HISTORY AND PHILOSOPHY

150. HISTORY OF MODERN ELEMENTARY EDUCATION (3) Shoemaker
The development of elementary education with particular emphasis on the European background and on the social and philosophical forces which have conditioned elementary education in the United States.
243. THE FEDERAL GOVERNMENT AND EDUCATION
(See School Administration and Supervision).
250. THE HISTORY OF EDUCATION (3) Shoemaker
Begins with a study of education among primitive peoples and ends with the scientific movement. Studies the agencies of education and the social forces which have conditioned them during ancient and medieval times, with particular emphasis on the Greeks, Romans, Christians, Renaissance, Protestant revolts, and science. Prereq., 3 hrs. education and Psych. 5.
251. THE HISTORY OF EDUCATION (3) Shoemaker
Deals with the history of education in western Europe and the United States from about 1750 to the present. The evolution of state systems of schools and of various theories and practices of education are traced in some detail. Considerable emphasis is placed on the educational significance of autocratic and democratic movements, of the industrial revolution, and of nationalism. Prereq., 3 hrs. education and Psych. 5.
252. HISTORY OF SECONDARY EDUCATION (2) Shoemaker
Traces the history of secondary education in western civilization. Special attention is given to England, France, Germany, and the United States. Prereq., 3 hrs. in history of education and Psych. 5.
253. THE HISTORY OF EDUCATION IN OHIO (3) Shoemaker
The history of education in Ohio is sketched from the time of its settlement to the present, with particular emphasis on the social and environmental factors which have done most to influence educational attitudes and the status of education in the state. Prereq., 3 hrs. education and Psych. 5.
254. COMPARATIVE EDUCATION (3-6) Shoemaker
A comparative study of national school systems with special emphasis on Russia, Germany, England, France, Italy, and the United States. Prereq., 9 hrs. education including 3 hrs. history of education, and Psych. 5.
255. PHILOSOPHY OF EDUCATION (3) Class
A summarizing course in which each student is helped consciously to formulate his philosophy of education. Prereq., 9 hrs. education.
256. PROGRESSIVE EDUCATION (3) Hampel
A study of a movement in education which questions beliefs, judgments, and practices in organized education. Recent biological, psychological, and sociological findings are studied. Prereq., 12 hrs. education and Psych. 5.

257. CURRENT EDUCATIONAL LITERATURE (3) Class
A comprehensive study of current contributions to education. Prereq., 6 hrs. education and Psych. 5. Fee, \$3.
258. THE EVOLUTION OF EDUCATIONAL THOUGHT (3-5) Shoemaker
Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbert, and Dewey. Prereq., 6 hrs. education and Psych. 5.
259. HISTORY OF EDUCATION IN THE UNITED STATES (3) Shoemaker
Shows the European social, economic, and political influence on colonial life and education. The rise and development of public education in the United States is developed in considerable detail. Prereq., 3 hrs. education and Psych. 5.

KINDERGARTEN-PRIMARY

1. PLAY AND PLAY MATERIALS (2) Wilson
Play and its importance in child development, equipment and play materials, development of organized games.
2. LITERATURE FOR EARLY CHILDHOOD (3) Quick
Children's literature, source material, standards of selection, planning story groups for special occasions, dramatization, and experience in story telling.
101. ACTIVITIES FOR EARLY CHILDHOOD (3) Hoyle
A study of criteria for selecting and evaluating activities to determine the outcomes of these activities in terms of child growth. Learning experiences are planned and carried out in the laboratory. 2 lec. and 2 lab. Prereq., 1 yr. college work. Fee, \$3.
201. KINDERGARTEN-PRIMARY CURRICULUM (3) Quick
The principles and factors underlying the selection and organization of the content and the construction of a curriculum for kindergarten-primary grades. Some phases of curriculum construction. Prereq., 6 hrs. education and Psych. 3 or 5.
202. SURVEY OF EARLY CHILDHOOD EDUCATION (3) Quick
The articulation of the nursery school, kindergarten, and primary grades; recent movements in the kindergarten-primary field, and investigation in a special field of interest. Prereq., 111, 201, and Psych. 3 or 5.
203. SUPERVISION IN KINDERGARTEN-PRIMARY EDUCATION (3) Quick
Supervisory activities, the supervisor and teachers in service, observation of teaching, and principles underlying the improvement of teaching. Not open to juniors. Prereq., 6 hrs. education and a major in elementary education.
204. STUDIES IN EARLY CHILDHOOD EDUCATION (3) Quick
This course provides an opportunity for a critical review of trends, practices, and methods in early childhood education and an evaluation in

terms of progressive theory. Prereq., 6 hrs. education and a major in elementary education.

LABORATORY SCHOOL SUPERVISION

271, 272. LABORATORY SCHOOL PROBLEMS (2) Class

For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Not open to juniors. Prereq., 6 hrs. education and Psych. 5.

273. SUPERVISION OF STUDENT TEACHING

(4-6) Sias, Beechel, and supervising critics

Provides the novice supervising critic with experience in guiding the work of students who are doing student teaching. The regular supervising critic is directly in charge. Graduate students who have had successful teaching experience are admitted by permission. Prereq., 211 or 232, 255 or 256, and with 271 or 272.

RESEARCH AND SCIENTIFIC TECHNIQUES

281. EDUCATIONAL STATISTICS (3) Morton

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psych. 5.

282. ADVANCED EDUCATIONAL STATISTICS (3) Morton

Nonlinear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 281.

283. RESEARCH IN EDUCATIONAL STATISTICS (2-6) Morton

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 282 and permission.

284. RESEARCH IN EDUCATION (2-6) The staff

Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5.

285. RESEARCH IN TEACHING ARITHMETIC (2-6) Morton, Benz

The work consists of reading, laboratory practice, or research and experimentation. Prereq., 9 hrs. education, 63g, and Psych. 5.

286. RESEARCH IN TEACHING MATHEMATICS (2-6) Morton, Benz

Qualified graduate students are given an opportunity to work on special problems pertaining to the teaching of mathematics in the junior or senior high school. Credit to be assigned is determined by the professor in charge. Prereq., 18 hrs. education and mathematics.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS (2-8) The Sec. St. staff
(Same as Sec. St. 287) Prereq., 20 hrs. commerce, senior rank, and permission.
288. TECHNIQUES OF EDUCATIONAL RESEARCH (2) Benz
Designed to acquaint students with research techniques and materials in education. Reports of completed research are analyzed and evaluated. Practice is given in selecting and planning a research problem, in selecting the method of procedure, and in collecting and interpreting data. Recommended for those planning to write theses in any of the fields of education. Prereq., 9 hrs. education and Psych. 5.
391. SEMINAR IN BUSINESS TEACHING PROBLEMS (2-10) The Sec. St. staff
(Same as Sec. St. 391) Prereq., 20 hrs. commerce and permission.
392. SEMINAR—THE EVALUATIVE CRITERIA (2-3) Benz
A study of the work of the Cooperative Study of Secondary School Standards and the evaluative procedures developed. The course will include participation in at least one evaluation program. Prereq., 12 hrs. education and high school teaching experience.
395. THESIS (4-8) The staff
Prereq., permission.

SCHOOL ADMINISTRATION AND SUPERVISION

141. AUDIO-VISUAL EDUCATION (2) Hampel
The relationship of audio-visual aids to the learning experience, acquaintance with source materials in the field, laboratory and community participation in the use of projectors, slides, film strips, graphs, posters, etc. Prereq., 3 hrs. education and Psych. 5.
- 143-144. SCHOOL LIBRARY ADMINISTRATION (3) Keating and staff
The purpose of this course is to orient the student in the school library by instruction in its organization, maintenance, planning, and technical work. This course is for the teacher-librarian and in no sense prepares the student for full-time librarianship. Ed. 144 emphasizes children's literature, book and periodical evaluation.
203. SUPERVISION IN KINDERGARTEN-PRIMARY EDUCATION
(See Kindergarten-Primary).
210. ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Hampel
A consideration of the relationship of administration to the program of the elementary school: planning together and extending the democratic vision of, and participation in, the elementary school. Prereq., 3 hrs. education and Psych. 5.
240. SCHOOL ADMINISTRATION (3) McCracken
The place of the federal government, state, county, and city in education; the superintendent, his powers and duties; and the organization and administration of the public school system. Prereq., 3 hrs. education and Psych. 5.

241. SCHOOL FINANCE

(3) Sias

The place of school finance in the field of public finance, the sources of data, the sources of revenues, expenditures, economies, equalization, control of funds, and indebtedness. Prereq., 6 hrs. education including 3 hrs. of school administration, and Psych. 5.

242. CHILD ACCOUNTING (Summer session only)

(2)

Records and reports which should be available for an intelligent understanding of the welfare of the child. Prereq., 3 hrs. education and Psych. 5.

243. THE FEDERAL GOVERNMENT AND EDUCATION

(3) Shoemaker

Studies the historical factors which have affected the attitude of American people toward government, traces the increasing activity in education of the federal government, and suggests plans for the coordination of federal, state, and local school units. Prereq., 6 hrs. education including 3 hrs. in history of education, and Psych. 5.

244. PROBLEMS IN SCHOOL ADMINISTRATION

(3) Sias

A course treating intensively special problems in school administration. The problems are determined by the interests of the students. Prereq., 9 hrs. education including 230 or 240.

245. THE STATE IN EDUCATION

(2) Sias

The organization of state boards of education and departments of public instruction and the principles involved in their administration of state school problems. Prereq., 6 hrs. education and Psych. 5.

246. SUPERVISION OF INSTRUCTION

(3) Beechel

The evolution of supervision, outstanding supervisory programs, principles underlying democratic supervision, techniques which promote the growth of the teacher in service. Prereq., 12 hrs. education including 201, 211, 232, or 255.

246a. SUPERVISION OF INSTRUCTION, LABORATORY PROBLEMS

(2-6) Beechel

The course provides a study of actual problems in public school supervision, including the planning, developing, directing, and evaluating of instruction. Prereq., 246 and 255 or 256. Graduate students and seniors with successful teaching experience are admitted by permission.

246b. WORKSHOP IN ELEMENTARY EDUCATION (Summer session only)

(6-8) Beechel, Quick and consultants

A comprehensive and thorough study of the problems of the elementary school and the curriculum. The course is designed to provide opportunities for guidance and participation in attacking problems brought in from actual experience in the field. Graduate students may earn not to exceed 8 hours in this course. Prereq., 15 hrs. education, senior or graduate rank, teaching experience, and permission.

247. ADVANCED EDUCATIONAL MEASUREMENTS

(3) Benz

An advanced course in measurement and the evaluation of learning. The responsibility of the school administrator for the encouragement of

the proper evaluation of the school practices under his supervision will be emphasized in the course. Attention is given to the newer procedures developed in recent years. Prereq., 9 hrs. education and Psych. 5.

247a. VISITING TEACHER (Summer session only) (3) MacTavish

(Same as Soc. 247a) A survey course in case work for teachers to consider the specific functions, relationships, and objectives of social case work in a school setting; the study of individual personalities of children and their behavior problems in relation to the school, home, and community; the demonstration of the effectiveness of early constructive work with individual maladjustments; supervised field work practice in visiting teacher work through the use of actual problem cases from the public schools. 3 lec. and field work. Prereq., 6 hrs. sociology, teaching experience, and permission. Fee, \$3.

248. VOCATIONAL GUIDANCE (2) Class

The various phases of educational and vocational guidance. Prereq., 6 hrs. education and Psych. 5.

249. ART SUPERVISION AND CURRICULA (2) Way

(Same as P.A.A. 249) Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h.

250h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(3) Patterson
(Same as H. Ec. 250h) Opportunity for individual selection of problems. Prereq., 168h and 18 hrs. home economics.

SECONDARY EDUCATION

130. PRINCIPLES OF SECONDARY EDUCATION (3) Benz, Shoemaker

The general purpose of secondary education, relation to other levels of education, content and organization of curricula, and other topics. Not open to first semester sophomores.

131. EDUCATIONAL TESTS AND MEASUREMENTS (2) Benz

Standardized and informal new-type tests for the senior high school. Problems involved in the building, administering, scoring, and interpretation of results of tests. Fee, \$2.

230. HIGH SCHOOL ADMINISTRATION (3) Morton, Sias

Problems of school and class organization, discipline, grading, curricula, guidance, and extraclass activities in the secondary school. Prereq., 3 hrs. education and Psych. 5.

231. THE JUNIOR HIGH SCHOOL (Summer session only) (2) Sias

The development, organization, and administration of the junior high school including objectives, curricula, guidance program, methods of instruction, and student activities. Prereq., 9 hrs. education and Psych. 5.

232. THE HIGH SCHOOL CURRICULUM (2) Benz

The high school program of studies, the contributions of various

subjects, integration, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education including 130.

235. COMMERCIAL CURRICULUM CONSTRUCTION (2) Miller
(Same as Sec. St. 235) A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.
392. SEMINAR—THE EVALUATIVE CRITERIA (2-3) Benz
(See Research and Scientific Techniques.)

SPECIAL EDUCATION

221. ORGANIZATION OF SPECIAL CLASSES (2) DeLand
Need of special education; history of the various classes for sight-saving, crippled, hard of hearing, mentally retarded, and defective in speech; selection and classification of children; cooperation with other departments; case studies and record taking; and direction and after-care of special class children. Prereq., 3 hrs. education and Psych. 5.
222. DIAGNOSIS AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS (2) DeLand
A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with problem children. Prereq., 3 hrs. education and Psych. 5.
223. CURRICULUM FOR SPECIAL CLASSES (3) DeLand
Types of curricula for special education, units of work, materials, and subject matter suited to the mental ability and level, and methods of presentation and handling such units. Prereq., 3 hrs. education and Psych. 5.

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION*

171. OBSERVATION AND PARTICIPATION IN KINDERGARTEN - PRIMARY GRADES (3) Sias and supervising critics
Prereq., with 172.
172. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES (4) Sias and supervising critics
Prereq., with 171. Fee, \$8.
173. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES (2) Sias and supervising critics
Students specializing in kindergarten do this two hours of student teaching in the first and second grades; those specializing in primary grades, in the kindergarten. Prereq., 172. Fee, \$4.
174. ADVANCED STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES (2-4) Sias and supervising critics
Prereq., 172, 173, and senior rank. Fee, \$2 for each credit hour.

*A complete statement of requirements is on page 84.

175. OBSERVATION AND PARTICIPATION IN INTERMEDIATE GRADES
(3) Sias and supervising critics
Prereq., with 176.
176. STUDENT TEACHING IN INTERMEDIATE GRADES
(4) Sias and supervising critics
Prereq., with 175. Fee, \$8.
177. ADVANCED STUDENT TEACHING IN INTERMEDIATE GRADES
(2-4) Sias and supervising critics
Prereq., 176 and senior rank. Fee, \$2 for each credit hour.
178. STUDENT TEACHING IN SPECIAL EDUCATION (4) Sias, DeLand
Prereq., with 175. Fee, \$8.
180. OBSERVATION AND PARTICIPATION IN HIGH SCHOOL, ACADEMIC SUBJECTS (3) Sias
Prereq., junior or senior rank.
181. STUDENT TEACHING IN HIGH SCHOOL, ACADEMIC SUBJECTS (4) Sias
Prereq., 180 or with 180, and senior rank. Fee, \$8.
182. OBSERVATION AND PARTICIPATION IN SPECIAL SUBJECTS (3) Sias and departmental supervisors
Prereq., junior or senior rank.
Majors in art and music observe largely in the elementary schools.
Majors in commerce and industrial arts observe in the junior and senior high schools.
Majors in home economics take the course in conjunction with Ed. 183.
Majors in physical welfare divide the observing time equally between the elementary grades and the high school.
183. STUDENT TEACHING IN SPECIAL SUBJECTS (2-4) Sias and departmental supervisors
The subjects are art, commerce, home economics, industrial arts, music, and physical welfare. Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit hour.
273. SUPERVISION OF STUDENT TEACHING
(See Laboratory School Supervision)

TEACHING TECHNIQUES

Agriculture

- 168a. TEACHING OF AGRICULTURE (3) Copeland
(Same as Agr. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures. Prereq., 8 hrs. agriculture and permission.

Botany

- 168b. TEACHING OF BOTANY (2) Matheny
(Same as Bot. 168b) A review of the various methods now employed, followed by actual practice in field-work, laboratory procedures, and lectures. Prereq., 1 yr. of botany or of zoology.

- 168g. TEACHING OF GENERAL SCIENCE (2) Matheny
 (Same as Bot. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also, a review of many science texts now in use. Prereq., 1 yr. of science.

Chemistry

- 168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE (2-4) Morton
 (Same as Chem. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission.

Commerce

- 161a. TEACHING OF BUSINESS SUBJECTS (2) Snook
 (Same as Sec. St. 161a) Prereq., junior or senior rank.
- 161b. TEACHING OF BOOKKEEPING (2) Beckert
 (Same as Acct. 161b) Prereq., Acct. 125.
- 161s. TEACHING OF SHORTHAND (2) Miller
 (Same as Sec. St. 161s) Prereq., Sec. St. 151 or an 80-word dictation test.
- 161t. TEACHING OF TYPEWRITING (2) Sponseller
 (Same as Sec. St. 161t) Prereq., Sec. St. 16 or 111.

Dramatic Art

- 162h. TEACHING OF HIGH SCHOOL DRAMATICS (2) Dawes
 (Same as Dram. A. 162h) Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs. dramatic art, 12 hrs. English, and permission. Teaching experience may be accepted in lieu of course prerequisites.
- 162s. TEACHING OF SPEECH IN THE GRADES (2) Dawes
 (Same as Dram. A. 162s) The various phases of speech pertaining to work in the elementary grades. Assembly programs, oral interpretation, intraclass and interclass debates, platform delivery, and educational dramatics.
- 162x. TEACHING OF SPEECH IN THE HIGH SCHOOL (2) Staats
 (Same as Dram. A. 162x) Emphasis placed on indicated procedures in high school speech classes; a comprehensive survey of the literature and material adapted to speech training in high schools; and the correlation of speech work with extracurricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., Dram. A. 12, 15, 25, or permission.

Elementary Education

- 63a. TEACHING OF READING IN PRIMARY GRADES (2) Hampel
 Discussion, research, and observation of modern approaches to the first reading experiences with some laboratory and community experi-

ences to develop background meanings and participation in home, school, and community groups.

63b. TEACHING OF READING IN INTERMEDIATE GRADES (2) Hampel

Discussion, research, and observation relative to needs and development of reading power as children in the intermediate grades make use of reading in order to solve problems and to enrich experiences.

63g. TEACHING OF ARITHMETIC IN INTERMEDIATE GRADES (3) Morton

Methods of presenting the subject matter of the arithmetic curriculum in grades 4, 5, and 6; results of experimental investigation; standardized tests and mechanical drill devices.

63p. TEACHING OF ARITHMETIC IN PRIMARY GRADES (3) Morton

Methods of teaching the subject matter of the arithmetic curriculum in grades 1, 2, and 3; results of experimental studies and of recent developments in educational psychology.

63s. TEACHING OF ARITHMETIC IN UPPER GRADES (3) Morton

Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic as a liberal education.

64g. TEACHING OF LANGUAGE ARTS IN THE GRADES (2) Hampel

A study of the expressive arts, creative expression, and the development of related skills. Prereq., Eng. 1 or 3.

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES

(3) Hampel

(Same as Geog. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon history and geography.

English

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray

(Same as Eng. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., Eng. 2 or 4 and junior or senior rank.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray

(Same as Eng. 164b) A study of the content and presentation of grammar and composition. Prereq., Eng. 2 or 4 and junior or senior rank.

French

165f. TEACHING OF FRENCH (2) Noss

(Same as Fr. 165f) Prereq., Fr. 102.

165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR

(2-3) Wilkinson

(Same as Fr. 165o) Prereq., Fr. 261 or, in unusual cases, special permission and Fr. 102.

Geography

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES

(3) Hampel

(Same as Geog. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon geography and history.

169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL

(3) Cooper

(Same as Geog. 169g) The course deals with the professionalized subject matter of geography in the upper grades and high school.

German

165g. TEACHING OF GERMAN

(2) Hess

(Same as Ger. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission.

Government — see History

History

169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR HIGH SCHOOLS

(2) E. B. Smith

(Same as Hist. 169h) The development of history and civics as school subjects: objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects.

169s. TEACHING OF SOCIAL SCIENCE

(2) Jeddleloh

(Same as Soc. 169s) A study of objectives and other basic aspects of the social science curriculum; the construction of courses of study; an examination of classroom, laboratory, and field techniques; and a discussion of the professional relations of the social science teacher to school and community.

Home Economics

168h. TEACHING OF HOME ECONOMICS

(3) Patterson

(Same as H. Ec. 168h) Homemaking curricula, organization, and procedure in secondary schools. Consideration of objectives and needs for various groups. Methods of instruction applicable to this field. Participation in home projects, field trips, and observations of various kinds including adult groups in homemaking classes. Prereq., 12 hrs. home economics.

Industrial Arts

160m. TEACHING OF INDUSTRIAL ARTS

(3) Kinison

(Same as Ind. A. 160m.) This course deals with the methods of presenting technical and related information in school shop laboratories, and with the procedure to follow in giving demonstration with tools and

tool processes. Special attention is given to the methods of testing and grading of manipulative work. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. industrial arts and permission.

Journalism

164j. TEACHING OF HIGH SCHOOL JOURNALISM (2) Lasher
 (Same as Jour. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing. Attention to preparation of school publicity copy for newspapers.

Latin

165r. TEACHING OF LATIN (2) Hill
 (Same as Lat. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks, and important reference material. Some study of important principles of the language. Prereq., Lat. 103 or permission.

Mathematics

168m. TEACHING OF MATHEMATICS IN HIGH SCHOOL (3) Denbow
 (Same as Math. 168m) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to high school students. Prereq., Math. 6 and P'sych. 5.

Music

166b. TEACHING OF INSTRUMENTAL MUSIC (3) Ingerham
 (Same as Mus. 166b) Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras.

166d. TEACHING OF DANCES AND GAMES* (1) Danielson
 (Same as Mus. 166d) Dances and games for grades 1 to 8 and methods of presentation.

166e. TEACHING OF MUSIC IN ELEMENTARY GRADES (2) Danielson
 (Same as Mus. 166e) Fee, \$1.

166f. TEACHING OF MUSIC IN FIRST SIX GRADES (3) Danielson
 (Same as Mus. 166f)

166j. TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOL (3) Danielson
 (Same as Mus. 166j)

166p. TEACHING OF CLASS PIANO (1) Witham
 (Same as Mus. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation

*This course may be substituted by school music majors for one hour of required physical welfare.

in classroom teaching and survey of teaching materials. Two hours a week. Prereq., the equivalent of 2 hrs. piano.

166s. TEACHING OF CLASS STRINGED INSTRUMENTS (1) Thackrey
(Same as Mus. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in piano class work in training school. Two hours a week.

166v. TEACHING OF CLASS VOICE (2) Robinson
(Same as Mus. 166v) The aim of this course is to develop better choral singing in the schools through the improvement of the individual voice: collective security in pitch, uniformity in vowelization, reconciliation of vocal fundamentals with musical expression. Four hours a week. Prereq., 2 hrs. voice.

166w. TEACHING OF CLASS WIND INSTRUMENTS (1) Thackrey
(Same as Mus. 166w) See Ed. 166s.

Painting and Allied Arts

60c. TEACHING OF DESIGN FOR EARLY CHILDHOOD (1) Leonard, Calkin
(Same as P.A.A. 60c) 1 lec. and 1 lab. Prereq., P.A.A. 3.

60g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES (1) Leonard, Calkin
(Same as P.A.A. 60g) 1 lec. and 1 lab. Prereq., P.A.A. 3.

160h. TEACHING OF THE SPACE ARTS (2) Way
(Same as P.A.A. 160h) Prereq., P.A.A. 103, 115, and 117, or permission.

Physical Welfare

167a. TEACHING OF COACHING—WOMEN (2) Hatcher
(Same as P.W. 167a) Theory and practice of coaching field hockey, soccer, and basketball.

167b. TEACHING OF COACHING—WOMEN (2) LaTourrette
(Same as P.W. 167b) Theory and practice of coaching volleyball, baseball, track, and field activities.

167d. COACHING OF BASEBALL (1) Peden
(Same as P.W. 167d)

167e. COACHING OF BASKETBALL (2) Trautwein
(Same as P.W. 167e)

167f. COACHING OF FOOTBALL (2) Peden
(Same as P.W. 167f) Prereq., junior rank.

167h. TEACHING OF HEALTH (2) Trepp
(Same as P.W. 167h) Instruction, principles, and curricula used in presenting health information to children of the different school levels. Prereq., P.W. 22.

- 167k. TEACHING OF PHYSICAL WELFARE IN JUNIOR AND SENIOR HIGH SCHOOLS—WOMEN (2) Hatcher
(Same as P.W. 167k)
- 167n, 167o. TEACHING OF RHYTHMIC ACTIVITIES—WOMEN (1) Marting
(Same as P.W. 167n, 167o) Methods of teaching folk, tap, ballroom, and modern dance.
- 167p. TEACHING OF PHYSICAL WELFARE (1) Rhoads
(Same as P.W. 167p) Physical education for elementary and secondary schools. Not required of majors.
- 167s. TEACHING OF SWIMMING—WOMEN (2) Kellner
(Same as P.W. 167s) Methods and practice in the teaching of swimming.
- 167t. COACHING OF TRACK (1) Herbert
(Same as P.W. 167t)

Physics

- 168p. TEACHING OF PHYSICS (Summer session only) (2) Edwards
(Same as Phys. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics.

Sociology — see History

Spanish

- 165s. TEACHING OF SPANISH (2) Whitehouse, Ondis
(Same as Sp. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., Sp. 102.

Zoology

- 168z. TEACHING OF ZOOLOGY (2) Stehr
(Same as Zool. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., Zool. 4 and an additional laboratory course in zoology.

ELECTRICAL ENGINEERING

Professors Young, Green
Associate Professor McClure
Instructors Lausche, MacKichan

I. ENGINEERING ORIENTATION

(1) Young

A preview of engineering curricula and a consideration of engineering as a profession. The legal, social, and political aspects of engineering, together with the personal and social elements involved, are reviewed.

101. PRINCIPLES OF RADIO

(3) Green

Preliminary study of electrical circuits, resonance and tuning applications, the vacuum tube, amplifier circuits, the complete receiver, radio transmitters, antennae and transmission lines. Laboratory work parallels the theory and includes such experiments as measurement of coils and condensers, use of frequency meters, assembling and aligning of receivers, tuning and operation of transmitters, and elementary measurement of radio field intensity. 2 lec. and 2 lab. Prereq., Math. 6. Fee, \$3.

103-104. PRACTICAL ELECTRICITY

(3) MacKichan

Elementary principles of electricity. Practical working principles of batteries, generators, transformers, motors and motor control equipment; refrigeration; lighting; protective devices; communication by means of telegraph, telephone, radio, and teletype. The laboratory includes practice in wiring, construction of a transformer, motor armature wiring, repairing of motors and household appliances. 2 lec. and 2 lab. Fee, \$3.

106. COMMERCIAL RADIO

(2) Green

Detailed study of the principles, construction, and operation of radio transmitters and receivers, including both short wave amateur type and the commercial broadcast station. Students practice adjusting and operating radiophone transmitters. Inspection trip to some commercial station. 1 lec. and 2 lab. Fee, \$2. Prereq., 101 or permission.

127. ELEMENTS OF ELECTRICAL ENGINEERING

(3) Green

A study of direct and alternating current motors and generators, starting devices, electric wiring, distribution and transmission systems, transformers, illumination systems, meters, and switching. For non-electrical students. 2 lec. and 2 lab. Prereq., Phys. 3, 4 or 113, 114. Fee, \$3.

129-130. CIRCUITS AND MACHINERY

(3) MacKichan

The theory and operation of direct and alternating current machines and operators. For nonelectrical students. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

133. ILLUMINATING ENGINEERING

(2) Roseberry

Principles of light and radiation; various light sources, their characteristics and efficiencies; principles and practice of photometry; design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 1 lec. and 2 lab. Prereq., Math. 118 and Phys. 114. Fee, \$2.

137. ELECTRON TUBES IN INDUSTRY

(3) Green

Industrial applications of thermionic tubes in devices such as the grid-controlled rectifier, stroboscope, time delay relay, telemeter, voltage regulator, photo-electric counter, and traffic controller. Prereq., 101 or 106.

143-144. ELECTRICAL ENGINEERING

(4) McClure

Direct current electrical and magnetic circuit analysis, D. C. machine characteristics and operation, A. C. circuits including complex circuit analysis and wave analysis. Prereq., Math. 118 and Phys. 113, 114.

145-146. DYNAMO AND MEASUREMENTS LABORATORY (3) McClure

Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Prereq., with 143-144. Fee, \$3.

149-150. ELECTRICAL MEASUREMENTS THEORY (2) McClure

Fundamental theory of the potentiometer, galvanometer, magnetic oscillograph, permeameter, methods of calibrating ammeters, voltmeters, wattmeters, watt-hour meters, both D. C. and A. C. instruments. Methods of measuring resistance, inductance, capacitance; a study of transients and wave analysis, resonance phenomena. Prereq., with 143-144.

203-204. COMMUNICATION ENGINEERING AND ADVANCED CIRCUIT ANALYSIS (4) Green

A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, vacuum tubes, amplifiers, modulators, radiation and applications to radio and telephone apparatus. Laboratory follows theory closely. 3 lec. and 2 lab. Prereq., 144. Fee, \$4.

205. SCHOOL ACOUSTICS (2) Green

A course suitable for music majors, teachers, school administrators, and architects. It treats sound generators, fundamental and harmonic frequencies of strings, pipes, and plates. The principles of operation of amplifiers, microphones, public address systems, sound movies, sound recording and reproducing, and the acoustics of auditoriums and broadcasting studios. Prereq., 12 hrs. physics, or music (including 104), or dramatic art, or education.

211-212. ADVANCED RADIO LABORATORY (1-2) Green

Special problems of current interest in the field of radio engineering. 2-4 lab. Prereq., 101 or 203. Fee, \$1 for each credit hour.

225. ACOUSTICS (3) Green

Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement; characteristics of speakers, microphones, and receivers; design of horns; acoustics of auditoriums, theaters, and broadcasting studios; public address systems. Laboratory includes measurements with cathode ray oscillograph, sound intensity meters, standard oscillators, and acoustic bridges. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

229. ENGINEERING THERMODYNAMICS (3) Lausche

Energy equations, entropy, properties and thermodynamic processes of gases, compressed air engines, the Otto and Diesel cycles and engines, the properties of steam engine and vapor cycles, steam engines and turbines, principles of refrigeration. Prereq., Math. 118 and Phys. 113, 114.

230. HEAT POWER ENGINEERING (3) Lausche

Solid, liquid, and gaseous fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheat-

ers, superheaters, stacks, forced and induced draft, boiler feed pumps, steam engines and turbines, condensers, gas and oil engines. Prereq., 229 or permission, and Math. 118.

232. HEAT POWER LABORATORY (1) Lausche
Calibration of testing instruments and the proximate analysis of coal. Tests on the steam engine, turbine, boilers, and feed pumps at the heating plant. 2 lab. Prereq., with 230. Fee, \$1.
235. ELECTRICAL TRANSMISSION OF POWER (3) Green
Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 144.
- 243-244. ELECTRICAL ENGINEERING (4) MacKichan
Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and asynchronous motors, advanced circuit analysis. Prereq., 144 and 146.
- 245-246. ELECTRICAL ENGINEERING LABORATORY (2) McClure and assistants
A. C. circuit measurements, transformer grouping and testing, measurement and predetermination of characteristics of A. C. machinery. 4 lab. Prereq., with 243-244. Fee, \$2.
248. ELECTRICAL DESIGNS (3) Green
Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 243.
- 271, 272. ENGINEERING ELECTRONICS (3) Green
A comprehensive theoretical treatment of the fundamentals of electronics and of the general properties of electronic tubes with application to engineering. Prereq., Math. 118 and Phys. 114.
- 291-292. STUDIES IN ELECTRICAL ENGINEERING (1) Young
Discussions of recent developments in electrical engineering and allied fields, abstracts of current articles. Problems in design. Prereq., 15 hrs.
- 301-302. ADVANCED ACOUSTICS (2) Green
A study of acoustics based on the fundamental dynamical theory of sound. General equations of sound propagation are developed and applications made to engineering practice. Prereq., Math. 118 and Phys. 113, 114.
303. TRANSMISSION NETWORKS (3) Green
An advanced theoretical study of communication circuits including general network theorems, transition and transmission losses, corrective networks, wave filters, superimposed circuits, repeaters and circuit efficiencies. Prereq., 204, 244, 246, and Math. 215.
- 305-306. PROBLEMS IN ADVANCED A. C. MACHINERY (3) McClure
Problems taken up deal with transient conditions in alternators,

motors, and transformers. Development of theory of symmetrical components and applications to unbalanced loads on alternators and transmission systems. 2 lec. and 2 lab. Prereq., 244 and 246. Fee, \$3.

310. ELECTRICAL STATION DESIGN (3)

The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Power plant visitation and reports. Prereq., 229, 230, and 244.

281. RESEARCH IN ELECTRICAL ENGINEERING (1-3) Green

A course for graduate students and the occasional undergraduate student who desires to do some original work in experimental engineering. Prereq., 144, Math. 118, and Phys. 114.

391. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING (1-2) The staff
Prereq., 15 hrs.

395. THESIS (6) The staff
Prereq., permission.

ENGLISH

Professors Wilson, Mackinnon, Wray,
Foster, Heidler, Caskey

Associate Professors Kahler, Peckham, McQuiston

Assistant Professors Lash, Kirchner

Instructors Emery, Roberts, Kendall, Harrison, Davidson, Pattison

The major requirement in English for the A. B. degree includes: Eng. 3-4, 101, 102 (12); American literature (3); and (11) from three of the following periods: Early and Middle English (2-3), sixteenth and seventeenth centuries (3-6), eighteenth century (2-4), nineteenth and twentieth centuries (3-6), and electives.

1-2. ENGLISH COMPOSITION (3) The staff

Eng. 1 places emphasis upon the grammatical elements of English composition. It is designed for students whose grades in proficiency tests indicate a need for additional drill in spelling, punctuation, and sentence structure. Eng. 2 is devoted to a thorough study of the structure of expository composition with special attention to oral English.

3-4. ENGLISH COMPOSITION (3) The staff

A course in the fundamentals of composition, the structure of the paragraph, and the writing of exposition. Students who make unusually high grades in the proficiency tests are excused from Eng. 3 and allowed to enter Eng. 4. Eng. 4 places emphasis on the study of models of argumentation, description, and narration and gives special attention to oral English.

10. JUVENILE LITERATURE (2) Kahler

A study of myths, fables, fairy stories, folklore, and one epic. Language work. Prereq., 1 or 3.

- 101, 102. SOPHOMORE ENGLISH LITERATURE (3) The staff
 The course is devoted to a study of the works of eight or ten of the chief English authors from the beginnings of English literature to the middle of the eighteenth century. Eng. 102 begins with the middle of the eighteenth century and continues the study to the present. Prereq., 2 or 4.
111. THE CHIEF AMERICAN WRITERS (3) The staff
 A study of representative material, prose and poetry, selected from Franklin, Freneau, Irving, Cooper, Bryant, Emerson, Thoreau, Hawthorne, and Whittier. Prereq., 2 or 4.
112. THE CHIEF AMERICAN WRITERS (3) The staff
 A continuation of Eng. 111. Emphasis is placed upon selected prose and poetry from Poe, Holmes, Longfellow, Lowell, Whitman, Mark Twain, Henry Adams, Lanier, and William James. Prereq., 2 or 4.
114. ENGINEERING ENGLISH (2) Harrison
 An application of the principles of English to the technical exposition of engineering processes, problems, reports, abstracts; practice in writing business letters and letters of application. Prereq., 2 or 4.
130. ENGLISH PROSE OF THE NINETEENTH CENTURY (3) The staff
 Prereq., 102.
135. THE BIBLE AS LITERATURE (2) Foster
 A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., 2 or 4.
136. THE BIBLE AS LITERATURE (2) Foster
 The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., 2 or 4.
141. EUROPEAN DRAMA (2) Peckham
 Readings in English of typical plays by Sophocles, Plautus, Marlowe, Jonson, Moliere, Farquhar, Goldsmith, Sheridan, and Ibsen. Prereq., 2 or 4.
- 143, 144. COMPARATIVE LITERATURE (3) Heidler
 A course introducing the student to the most significant productions of Greece, Rome, Italy, Spain, France, Germany, and England. Whenever feasible, lectures on a foreign literature are delivered by a professor of that literature. Prereq., 2 or 4.
150. THE SHORT STORY (2) McQuiston
 A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prereq., 2 or 4.
- 164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray
 (Same as Ed. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., 2 or 4 and junior or senior rank.

- 164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray
(Same as Ed. 164b) A study of the content and presentation of grammar and composition. Prereq., 2 or 4 and junior or senior rank.
171. SOPHOMORE EXPOSITION (3) Heidler
A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student is supplemented by the study of meritorious examples from experienced writers. Prereq., 2 or 4.
175. CREATIVE WRITING (2-4) Mackinnon
The work is adapted to the individual and instruction is largely by conference. Prereq., 2 or 4 and junior or senior rank.
- 201, 202. SHAKESPEARE (3) McQuiston
Selected comedies, tragedies, and histories. Eng. 201 emphasizes the comedies; Eng. 202, the tragedies. Prereq., 12 hrs.
203. SIXTEENTH CENTURY LITERATURE (3) Wray
A study of the chief poets and prose writers. Prereq., 12 hrs.
204. ELIZABETHAN DRAMA, 1550-1642 (3)
A study of the English drama from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs.
205. SEVENTEENTH CENTURY LITERATURE (2) Roberts
(Exclusive of Milton and the drama) A study of the more significant writers of prose and poetry together with the main cultural and historical currents of the period. Prereq., 12 hrs.
207. MILTON (1942-1943) (2) Foster
Prereq., 12 hrs.
213. ENGLISH PROSE FICTION (3) Mackinnon
A study of the development of the English novel through different periods. Prereq., 12 hrs.
214. AMERICAN PROSE FICTION (3) Heidler
The development of the American novel from the colonial period to the present, with major emphasis upon late eighteenth century and nineteenth century productions. Prereq., 12 hrs.
- 215, 216. EIGHTEENTH CENTURY LITERATURE (2) Wilson
Eng. 215 presents the prose and poetry of the age of Pope; Eng. 216, from Johnson to the close of the century. Eng. 216 is not open to those who have had Eng. 218. Prereq., 12 hrs.
217. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY (2) Caskey
Readings from the chief dramatists of the Restoration and the eighteenth century. Prereq., 12 hrs.
218. EIGHTEENTH CENTURY ROMANTICISM (1942-1943) (2) Heidler
The course traces the beginnings of the movement with the Spen-

serians, Miltonic School, Chatterton, Ossian, the Gothic Romance, and others. Not open to those who have had Eng. 216. Prereq., 12 hrs.

221. WORDSWORTH AND COLERIDGE (2) McQuiston

A study of the principal poems of both poets and a less intensive survey of the rest of their work. Consideration of the poetical and philosophical theories of the two poets. Prereq., 12 hrs.

224. CONTINENTAL NOVEL (2) Lash

Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs.

225. RECENT BRITISH AND AMERICAN POETRY (3) Foster

A careful study of 10 or 12 authors who have made distinctive contributions to the poetry of England and America. Prereq., 12 hrs.

226. AMERICAN LITERATURE (3) Foster

A study of the social and cultural backgrounds of American literature. Prereq., 12 hrs.

231. LATER AMERICAN LIFE AND LITERATURE (1942-1943) (2) McQuiston

A study of the more important currents in American life and thought which have influenced the national literature since the Civil War. Prereq., 3 hrs. of English or American literature.

234. MODERN CONTINENTAL DRAMA (2) Peckham

A study of types and tendencies in European continental drama since Ibsen. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Strindberg, Brieux, Hauptmann, Maeterlinck, Rostand, Molnar, Chekov, Andreyev, Capek, and Vildrac. Prereq., 12 hrs.

236. MODERN DRAMA IN ENGLISH (1942-1943) (2) Peckham

This course alternates with Eng. 234. A study of types and tendencies in British, Irish, and American drama since 1880. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Jones, Pinero, Wilde, Galsworthy, O'Neill, Howard, Rice, and Green. Prereq., 12 hrs.

240. BYRON, SHELLEY, AND KEATS (2) Peckham

A study of the most important poems and of the relation of the poets to their age. Prereq., 12 hrs.

242. HISTORY OF LITERARY CRITICISM (1942-1943) (2) Wilson

A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prereq., 12 hrs.

245. TENNYSON AND BROWNING (3) Peckham

A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prereq., 12 hrs.

250. BOOKS OF THE SEASON (2-4) Mackinnon
An extensive reading course in the best books of the season. Prereq., 12 hrs.
254. LITERARY BIOGRAPHY (2) Wilson
A study of some of the important literary biographies and a consideration of tendencies in current biographical literature. Prereq., 12 hrs.
258. MIDDLE ENGLISH (3) Wray
A course designed to acquaint the student with the literature of the Middle Ages (exclusive of Chaucer) together with the changing language. Prereq., 12 hrs.
261. ENGLISH AND AMERICAN POPULAR BALLADS (2) Kirchner
Ballads, folk songs, and carols are studied not only with reference to their origin, nature, and transmission, but in connection with folk literature generally, with reference to their history and cultural significance. Prereq., 12 hrs.
270. SPENSER (1942-1943) (2) Wray
A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prereq., 12 hrs.
271. DANTE (IN ENGLISH) (2) Wilson
Prereq., 12 hrs.
273. CHAUCER (1942-1943) (3) Heidler
A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs.
275. ANGLO-SAXON (1942-1943) (2-3 as scheduled) McQuistor
A course in early English language and literature. Prereq., 12 hrs.
276. BEOWULF (1942-1943) (2-3 as scheduled) McQuiston
Reading and interpretation of the poem and consideration of its genesis, epic characteristics, and literary qualities. Prereq., 275.
277. THESIS WRITING (1) Caskey
A course for graduate students in all departments, with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs.
391. SEMINAR IN ENGLISH (2) Caskey
An introduction to literary research. Students are given an introduction to bibliography and methods of research in literary history. Minor problems are assigned. Prereq., 18 hrs. and permission.
395. THESIS (4-8) The staff
Prereq., permission.

FINANCE—See Commerce

FRENCH—See Romance Languages

GEOGRAPHY AND GEOLOGY

Professor Cooper
Associate Professor Dow
Instructor Potter

A major in the field of geography and geology may qualify for the positions of teacher, geographer, or geologist. Trained geographers and geologists are in demand in government bureaus and in business, in the fields of conservation of natural resources, weather bureau work, and in teaching.

GEOGRAPHY

The major requirement in geography for the A. B. degree is 30 semester hours in approved electives, including Geol. 1-2 or 125 and 126.

3-4. PRINCIPLES OF GEOGRAPHY (3) Cooper, Dow
Elementary courses in college geography emphasizing the causal relationships between life activities and the geographic environment.

101. INDUSTRIAL AND COMMERCIAL GEOGRAPHY (3) Dow
A study of the world's major products and their distribution and consumption. Not open to students who have had Ec. 15.

102. GEOGRAPHY OF NORTH AMERICA (3) Cooper
The course develops in detail the geography of the natural resources of the continent and the geographic influences which affect them.

105. GEOGRAPHY OF LATIN AMERICA (3) Cooper
See Geog. 102 for description.

108. GEOGRAPHY OF EUROPE (3) Dow
See Geog. 102 for description.

112. GEOGRAPHY OF ASIA AND ITS ISLANDS (3) Potter
See Geog. 102 for description.

131. GEOGRAPHY OF OHIO (2) Cooper
The geography of Ohio is developed from the regional point of view and by means of the problem method.

132. CONSERVATION OF NATURAL RESOURCES (3) Dow
A study of the vital problems of the conservation of soils, minerals, forests, wild life, and inland waters. Field trips.

145. GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY (3) Dow
A course developed to show the importance of geographic factors in history with special emphasis upon the history of the United States.

150. GEOGRAPHY AND ENVIRONMENT (3) Cooper
A course in the advanced principles of geography. Those aspects of geography which have to do with the adjustments of man and the responses of plants and animals to natural environment throughout the world are studied. Not open to students who have had Geog. 4.

- 169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES (3) Hampel
 (Same as Ed. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon geography and history.
- 169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL (3) Cooper
 (Same as Ed. 169g) The course deals with the professionalized subject matter of geography in the upper grades and high school.
170. GEOGRAPHY OF OUR NATIONAL PARKS (2) Potter
 An appreciative study of the outstanding scenic and scientific areas of the United States based on their geographic concepts and interrelationships.
201. METEOROLOGY (3) Dow
 Nature and causes of weather and the fundamentals of aeronautical meteorology including principles of air mass analysis. Special emphasis is placed upon the United States Weather Bureau and its work. 3 lec. and 1 lab. Prereq., 6 hrs., or 3 hrs. and 6 hrs. Physics. Fee, \$3.
202. CLIMATOLOGY (2) Dow
 Nature, causes, and effects of the various climates of the world. Locations and characteristics of the climatic regions with their related cultural aspects. Prereq., 6 hrs. including 201, or 201 and 6 hrs. physics.
210. POLITICAL GEOGRAPHY (3) Potter
 A study of the geography of international and state boundary lines, of colonial policies, and of the geographic principles which influence international relations and problems. Prereq., 6 hrs., or 3 hrs. and 6 hrs. history.
- 211, 212, 213. FIELD GEOGRAPHY (Post summer session only) (3) Dow, Potter
 Three days of lecture on the campus and 15 days of field work by bus. Interrelationships between man and his natural environment are studied through actual field observations and contact. Geog. 211 goes through New England and eastern Canada; Geog. 212 through Michigan, Wisconsin, and Minnesota; and Geog. 213 through the cotton belt, New Orleans, and other parts of the South. Geog. 213 will be offered in the post summer session of 1941. Prereq., 6 hrs. or permission.
215. CARTOGRAPHY AND GRAPHICS (1-2) The staff
 The elementary principles of map drawing and graph making. Pre-req., 6 hrs., or 3 hrs. and 6 hrs. civil engineering.
280. RESEARCH IN GEOGRAPHY (1-4) Cooper, Dow
 Prereq., 15 hrs.

GEOLOGY

The major requirement in geology for the B. S. degree is a minimum of 20 semester hours.

- 1-2. **ELEMENTARY GEOLOGY** (3) Dow, Potter
 An introductory laboratory course in earth science. The earth's features are studied with reference to their origin and significance and emphasis is given to physiographic changes now in progress. This course is a desirable prerequisite for all courses in geography and geology except Geol. 125. 2 lec., 2 lab., and field trips. Fee, \$3.
125. **PHYSICAL GEOLOGY** (3) Dow
 A survey of physical geology for upperclassmen who have not taken Geol. 1-2. The course is concerned with the study of geological features and the agencies that produce them. 2 lec., 2 lab., and field trips. Fee, \$3.
126. **HISTORICAL GEOLOGY** (3) Potter
 A history of the earth with special emphasis on the evolution of the North American continent and the development of life. Hypotheses for the origin of the earth are considered. 2 lec., 2 lab., and field trips. Pre-req., 2 or 125. Fee, \$3.
127. **ROCKS AND MINERALS** (3) Potter
 An elementary course in rocks and minerals with emphasis on identification, physical properties, crystal forms, and classification. 2 lec. and 2 lab. Prereq., 2 or 125, or 3 hrs. and 6 hrs. physical science. Fee, \$3.
133. **ENGINEERING GEOLOGY** (3) Potter
 A study of the principles, methods, and materials of geology of value to engineers. 2 lec., 2 lab., and field trips. Fee, \$3.
203. **ECONOMIC GEOLOGY** (3) Potter
 The study of the metallic and nonmetallic mineral resources of the earth's crust which are of use to mankind. 2 lec. and 2 lab. Prereq., 127. Fee, \$3.
214. **PHYSIOGRAPHY (GEOMORPHOLOGY) OF THE UNITED STATES** (3) Dow
 The geologic structure, surface features, boundaries, general physical characteristics, and directly related adjustments of the physiographic regions of the United States. Field trips. Prereq., 6 hrs. including one of the following: 2, 125, 126, or 133; or 3 hrs. and 6 hrs. physical science.
240. **PALEONTOLOGY** (4) Potter
 A study of fossils with emphasis on the invertebrates, their morphology, classification, and geologic and geographic distribution. 2 lec., 4 lab., and field trips. Prereq., 126 or Zool. 226. Fee, \$4.
281. **RESEARCH IN GEOLOGY** (1-4) Potter
 Prereq., 12 hours.

GERMAN

Professor Hess

Assistant Professors Krauss, Mueller

1-2. BEGINNING GERMAN

(4) The staff

The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose.

100. INTERMEDIATE GERMAN (Summer session only)

(3) The staff

Grammar review and systematic training in pronunciation, reading, and translation. Some scientific German will be read on request. The course fits the needs of those desiring either semester of second year German, and it may be taken either before or after Ger. 101 without duplication. Prereq., 2 or 2 yrs. high school German.

101-102. INTERMEDIATE GERMAN

(4) The staff

The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially *Wilhelm Tell*, is included in Ger. 102. Prereq., 2 or 2 yrs. high school German.

105, 106. SCIENTIFIC GERMAN

(2) Mueller

A reading course designed to give the student familiarity with German scientific terms. Prereq., 102, or 101 with a grade of A or B.

109-110. GERMAN GRAMMAR AND COMPOSITION

(2) Hess

A thorough review of German grammar with drill in formal and free composition; also considerable practice in German conversation. Required of all German majors and those students planning to teach German. Prereq., 102 or 3 yrs. high school German.

112. GERMAN CONVERSATION

(2) Mueller

This course is conducted in German to develop the student's ability to speak the language. A textbook and German periodicals are used for subject matter. An accompanying course in German literature is recommended. Prereq., 109, or 102 with a grade of A.

121. MODERN GERMAN PROSE

(2) Hess

To develop an easy ability in reading German. Selected prose readings from contemporary authors dealing with German institutions, customs, and legends. For all students interested in modern languages or the social sciences. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German.

165g. TEACHING OF GERMAN

(2) Hess

(Same as Ed. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission.

201, 202. SURVEY OF GERMAN LITERATURE

(3) Hess

Prereq., 102.

211, 212. MODERN GERMAN DRAMA (1942-1943)

(3) Hess

A study of the German drama of the nineteenth century and the

reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German.

213. CLASSICAL GERMAN DRAMA (1943-1944) (3) Hess
Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102.
214. GOETHE'S FAUST (1943-1944) (3) Hess
A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 213.
219. THE GERMAN SHORT STORY, 1800-1850 (2) Krauss
Rapid reading of representative short stories from Romanticism to Poetic Realism with brief discussion of the literary movements. Includes Kleist, Eichendorff, Hoffmann, Chamisso, Droste von Hulshoff. Prereq., 102.
220. THE GERMAN SHORT STORY, 1850-1900 (1942-1943) (2) Krauss
Rapid reading of representative short stories of Poetic Realism with brief discussion of this literary movement. Includes Storm, Stifter, Heyse, Keller, Meyer. Prereq., 102.
221. CONTEMPORARY GERMAN SHORT STORY (2) Krauss
Rapid reading of representative stories from Naturalism to the New Realism with brief discussion of the various literary movements. The course may be taken either before or after Ger. 219, 220 since it deals chiefly with the *Novelle* of the twentieth century. Prereq., 102.
301. HISTORY OF THE GERMAN LANGUAGE (2) The staff
An introduction to the study of Germanic philology. Prereq., 10 hrs. beyond 102.
310. GOTHIC (3) The staff
A study of the phonetics, morphology, and syntax of the Gothic language, accompanied by the reading and translating of portions of *Ulfilas' Gothic Bible*. Prereq., 10 hrs. beyond 102.
395. THESIS (4-8) The staff
Prereq., permission.

GOVERNMENT

Professors Hoover, E. B. Smith
Associate Professors Jones, Morrison
Instructor F. O. Bundy

The courses in government aim to give an understanding of politics and civic duty; to prepare students for public service in national, state, and local governments, and in the foreign service; and to train teachers of government and civics.

- 1, 2. AMERICAN GOVERNMENT (3) E. B. Smith, Morrison, Bundy
The American political system, including national, state, and local governments. Govt. 1 includes the political and constitutional development, the organization, and the functioning of the national government.

Govt. 2 is concerned with the organization and the functioning of state and local governments.

101, 102. COMPARATIVE GOVERNMENT (3) E. B. Smith, Jones, Bundy

A comparison of the American and European systems of government, including organization, procedure, popular representation, and effect upon social and economic conditions.

105. CURRENT POLITICAL AND SOCIAL PROBLEMS (2-3) E. B. Smith

A consideration of current problems of a political, social, and economic nature to develop an understanding of what is happening and to establish the habit of reading regularly newspapers and periodicals.

202. CONSTITUTIONAL LAW (2) Hoover

Prereq., 6 hrs. government or history.

203, 204. MUNICIPAL GOVERNMENT AND ADMINISTRATION (2-3) Bundy

Govt. 203 includes the organization, development, and politics of city government. Govt. 204 deals with administrative functions: personnel, finance, police, housing, health, planning, utility regulation, municipal ownership, etc. Prereq., 6 hrs.

205. AMERICAN POLITICAL PARTIES (2-3) Hoover

The origin and growth of national parties, influence of economic and social conditions on party policy, and recent developments. Prereq., 6 hrs.

216. INTERNATIONAL RELATIONS (2-3) E. B. Smith

Basic factors involved in world politics, including the modern state system, nationalism, and militarism, the evolution of international relations, forces and conditions affecting international relations, and the formulation of national foreign policies. Prereq., 6 hrs. or 9 hrs. history.

217. CONTEMPORARY INTERNATIONAL POLITICS (2-3) E. B. Smith

The nonhistorical study of international relations, international problems arising from the conflict of national foreign policies, programs of national defense, efforts toward world political order, and the contemporary policies of the Great Powers. Prereq., 6 hrs. government or history.

223. INTERNATIONAL LAW (2-3) Bundy

Prereq., 6 hrs.

231, 232. EUROPEAN GOVERNMENTS (3) Jones

The government and politics of the major European countries with emphasis on the basic principles and theories. Prereq., 6 hrs. government or history.

241. AMERICAN FOREIGN POLICY (3) Morrison

The diplomatic history of the United States since the Declaration of Independence with an introduction to the Department of State and general diplomatic practices. Prereq., 6 hrs. government or history.

243. AMERICAN POLITICAL THOUGHT (2-3) E. B. Smith

Early political ideas underlying the political and social institutions in the United States, and the development of political thought to the

present in relation to these institutions and associated problems. Prereq., 6 hrs. or 9 hrs. history.

244. RECENT POLITICAL THOUGHT (2-3) E. B. Smith
Recent political theories basic to political and social institutions, such as individualism, collectivism, fascism, and democracy; their practical effect upon the life of the people. Prereq., 6 hrs. or 6 hrs. European history.
248. INTRODUCTION TO PUBLIC ADMINISTRATION (2-3) Bundy
The place of administration in modern government, problems of organization and control, determination of administrative areas, personnel management, development of bureaucracy, public budgeting, politics and administration in relation to government planning. Prereq., 6 hrs.
249. NATIONAL ADMINISTRATION (2-3) Bundy
Organization, functions, procedures, and administrative problems of national regulatory agencies, with emphasis on New Deal agencies, such as National Labor Relations Board, Federal Communications Commission, Securities and Exchange Commission, and others. Prereq., 6 hrs.
301. PROBLEMS IN GOVERNMENT (1-6) The staff
Research or directed reading based upon the student's special interest. Prereq., 15 hrs.
391. SEMINAR IN GOVERNMENT (1-6) The staff
Prereq., 15 hrs.
395. THESIS (4-8) The staff
Prereq., permission.

GREEK—See Classical Languages

HEALTH—See Physical Welfare

HISTORY

Professors Hoover, E. B. Smith, Volwiler
Associate Professors Jones, Morrison
Assistant Professor Field
Instructors Brokaw, W. J. Smith, Eckles

The major requirement in history for the A. B. degree consists of a minimum of 24 hours, including Hist. 1, 2, 110, 111, and at least two courses in or above the 200 group, selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year. Hist. 239, 240, and 255 are recommended for pre-law students.

Graduate students majoring in history are required to have Hist. 301 and 391.

1, 2. A SURVEY OF EUROPEAN CIVILIZATION

(3) Volwiler, Jones, W. J. Smith, Eckles

The development of European civilization from the decline of the Roman Empire to the present time with a consideration of its economic, social, intellectual, cultural, and political phases.

101. ENGLISH HISTORY TO 1485 (3) Eckles
102. ENGLISH HISTORY SINCE 1485 (3) Eckles
110. HISTORY OF UNITED STATES TO 1865 (3) Hoover, Morrison, Field
111. HISTORY OF UNITED STATES SINCE 1865 (3) Hoover, Morrison, Field
112. HISTORY OF GREECE (2) Brokaw
113. HISTORY OF ROME (2) Brokaw
115. THE OLD SOUTH (3) Morrison
A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations.
116. THE NEW SOUTH (3) Morrison
Social, economic, and political life in the South since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, the South today.
132. HISTORY OF OHIO (2) Hoover
141. LATIN AMERICAN HISTORY (3) W. J. Smith
Exploration, colonization, conquest, native civilizations, and the development of cultural institutions during the colonial period.
142. LATIN AMERICAN HISTORY (3) W. J. Smith
The national period with emphasis upon present-day conditions and the relations with the United States.
- 169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR HIGH SCHOOLS (2) E. B. Smith
(Same as Ed. 169h) The development of history and civics as school subjects: objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects.
203. ENGLISH HISTORY, TUDOR PERIOD (16th Century) (2) Jones
The growth of Parliament, foreign policy, establishment of the Church of England, maritime expansion, and the Golden Age in literature will be studied. Prereq., 6 hrs.
204. ENGLISH HISTORY, STUART PERIOD (17th Century) (2) Jones
The political, social, economic, and constitutional history of England during this transition period will be studied. Prereq., 6 hrs.
205. ENGLISH HISTORY, 1689-1815 (2) Eckles
This course is designed to continue the comprehensive study of modern England from the end of the Stuart period. Prereq., 6 hrs.
206. ENGLISH HISTORY SINCE 1815 (2) Eckles
This course is designed to cover the history of modern England from 1815 to the present time. Prereq., 6 hrs.

211. FRENCH REVOLUTION AND NAPOLEONIC ERA, 1789-1815 (3) Jones
A study of the causes, events, results, and leaders of this Revolution will be made. Prereq., 6 hrs.
212. EUROPE IN THE NINETEENTH CENTURY (3) Jones
A study of the development of England, France, Germany, Italy, and Russia, and their international relations. Prereq., 6 hrs.
220. EUROPE IN THE TWENTIETH CENTURY (3) Jones
A continuation of Hist. 212 with emphasis on the principal movements of the period. Prereq., 6 hrs.
225. LEADERS IN LATIN AMERICAN HISTORY (2) W. J. Smith
Prereq., 6 hrs., including 142 or permission.
226. THE PACIFIC AREA (2) W. J. Smith
A study of islands of the Pacific, colonization and conquest. Special attention will be given to present-day problems of Australia, New Zealand, the Dutch East Indies, the Philippines, Guam, and the Japanese mandated islands. Prereq., 6 hrs.
235. HISTORY OF CANADA (2) Hoover
Prereq., 6 hrs.
236. REVOLUTIONARY ERA (3) Hoover
An intensive study of the causes of the Revolution, the Declaration of Independence, the struggle for independence, and the history under the Articles of Confederation. Prereq., 6 hrs. including 110, or permission.
237. FORMATION OF THE UNION, 1789-1829 (3) Hoover
A study of the organization of the government under the new constitution, development of political party system, great court decisions. Prereq., 6 hrs. including 110, or permission.
239. ENGLISH CONSTITUTIONAL HISTORY TO 1485 (3) Eckles
The origin and early development of English legal institutions, parliamentary monarchy, and the foundations of English law. This course is especially designed to meet the needs of history majors and pre-law students. Prereq., 6 hrs.
240. ENGLISH CONSTITUTIONAL HISTORY SINCE 1485 (3) Eckles
A study of the political and legal evolution of the modern English state, with special emphasis upon constitutional forms and precedents, basic concepts of law, and the interpretation of the parliamentary system. Prereq., 6 hrs. including 239, or permission.
241. THE BRITISH EMPIRE (3) Eckles
The evolution of the British Empire to the beginning of the twentieth century, with special emphasis on the development of colonial policy, imperialism, the growth of crown colonies, colonial reform, and the growth of nationalism in the self-governing colonies and India. Prereq., 6 hrs.

242. THE BRITISH EMPIRE (3) Eckles
 Later developments in the British Empire, including a survey of the organization and structure of the Third Empire, the achievement of Dominion status, and the evolution of the British Commonwealth of Nations. Prereq., 6 hrs.
243. MEDIEVAL HISTORY (2) Eckles
 A study is made of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from 476 to 1212. Prereq., 6 hrs.
244. RENAISSANCE, 1215-1500 (2) Eckles
 The dawn of the Renaissance and the beginnings of modern times are emphasized. Special attention is given to social, economic, and institutional development. Prereq., 6 hrs.
245. IMPERIALISM AND WORLD POLITICS (3) Volwiler
 Types of imperialism; empire building during the nineteenth and twentieth centuries by Russia, Japan, United States, Great Britain, France, Germany, and Italy. Prereq., 6 hrs.
246. THE REFORMATION, 1500-1648 (2) Eckles
 A study is made of the rise of nationalism and of religious change in Western Europe. Emphasis is laid on the contributions to contemporary society made by Protestantism and nationalism. Prereq., 6 hrs.
250. COLONIAL AMERICA, 1689-1763 (2) Morrison
 The colonies, their local situation, and their position in the British Government. Prereq., 6 hrs., including 110 or permission.
251. SECTIONAL CONTROVERSY, 1829-1850 (2) Morrison
 Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, growth of nationality. Prereq., 6 hrs.
253. THE UNITED STATES, 1850-1877 (3) Morrison
 The sections of the United States in 1850, forces leading to war, the great conflict; Reconstruction, its background and development; restoration of home rule in the South. Prereq., 6 hrs., including 110 or permission.
254. UNITED STATES SINCE 1900 (3) Morrison
 Social conditions, agriculture, business, transportation, communication, labor, imperialism and foreign trade, trends toward state capitalism and regulation, new governmental agencies, political changes, reforms, the new outlook. Prereq., 6 hrs., including 111 or permission.
255. CONSTITUTIONAL HISTORY (2) Hoover
 The Constitution of the United States: its origin, formation, and ratification. Prereq., 6 hrs.

256. **THE EMERGENCE OF MODERN UNITED STATES, 1877-1900** (3) Volwiler
 Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs., including 111 or permission.
257. **THE WESTWARD MOVEMENT** (3) Volwiler
 The expansion from the Atlantic Coast to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs.
258. **STATESMEN OF THE UNITED STATES** (2) Hoover
 A study of the life and times of leading Americans through the Civil War period. Prereq., 6 hrs., including 110 or permission.
259. **STATESMEN OF THE UNITED STATES** (2) Hoover
 A continuation of Hist. 258, covering the period since the Civil War. Prereq., 6 hrs., including 111 or permission.
270. **THE FAR EAST** (3) W. J. Smith
 A study of the history of China and Japan and their relations with other countries. Prereq., 6 hrs.
298. **PROBLEMS IN HISTORY** (1-6) The staff
 Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs. and permission.
299. **REPRESENTATIVE HISTORIANS AND THEIR WRITINGS** (3) Volwiler
 Lectures and discussions of typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs.
301. **HISTORIOGRAPHY AND METHODOLOGY** (2-3) Volwiler
 An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs.
391. **SEMINAR IN HISTORY** (1-6) The staff
 Reports based upon original research with group discussion and criticism. Prereq., 15 hrs. and permission.
395. **THESIS** (4-8) The staff
 Prereq., permission.

HOME ECONOMICS

Professors Justin, Steinger
 Assistant Professors Patterson, Morse, Wagner
 Instructors Snyder (on leave of absence), Harger, Lagerstrom
 Visiting Lecturer Oliver

CLOTHING AND TEXTILES

1. CLOTHING SELECTION AND CONSTRUCTION (3) Morse

A study of essential factors entering into a wise choice of clothing for the family. Principles of construction practiced in the making of simple garments of cotton and of wool. 1 lec. and 4 lab. Fee, \$3.

4. CLOTHING APPRECIATION (3) Morse

Clothing problems of the college girl, psychology of clothing, good taste in dress. How to plan, purchase, and care for a satisfactory but economical wardrobe. Construction of clothing for the individual. 1 lec. and 4 lab. Fee, \$3.

110. TEXTILES (3) Morse

A basic course in textile fabrics involving the study of fibers, fabric construction, use, and care. 2 lec. and 2 lab. Fee, \$3.

211. ECONOMICS OF CLOTHING (3) Wagner

General survey of the textile and clothing industry, the significance of fashion, and clothing problems in relation to sociological and economic conditions. 2 lec. and 2 lab. Prereq., 1 or 4, and 110.

212. CREATIVE TEXTILE PROBLEMS (2-4) Morse

Opportunity is given for the development of original ideas in textiles, garment designs, and interior decorations. Prereq., 110 and 3 hrs. art.

215. HISTORY OF COSTUME AND TEXTILES (2) Wagner

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 1 or 4, and 110.

216. CLOTHING DESIGN AND CONSTRUCTION (3) Morse

Two dresses are designed, draped, and constructed. One tailoring problem is given. 6 lab. Prereq., 1 or 4, and 110. Fee, \$3.

218. ADVANCED TEXTILES (3) Morse

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 110 and 3 hrs. chemistry.

395. THESIS (4-8) Morse

Prereq., permission.

FAMILY RELATIONSHIPS AND CHILD DEVELOPMENT

271, 272. CHILD DEVELOPMENT (2) Justin, Oliver

A study of the child with reference to the problems of parents. H. Ec. 271 deals with the physiological development and the physical care

and health habits of the child. H. Ec. 272 deals with the child's mental health, social and emotional development, and with parental techniques for the guidance of young children. 1 lec. and 2 hrs. nursery school observation. Prereq., 21, 1 or 110, or 6 hrs. psychology.

273. FAMILY RELATIONSHIPS (3) Justin

A study of the functioning of the successful family and the factors that affect its establishment and maintenance. Prereq., 272, 3 hrs. sociology, and 3 hrs. psychology.

377. SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS (2-6) Justin

An intensive study of a problem in family relationships. Prereq., 273.

379. SPECIAL PROBLEMS IN CHILD DEVELOPMENT (2-6) Justin, Oliver

An intensive study of a phase of child development or a problem in child guidance. The nursery school may be used as a laboratory if desired. Prereq., 272.

395. THESIS (4-8) Justin, Oliver

Prereq., permission.

FOODS AND NUTRITION

21. FOODS AND NUTRITION (3) Lagerstrom

Scientific principles involved in the selection, preparation, and preservation of food. Practice in preparing standard food products and in planning and serving meals. 1 lec. and 4 lab. Fee, \$3.

122. ECONOMICS OF FOODS (3) Lagerstrom

Nutritional and economic principles involved in the selection and preparation of food at various income levels. Application of these principles to meal service. 1 lec. and 4 lab. Prereq., 21. Fee, \$3.

222. EXPERIMENTAL COOKERY (3) Lagerstrom

Review of the literature dealing with research in the field of cookery. Individual and group experiments on selected problems. 1 lec. and 4 lab. Prereq., 21 and 3 hrs. organic chemistry. Fee, \$3.

225. DIETETICS (3) Steiningger

Fundamental principles of nutrition based upon the nutritive value of foods and nutritive requirements of man. Practical application of these principles to the feeding of individuals and families under varying physiological, economic, and social conditions. 2 lec. and 2 lab. Prereq., 21 and 3 hrs. chemistry. Fee, \$3.

227. QUANTITY COOKERY (3) Harger, Davis

The planning, preparing, and serving of foods in large quantities for residence halls, school lunch rooms, cafeterias, and for school banquets or special parties. 1 lec. and 4 lab. Prereq., 21 and 105.

228. RECENT DEVELOPMENTS IN FOOD AND NUTRITION (3) Steiningger

Reports, discussions, and reviews of scientific literature. Prereq., 225.

229. NUTRITION IN DISEASE (2) Steinger
The use of diet in the prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec. and 2 lab. Prereq., 225. Fee, \$2.
241. NUTRITION WORK WITH CHILDREN (2) Steinger
Relation of nutrition to growth and development of children. Methods for improving the nutrition of children through the school and other organizations. Prereq., 225.
242. INSTITUTIONAL BUYING (3) Harger
Study of market organization, methods of purchasing food in large quantities, and equipment for house and food departments for institutions. Prereq., 227.
248. INSTITUTIONAL MANAGEMENT (3) Harger
Organization and management problems in food service units of institutions. Study of floor plans of these units with relation to the needs of the various services. Personnel problems, labor laws, records, budgeting, food control, and housekeeping. 2 lec. and 2 lab. Prereq., 227.
249. INSTITUTIONAL MANAGEMENT PRACTICE (3) Harger
Application of principles of management and administration to actual experience in the residence halls. 6 lab. Prereq., 248 and senior rank.
333. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION (3) Steinger
An intensive study of a phase of food chemistry or nutrition. Prereq., 225 and Chem. 113.
395. THESIS (4-8) The staff
Prereq., permission.

GENERAL HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS (2) Justin, assisted by specialists in each field
History of home economics. The value of home economics in education for personal, home and family living, homemaking, and vocational training. The place of home economics in the present organization of the school curriculum.
- 55, 56. HOUSEHOLD ARTS FOR THE ELEMENTARY SCHOOL (2) Lagerstrom
The personal problems which confront every individual in intelligent living. Choice of clothing, modification of surroundings, selection and buying of food, examination of habits of life. Practical application of all principles which emerge from this study to the work of the teacher in the elementary school. 1 lec. and 2 lab. Fee, \$2.
- 168h. TEACHING OF HOME ECONOMICS (3) Patterson
(Same as Ed. 168h) Homemaking curricula, organization, and procedure in secondary schools. Consideration of objectives and needs for

various groups. Methods of instruction applicable to this field. Participation in home projects, field trips, and observations of various kinds including adult groups in homemaking classes. Prereq., 12 hrs.

200. PROBLEMS IN HOME ECONOMICS (1-8) The staff

Students are required to plan and complete a problem in one of the specialized fields of home economics. Prereq., 6 hrs. and junior rank.

250h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(3) Patterson

(Same as Ed. 250h) Opportunity for individual selection of problems. Prereq., 18 hrs. and 168h.

251. HOME MANAGEMENT

(2) Justin

A study of the economic use of time, energy, and money in the successful functioning of homes at various income levels. Prereq., for undergraduate credit, 21 and 105, or 6 hrs. sociology; for graduate credit, 21 and 105.

253. HOME MANAGEMENT LABORATORY

(2) Harger

Residence in the home management house for one-half semester provides managerial experience in the use of time, energy, and money in the modern household. Prereq., 21, 105, and permission.

254. HOME ECONOMICS IN ADULT EDUCATION

(3) Justin

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for home and family life. Prereq., 251 and 253, 271 or 272, and 10 hrs. education or psychology.

255. PROMOTION AND DEMONSTRATION TECHNIQUES

(2) Steininger, Wagner

Personal qualifications desired by business, development of the employee in her profession, relationship of employee to employer. Practical experience in demonstrating home furnishings, equipment, clothing, or food. 1 lec. and 2 lab. Prereq., 12 hrs. Fee, \$2.

256. ECONOMICS OF CONSUMPTION

(3) Wagner

Principles of consumption, consumer behavior, the market and its devices, standards of living and basic needs, the effect of consumer demand on the economic system, social problems of consumption, relation of government to consumer interest, consumer agencies. Prereq., 21, 1 or 110, or 6 hrs. economics and marketing.

257. CONSUMERS' COOPERATION

(3) Wagner

Development of consumers' cooperation in foreign countries and in the United States, cooperative education, and the effect on family economy. Prereq., 6 hrs., or 6 hrs. economics and marketing.

258. SPECIAL PROBLEMS IN HOUSEHOLD ECONOMICS

(3)

Individual investigation in standards of living, family expenditures, structure of the retail market, and methods for increasing efficiency in purchasing. Prereq., 256.

351. SPECIAL PROBLEMS IN HOME ECONOMICS (2-8) The staff
Students select, plan, execute, and test the results of individual problems of research. Prereq., 18 hrs.
352. SPECIAL PROBLEMS IN HOME MANAGEMENT (2-3) Justin
An intensive study of the efficient management of time, energy, or money in the home. Prereq., 251 and 253.
395. THESIS (4-8) The staff
Prereq., permission.

THE HOUSE AND ITS EQUIPMENT

105. HOUSEHOLD EQUIPMENT (3) Wagner
The selection of household equipment as affected by economic and social factors. The operation, care, and storage of equipment in the home. 2 lec. and 2 lab.
131. HOME PLANNING (3) Wagner
The house and its furnishings considered in relation to artistic, economic, and social factors affecting choice. 2 lec. and 2 lab. Prereq., 1 or 110, and 3 hrs. art. Fee, \$3.
234. HOUSEHOLD ENGINEERING
(3) Wagner and specialists in related sciences and manufacturing fields
Survey of agencies offering services to homemakers in the selection, operation, and maintenance of household equipment. Prereq., 21, 105, and 131.
238. HOUSING AND COMMUNITY WELFARE (3) Morse
History of the housing movement. Family and community living conditions as affected by housing regulation and legislation. City planning and zoning. Trends in American and foreign housing. Prereq., 131, 251, and 253.
395. THESIS (4-8) The staff
Prereq., permission.

INDUSTRIAL ARTS Associate Professor Kinison (on leave of absence)
Instructors Paige, Stephan
Visiting Lecturer Clausen

The requirements for a major in industrial arts include the following: C.E. 2, E.E. 103, Ind. A. 2, 7, 8, 109, 116, 121, 124, 131, 141-142, 212, and 226. Additional courses are determined by the requirements for the A.B., B.S., or B.S.Ed. degree.

- 1-2. ELEMENTARY WOODWORKING (3) Paige
Emphasis is placed on the construction of a small piece of furniture by the use of hand tools in Ind. A. 1, and by the use of power machinery in Ind. A. 2. Information concerning the several kinds of wood, joints, glues, and furniture finishes make up some of the topics for discussion. 1 lec. and 4 lab. Fee, \$3.

6. **WOOD TURNING** (2) Paige
 Instruction is given in the use and care of wood turning lathes and lathe tools. 4 lab. Fee, \$2.
7. **SHEET METAL** (3) Stephan
 The laboratory work consists of cutting, forming, seaming, soldering, riveting, and decorating sheet metals. The lecture discussions deal with mining and with the methods of manufacturing of sheet metals, solders, fluxes, and rivets. 1 lec. and 4 lab. Fee, \$3.
8. **GENERAL SHOP** (3) Stephan
 Experience and information in drawing, electricity, woodworking, and craftwork. The laboratory is organized and conducted as a typical junior high school shop. 1 lec. and 4 lab. Fee, \$3.
9. **CRAFT AND HOBBY WORK** (2) Paige
 Work in wood, iron, brass, copper, leather, reed, plastics, fibers, and other materials is offered. 4 lab. Fee, \$2.
105. **MATERIALS AND FINISHES** (3) Paige
 A study is made of the different materials and finishes that are generally used in the industrial arts laboratories; their sources, manufacture, and application.
- 109-110. **CABINET MAKING** (3) Paige
 Furniture is designed, constructed, and finished by approved methods. 1 lec. and 6 lab. Prereq., 2. Fee, \$3.
116. **CONSTRUCTIVE DESIGN** (2) Paige
 Practice in free-hand sketching is given. Originality in the designing of suitable school shop problems is stressed. A study is made of the outstanding periods and master designers of furniture. Prereq., C.E. 2.
117. **SHOP AND MACHINE MAINTENANCE** (2-4) Paige, Stephan
 Includes the sharpening, adjusting, and repair of the saws, drills and drill presses, jointers, shapers, sanders, milling machines, lathes, and other machines which are used in the woodworking and metal working laboratories. 4-8 lab. Prereq., 7, 109, 124, or permission.
121. **PATTERN MAKING, FORGE, AND FOUNDRY** (2) Paige, Stephan
 A study of processes, methods, equipment, and organization of these shops as found in industry. Three or more problems are required in each shop. 1 lec. and 3 lab. Fee, \$2.
122. **ELEMENTARY INDUSTRIAL ARTS** (1) Kinison, Stephan
 This course is designed to give essential and simple tool operations and skills that are desirable for teachers of the elementary grades. Common woodworking and metal working hand tools are used. 1 lec. and 1 lab. Prereq., elementary teaching majors only. Fee, \$1.
124. **MACHINE SHOP** (2) Stephan
 The shaping of metal by the use of the drill press, the engine lathe, the shaper, the milling machine, and the grinders, including the care and upkeep of these machines. 4 lab. Fee, \$2.

125. **ADVANCED METAL WORKING** (2) Stephan
Includes advanced work with the machines used in courses 7 and 124; also, work in electric arc welding and acetylene welding. 6 lab. Fee, \$2.
126. **SHOP ENGINEERING** (2) Stephan
A study of the equipment, materials, and the organization of industry to acquaint the student with the methods of industrial manufacturing. Includes inspection trips and the outline of the manufacture of an article on a production basis. 1 lec. and 3 lab. Fee, \$2.
127. **SHOP PRACTICE** (2-3) Kinison
Practice in giving demonstrations, in handling supplies and materials, and in designing projects for use in the shop courses. Prereq., permission.
131. **CLAY AND CONCRETE WORK** (2) Paige
Includes work with clay in forming simple pottery, tile, and brick. Deals with cement and concrete work, the several kinds of mixes, and the proper proportions of cement, aggregate, and water for the various kinds of construction. Satisfies the state requirement for some work in ceramics. 1 lec. and 4 lab. Prereq., 2 or permission. Fee, \$2.
- 141-142. **PRINTING** (3) Clausen
Ind. A. 141 consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen press work. Ind. A. 142 deals with papers and paper making, care of stock, designing and setting display work, and the making of linoleum-block cuts. The making of stereotype mats and castings is also included. 1 lec. and 4 lab. Fee, \$3.
145. **PRINTING AND PRINTING PROCESSES** (1) Clausen
This course is designed for the students of the department of journalism. It includes practice in composition, proof reading, correcting proofs, imposition, feeding presses, distribution, and the making of stereotype mats and castings. 2 lab. Fee, \$1.
147. **ADVANCED PRINTING** (3) Clausen
Deals with the problems that are encountered in a commercial printing shop. Laboratory periods are spent in work on the platen press, the cylinder press, the off-set press, the mimeograph, and the silk screen bench. 6 lab. Prereq., 142. Fee, \$3.
- 160m. **TEACHING OF INDUSTRIAL ARTS** (3) Kinison
(Same as Ed. 160m) This course deals with the methods of presenting technical and related information in school shop laboratories, and with the procedure to follow in giving demonstrations with tools and tool processes. Special attention is given to the methods of testing and grading of manipulative work. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. and permission.

205. ADMINISTRATION OF DRIVER EDUCATION (Summer session only)

(3) Stephan

Organization, administration, and instruction in driver education and training for instructing high school students; includes accident analysis and methods of prevention, traffic rules and courtesies, important automobile mechanisms, observation and practice in automobile operation, and experience in instructing one student in driving. Special problems are required of graduate students. 2 lec. and 4 lab. Prereq., 3 hrs. education, Psych. 5, and permission. Fee, \$5.

212. SCHOOL SHOP EQUIPMENT AND ORGANIZATION

(3) Stephan

A study of the selection of tools and equipment for the several school shop laboratories, the arrangement of the machines and tools in the laboratory, and the selection and handling of supplies. Prereq., 1, 7, 141, and senior rank.

226. HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS

(3) Paige

A study of the history of the industrial arts movement from its earliest beginnings down to the present. Special consideration is given to the terms of the Smith-Hughes Law and the George Deen Act and their administration in the state of Ohio. Prereq., 160m and 3 hrs. school administration.

228. SPECIAL PROBLEMS IN INDUSTRIAL ARTS

(3) Kinison

This is a research course. Students are encouraged to select a problem for investigation which will involve experimentation as well as the use of the library. Emphasis is placed on the solution of the problem rather than the report of the research. Prereq., senior rank.

350. ADVANCED WOOD, METAL, OR PRINTING

(3) The staff

Advanced laboratory work in wood, metal, or printing, and a study of the industrial practices in the field selected. A term paper is required. Prereq., 8 hrs. in one field. Fee, \$3.

357. CURRICULUM BUILDING IN INDUSTRIAL ARTS

(3) Kinison

A study of building a complete industrial arts curriculum and of constructing the several courses that make up the curriculum. Each student constructs a course for one of the several industrial arts subjects. Prereq., 16 hrs.

381. RESEARCH IN INDUSTRIAL ARTS

(3-6) Kinison

A study of the techniques of research and of the reporting of the results of research. Prereq., 15 hrs.

391. SEMINAR IN INDUSTRIAL ARTS EDUCATION

(1-6) The staff

Reports on recent books and magazine articles, and reports based upon original research will be given and followed by group discussion and criticism. Prereq., 15 hrs.

395. THESIS

(4-8) The staff

Prereq., permission.

ITALIAN—See Romance Languages

JOURNALISM

Professor Lasher

Instructors Harris, Smiley, Kelly, Buchan, Nichols, R. H. Ray

4-5. NEWSPAPER READING

(1) Lasher

Students study the various types of newspapers, the organization of the newspaper from the reader's point of view, and the relationship of the newspaper to social, economic, religious, and educational problems. Propaganda and editorial bias are considered. Leading newspapers of the country are analyzed.

103. NEWS WRITING

(2) Lasher

The course deals with the simple news story, stressing the lead. Particular attention is paid to diction and usage and to the fundamentals of sentence structure as agencies for the improvement of style in writing. Prereq., Eng. 2 or 4.

105. THE NEWSPAPER

(2) Lasher

A study of the character, the purposes, and the general organization of the newspaper, including its business and mechanical aspects, with attention to its origin, development, and present status as a quasi-public institution. Prereq., Eng. 2 or 4.

107. NEWSPAPER REPORTING

(3) Kelly, Buchan, Ray

Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news. Practical work covering assignments and preparing copy. Prereq., 103.

110. WRITING FOR PUBLICATION

(2) Kelly

Designed for teachers, school administrators, social workers, and others who wish to know the elementary technique of writing news and feature stories in order to publicize their particular interests. Legitimate methods of getting material into publications are discussed. Not open to journalism majors and minors. Prereq., Eng. 2 or 4.

111. REPORTING PRACTICE

(2-6) Smiley

Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

116. SPORTS WRITING AND EDITING

(2) Kelly

The course deals with the technique of gathering, writing, and editing news and comments concerning all sports, amateur as well as professional. Considerable attention is paid to golf, tennis, hockey, and to the promotion of community sports. Prereq., junior or senior rank.

117. NEWSPAPER EDITING

(3) Buchan, Ray

Principles and practices of newspaper copyreading, headline writing, illustration, and make-up for dailies, community newspapers, and tabloids, including regular, special, and Sunday editions. Other phases: style; selecting art and editing picture pages; wire and syndicate news and features; type and mechanical processes. Prereq., 107.

121. EDITING PRACTICE (2-6) Harris

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy; and working out make-up problems. Prereq., 117 and permission.

130. BOOK REVIEWING (2) Lasher

Following a study of book sections in outstanding newspapers and magazines and the methods of experienced book reviewers, students write reviews of current books of various types. Prereq., Eng. 4.

134. THE WRITING OF CRITICISM (2) Lasher

The fundamental principles of art and criticism are studied and applied to concrete situations in reviewing musical, art, theatrical, photographic, and radio events. Prereq., Eng. 4 and junior or senior rank.

140. THE COMMUNITY NEWSPAPER (3) Lasher

The course stresses phases of the editorial and business management of daily or weekly newspapers published in small communities. Problems include: news treatment and editorial comment; the relation of the newspaper to school, church, business, and community life; circulation promotion; securing and preparation of advertising and job printing; mechanical equipment. Prereq., Eng. 4.

146. NEWSPAPER MAKE-UP (1) Ray

Make-up of various types of standard and tabloid newspaper pages at the stone following preparation of lay-out sheets. Use of panels, boxed inserts, engravings, advertisements, and various typographical devices in newspaper make-up. Study of typographical and make-up trends in city and community newspapers. This course should be combined with Ind. A. 145. Fee, \$1.

147. NEWSPAPER AND ADVERTISING TYPOGRAPHY (1) Ray

A study of the characteristics of those type families used for headlines, newspaper text, and advertising will be followed with a treatment of symbolism of type faces and their specific uses. There will be practice in setting various types of headlines and cut lines and in the composition of advertising layouts. This course should be combined with Jour. 146. Prereq., Ind. A. 145. Fee, \$1.

151-152. CONTEMPORARY THOUGHT AND DEVELOPMENTS

(3) Lasher and others

Important contributions being made in the fields of art, science, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology are discussed by members of the faculty from various departments and by laymen. Material is presented as a background for newspaper writers and readers. Prereq., junior or senior rank.

155. HIGH SCHOOL PUBLICATIONS (Summer session only) (2) Lasher

Editorial supervision and business management problems of high school newspapers, yearbooks, magazines, and handbooks.

164j. TEACHING OF HIGH SCHOOL JOURNALISM (2) Lasher

(Same as Ed. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing. Attention to preparation of school publicity copy for newspapers.

172. THE NEWSPAPER AS A BUSINESS INSTITUTION (2) Ray

The course deals with the organization of the newspaper, emphasizing the various functions and the cooperative responsibilities of the business, editorial, and mechanical departments. Designed for students who are not specializing in business phases of the newspaper.

173. NEWSPAPER CIRCULATION PRACTICE (2-3) Ray

Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prereq., 172 or 243.

175. NEWSPAPER OFFICE AND PLANT MANAGEMENT PRACTICE (2) Ray

A laboratory study of the administration of the accounting and mechanical departments of the newspaper. The publisher of *The Athens Messenger* and the instructor in the business courses in the School of Journalism supervise. Prereq., 173, 177, and Acct. 76 or 81.

177. NEWSPAPER ADVERTISING PRACTICE (2-6) Nichols

Laboratory work in preparing copy for local display advertisers in *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.

180. NEWS BROADCASTING (2) Buchan

Technique in gathering, writing, and editing local and wire news for radio. Live wire copy from *The Athens Messenger* is used in writing 15-minute broadcasts. News dramatizations are made of significant and human interest stories which have already appeared in newspapers. Newspaper promotional activities. Prereq., 117 and senior rank.

181. WRITING FOR RADIO (2-3) Buchan

Original and adaptive writing of short shorts, short story, skits, plays, and other forms of fiction suitable for radio dramatization. Sound and production problems for scripts are worked out in cooperation with students in Dram. A. 125. Prereq., 6 hrs., or 12 hrs. English, and junior or senior rank.

183. FICTION WRITING FOR NEWSPAPERS AND MAGAZINES (3) Buchan

Study of the craftsmanship of short fiction appearing in daily and Sunday newspapers and in magazines. Graded practice lessons in fiction technique. Editorial taboos and requirements of syndicates, newspapers, and magazines, and a study of specific markets. Prereq., 6 hrs., or 12 hrs. English, and junior or senior rank.

201. **ADVANCED REPORTING** (2) Smiley, Ray
Experience at *The Athens Messenger* in some specialized field in which the student is doing research. Prereq., 6 hrs. in 111 and permission.
206. **NEWSPAPER LAW** (2) Buchan
Case studies of the law of libel with special emphasis on constitutional and statutory law pertaining to freedom of the press and defamatory writing. A study and discussion of the constitutional, statutory, and common law rights of the newspaper and the reporter. New state and national legislation that affects newspapers. Prereq., 117 or 243, and senior rank.
207. **REPORTING OF PUBLIC AFFAIRS** (2) Lasher
The course deals with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community. Students are brought into contact with local officials and organizations. Prereq., 112 or permission, and senior rank.
208. **JOURNALISM ETHICS** (2) Lasher
The case method applied to such problems as news suppression, publicity, questionable advertising and business methods, propaganda, and constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Prereq., 117, or 243, or 247, and senior rank.
222. **FEATURE AND MAGAZINE WRITING** (3) Lasher
A study of newspaper, magazine, and syndicate feature stories and articles is followed by practice in writing different types. Problems considered include: discovering desirable material, securing suitable illustrations, bringing out the dominant interest, preparing and selling manuscripts. Prereq., 107 or 12 hrs. English.
223. **ADVANCED FEATURE AND MAGAZINE WRITING** (2) Lasher
Students are permitted to select their type of material. Writing is done with the definite idea of publication. A study is made of the most suitable markets for publication. A conference course. Prereq., 222.
225. **THE EDITORIAL PAGE** (3) Lasher
A study of the editorial page as to purpose, material, style, tone, and effect. Training is given in the analysis of news and in the writing of news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prereq., 111 or 12 hrs. English, and senior rank or permission.
243. **NEWSPAPER MANAGEMENT** (3) Ray
Problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies in relation to management. Prereq., 105, and Acct. 76 or 81.

247. NEWSPAPER ADVERTISING AND LAYOUT (3) Buchan
 Departmental organization, solicitation technique, promotion, layout, copywriting, and typography pertaining to the retail, classified, national, and legal advertising departments of the newspaper. Agency organization and operation. Prereq., Advt. 155.

248. ADVERTISING PRODUCTION (2) Buchan
 Study of mechanical, graphic, and creative methods of advertising production in relation to problem objective and cost; comparative analysis of lithography, letter-press, gravure, and other types of printing and poster work; relation of color, art work, type, media, and quality of paper to advertising purpose. Prereq., 247 or Advt. 232.

LATIN—See Classical Languages

LIBRARY—See Education (143, 144)

MANAGEMENT—See Commerce

MARKETING—See Commerce

MATHEMATICS AND ASTRONOMY Professors Reed, Marquis,
 Starcher
 Assistant Professor Denbow
 Instructors Osgood, Miller

The major requirement in mathematics for the A. B. and the B. S. degrees consists of Math. 5, 6, 117, 118, and two other courses at least one of which shall bear a course number above 200.

1. ELEMENTARY ALGEBRA (4) Denbow
 A beginning course for students with no high school algebra.

3. PLANE GEOMETRY (4) The staff
 A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra.

4. SOLID GEOMETRY (1942-1943) (3) Denbow
 Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

5. FRESHMAN MATHEMATICS (5) The staff
 A review of high school algebra, the number system, the rational operations, equations, exponents, radicals, logarithms, the trigonometric functions, right triangles, graphs, functions of multiple angles. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

6. FRESHMAN MATHEMATICS (5) The staff
 Solution of triangles, the straight line, the circle, the conic sections, polar coordinates, and a brief treatment of solid analytic geometry. Prereq., 5.

14. DESCRIPTIVE ASTRONOMY (3) Reed
The earth as an astronomical body, the motions and physical characteristics of the sun and other bodies of the solar system, and the distances, constitution, and distribution of stars and nebulae. The simple principles of physics and mathematics needed to understand the subject are developed. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
34. MATHEMATICS OF FINANCE (3) Marquis
A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
101. PLANE TRIGONOMETRY (Extension Division only) (2) Reed
The definitions of the trigonometric functions and the relations among them; the addition theorems, functions of the double and half angles; computations with logarithms and the solutions of oblique triangles. Prereq., a course in college algebra or equivalent.
105. COLLEGE GEOMETRY (3) Marquis
Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq. 6.
117. DIFFERENTIAL CALCULUS (4) The staff
Variables, functions, limits, differentiation and its application to maxima and minima, differentials, curvature, and the theorem of mean value. Prereq., 6.
118. INTEGRAL CALCULUS (4) The staff
Integration, the definite integral, geometrical and physical applications of integration, series, expansion of functions, partial differentiation, multiple integrals. Prereq., 117.
125. ELEMENTARY STATISTICS (3) Starcher
The common theory and methods used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of units, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, regression, and probability. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
- 168m. TEACHING OF MATHEMATICS IN HIGH SCHOOL (3) Denbow
(Same as Ed. 168m) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to high school students. Prereq., 6 and Psych. 5.
201. THEORY OF EQUATIONS (3) Reed
The roots of unity, theorems on the roots of an equation, construction of roots with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, and symmetric functions. Prereq., 6.

204. ADVANCED CALCULUS (3) Reed

Particular subjects in the differential and integral calculus: expansion into series, Taylor's series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prereq., 118.

205. FOUNDATIONS OF MATHEMATICS (3) Miller

The postulational bases of mathematical systems. Analysis of such fundamental concepts as number, space, and function. The real number continuum; transfinite numbers. Prereq., 118.

206. FOUNDATIONS OF MATHEMATICS (2) Miller

An introduction to mathematical philosophy. Boolean algebra and the system of *Principia Mathematica*. The logistic, formalist, and intuitionist points of view in the foundations of mathematics. Prereq., 118 and either 205 or a course in logic.

208. PROJECTIVE GEOMETRY (3) Marquis

A study of the elements, primitive forms, duality, projectively related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 6.

215. DIFFERENTIAL EQUATIONS (3) Marquis

The formation of a differential equation, types of equations solvable by a transformation, linear equations, integration in series, simultaneous linear equations, and differential equations from mechanics and physics. Prereq., 118.

217. VECTOR ANALYSIS (3) Reed

The elements of vector algebra, the elements of vector calculus, scalar and vector fields, linear vector functions and dyadics, and general coordinates and associated transformation theory. Prereq., 118.

219. ANALYTIC MECHANICS (3) Reed

Moments of mass and inertia, kinematics of a point, curvilinear motion, kinetics of a particle, work, energy, impulse, motion of a particle in a constant field, central forces, and potential energy. Prereq., 118.

221. THEORY OF NUMBERS {1942-1943} (3) Marquis

Division, congruences, Wilson's theorem, Fermat's theorem, Euler's theorem, quadratic reciprocity, and Diophantine equations. Prereq., 118.

226. THEORY OF STATISTICS {1942-1943} (3) Starcher

The normal surface, probability, frequency curves and their uses, sampling theory, multiple correlation, finite differences, and interpolation. Prereq., 118 and 125.

229. READINGS IN MATHEMATICS (3) The staff

A course adaptable to the needs of graduate students and advanced undergraduates, consisting of lectures and discussion of the literature pertaining to topics of major interest. Prereq., 118.

- 301-302. MODERN HIGHER ALGEBRA (3) The staff
Prereq., 118 and 201.
- 311-312. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3) Starcher
Prereq., 201 and 215.
- 319-320. THEORY OF FUNCTIONS OF A REAL VARIABLE (3) Marquis
Prereq., 201 and 215.
395. THESIS (4-8) The staff
Prereq., permission.

MILITARY SCIENCE AND TACTICS

Professor McNeill

Associate Professor Golden

Instructors Fair, Sampsel, Jones, Garn

Assistant Instructor Raber

- 1-2. BASIC INFANTRY (1) Jones, Sampsel
The National Defense Act, leadership, rifle marksmanship, obligations of citizenship, military courtesy and discipline, organization, sanitation and first aid, military history and policy, map reading. 3 hrs. a week. Fee, \$4 for personal equipment for the year.
3. MILITARY BAND (1) Witzler, Fair
Open to students enrolled in military science and tactics. Students enroll concurrently with courses in military science. Students enrolled in the Military Band who have completed Mil. Sc. 1 may substitute training in the band for a part of the hours allotted to close order and other formal drills. 2 hrs. a week. Not open to first semester freshmen for credit.
- 101-102. BASIC INFANTRY (1) Fair, Garn
Military fundamentals, leadership, weapons, musketry, scouting and patrolling, tactical principles. 3 hrs. a week. Prereq., 2.
- 121-122. ADVANCED INFANTRY (3) Fair, Golden
Aerial photograph reading, leadership, weapons, combat principles, elements of field service, military administration, training management, care and operation of motor vehicles. 5 hrs. a week. Prereq., 102.
123. SUMMER TRAINING CAMP (3)
Taken at ROTC Camps established under supervision of the Secretary of War by authority of Section 47a, National Defense Act. Military fundamentals, weapons, combat training, military supply and administration, marches, physical training. 6 weeks. Prereq., 122.
- 151-152. ADVANCED INFANTRY (3) McNeill
Leadership, military law, military history, administration and supply, combat training, mechanization, tanks, anti-aircraft defense, signal communications. 5 hrs. a week. Prereq., 122.

MUSIC

Professors Robinson, Ingerham
Associate Professors Danielson, Janssen, Fontaine
Assistant Professors Kresge, Benedict, Longstreet,
Roach, Blayney, Peterson, Thackrey, Board
Instructors Witham, Morley, Ellis, Maaser, Witzler

APPLIED MUSIC

ORGAN

(1-3) Kresge

Private instruction in organ requires a background of pianistic ability equivalent to 4 semesters of credit. Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$7 for each credit hour.

PERCUSSION INSTRUMENTS

(1-2) Janssen

Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$2 for each credit hour.

PIANO

(1-3) Fontaine, Kresge, Longstreet, Board, Witham

Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$2 for each credit hour.

21-22. CLASS PIANO

(1) Witham

Taught in groups of three individuals. Beginning instruction in pianoforte for adults only; based on the Oxford Piano Course for Adult Beginner. Credit in this course cannot be used toward the fulfillment of any requirements in piano toward graduation. 2 lec. and 5 lab. Fee, \$9.

STRINGED INSTRUMENTS

(1-3) Ingerham, Ellis

Private instruction in violin, viola, violoncello, and double bass. Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$2 for each credit hour.

VOICE

(1-3) Robinson, Benedict, Roach, Peterson, Ellis

Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$2 for each credit hour.

WIND INSTRUMENTS (BRASS)

(1-2) Janssen

Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$2 for each credit hour.

WIND INSTRUMENTS (WOOD)

(1-2) Witzler

Fee, one lesson a week \$15, each additional lesson \$9. Practice room fee \$2 for each credit hour.

HISTORY AND THEORY

5-6. MUSIC APPRECIATION

(2) Benedict

A study of the music heard in concert halls, opera houses, and radio of the present, and some acquaintance with the composers represented, looking toward more intelligent listening and cultural enjoyment. Victrola, piano, organ, and orchestral instruments used for illustrative purposes. Valuable notebook and vocabulary material.

7. MUSIC APPRECIATION (1) Benedict

A survey course to acquaint students with various types of music used in current public performances. Illustrations by victrola, etc., and building of a musical vocabulary. Especially designed for journalism majors.

11, 12. MUSIC HISTORY (2) Peterson

A general development of music from the primitive and ancient peoples through the polyphonic period; the classic music of the eighteenth century. Mus. 12 includes a study of the music of the nineteenth and twentieth centuries; romanticism, impressionism, and tendencies of the present day. A survey of agencies for musical advancement in America.

26. INTRODUCTION TO MUSIC (1) Robinson

An elective course for students other than music majors who wish to obtain a reading knowledge of music: notation, meter, rhythm, scales, key signatures, etc. 1 lec., lab. as required.

105-106. HARMONY (2) Kresge

Formation of major and minor scales, intervals, triads in open and close position, harmonizing melodies and figured basses, seventh chords and their inversions, chord of the ninth on the dominant, modulation to related keys. Three hours a week. Prereq., 4 and 24. Fee, private instruction \$16. No fee for class work.

107-108. KEYBOARD HARMONY (1) Witham

Playing of triads, dominant seventh and arpeggios. Harmonization of melodies in four voice harmony and in full piano style. Improvisation of melodies with accompaniment in phrase and period form, transposition. Prereq., the ability to play a hymn correctly.

109, 110. ENSEMBLE (1) The staff

Participation in the playing or singing of ensemble arrangements of classic and modern compositions.

111-112. HARMONY (2) Kresge

Altered and mixed chords, borrowed tones, modulation, non-chord tones, harmonizing melodies and figured basses, original work. Prereq., 106. Fee, private instruction \$16. No fee for class work.

113-114. ANALYSIS AND FORM (2) Robinson

Detailed analysis of the structure of musical compositions. Material used: the hymnal; *Songs Without Words*, Mendelssohn; sonatas of Beethoven, fugues of Bach. Prereq., 106.

115-116. COUNTERPOINT (2) Fontaine

Single counterpoint in all species, in two, three, or four parts. Mus. 116 develops motive, double counterpoint, free writing on original themes. Prereq., 106.

120. INSTRUMENTOLOGY (1) Janssen

Comparative musicology. A study of musical instruments. An explanation of the physical phenomena of sound generation and reso-

nance precedes a systematic study of the development of the keyboard and wind and string instruments.

129. MELODY WRITING (1) Robinson

A study of the principles involved in melodic construction. Open to anyone who can meet the prerequisite requirements and who has a normal harmonic sensitivity. 2 lab. Prereq., pianoforte 2 hrs. or the equivalent, and permission.

130. ENSEMBLE CONDUCTING (1-6) Robinson, Ingerham, Janssen

An opportunity for study and practical experience in either choral or instrumental conducting. Stress on the use of the baton, attack, release, control, phrasing, and other phases of foundational requirements. Interpretative studies in chorals, anthems, partsongs, and the oratorio, opera, and symphony. Prereq., 2 yrs. university piano and theory courses or permission. Fee, for a major in the course \$24.

133-134. INSTRUMENTATION (2) Janssen

A study of the various orchestral instruments from the standpoint of their range, tonal character, technical limitations, and orchestral uses. Prereq., 106.

137, 138. THE LITERATURE OF MUSIC (1) The staff

A survey of representative literature from the fields of opera, oratorio, art songs, chamber and orchestral music. Illustrated by the Capehart phonograph and individual performance. Prereq., 5 or the equivalent.

139. THE EVOLUTION OF THE OPERA (2) Roach

A survey of the growth of opera as we know it today, including a study of libretti and the great personalities associated with it either as composers or artists. Illustrated by the Capehart phonograph. Prereq., 6 or 11.

140. DEVELOPMENT OF THE PIANOFORTE AND ITS LITERATURE (2) Fontaine

Since the literature for the pianoforte is so voluminous and important, it is considered advisable to offer the student an opportunity to hear a series of lectures. Those electing this course are not required to be pianists. The course is a comprehensive study of the instrument, the primary musical forms adapted to it, and the representative composers. Prereq., 6 or 11.

152. TECHNICAL PROBLEMS IN WOODWIND INSTRUMENTS (1) Witzler

Practical demonstrations on flute, oboe, clarinet, and bassoon showing the problems of good and faulty manipulations. This course deals in reed selection, finger articulations, embouchure, the mouthpiece, and proper sound production. Students are shown how to analyze and to correct faulty playing. 2 lab. Prereq., 166w and 3 hrs. on a woodwind instrument.

207-208. ARRANGING AND SCORING FOR BANDS (2) Janssen

In this course the woodwind, brass, and percussion instruments including the saxophones, sarrusophones and other resources occasionally

used, receive special attention from the aspects of their specialized use in scoring for the modern military and symphonic band. Arranging from vocal, piano and organ music; addition of extra parts to thinly scored compositions; omission of parts from thickly scored compositions; cueing and substitutions of instruments. Orchestral transposition problems and transcribing orchestral music for symphonic band. Projects in original scoring. Prereq., 104, 114, and 134.

211-212. MUSIC HISTORY (2) Peterson

A survey of the growth and development of all forms of vocal music from the monadic period up to the twentieth century era, with emphasis upon conditions influencing expression. The greater composers are studied in reference to their contributions and characteristic styles. Mus. 212 traces the development of instrumental music. Prereq., 6, 12, and 120.

213-214. ORCHESTRATION (2) Janssen

A study of the string quartet, the string trio, the string quintet; strings with pianoforte, strings with wind instruments, and larger combinations; writing for small, medium, and full orchestra; choral, organ, and pianoforte transcriptions; projects in scoring original compositions for orchestra. Prereq., 114 and 133.

215-216. HARMONY (2) Kresge

A study of the evolution of harmony up to and including Wagner. Modulation; original work. Comparison and examination of harmony textbooks. Prereq., 112, 114, and 2 yrs. aural theory.

217-218. COUNTERPOINT (2) Fontaine

The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Students write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prereq., 116.

219-220. MUSIC COMPOSITION (2) Robison

Correlation of the harmonic and contrapuntal principles. Comparison of the rhetorical principles of music and poetry. Original writings in the more simple forms. Prereq., 116 and an average of B in aural theory.

305-306. HARMONY (2) Kresge

A study of the new methods of chord structure in modern harmony, polytonality, atonality, analysis, and original writing. Prereq., 216.

309-310. CANON AND FUGUE (2) Fontaine

A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 218 and permission.

311. MUSICOLOGY (2) Benedict

The music of the eighteenth century. A detailed study of the back-

grounds in literature, general history, social customs, and the fine arts of the classic period, special attention to Haydn and Mozart. Prereq., 212 and Hist. 1, 2.

312. **MUSICOLOGY** (2) Benedict
Beethoven. An intensive study of the major works of the great master and a biographical survey of his life. Prereq., 120 and Hist. 1, 2.

313. **MUSICOLOGY** (2) Benedict
Richard Wagner and the music drama. The social, economic, and political conditions of nineteenth century Germany as reflected in the life of Wagner. The fruition of romantic tendencies in the Wagnerian drama are considered in comparison with nineteenth century opera. *Tannhauser*, part of the *Ring* and *Die Meistersinger* are studied. This course alternates with Mus. 311. Prereq., 212 and Hist. 1, 2.

314. **MUSICOLOGY** (2) Benedict
Twentieth century trends. A study of the impressionism of Debussy and its influence. The motivation of the modernists, Scriabin, Stravinsky, and Schoenberg. This course alternates with Mus. 312. Prereq., 212 and Hist. 1, 2.

325-326. **MUSIC COMPOSITION** (2) Robinson
Extensive writing in the vocal and instrumental forms. The use of modern harmonic principles. Prereq., 220.

327-328. **ADVANCED ORCHESTRATION** (2) Janssen
Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores are performed by the University Orchestra. Students are required to attend an assigned number of orchestra rehearsals. The class work includes criticism of each student's work. Prereq., 116 and 134.

395. **THESIS** (4-8) The staff
Prereq., permission.

MUSIC ACTIVITIES

CHORUS (Summer session only) (1) Robinson
Program material includes chorales, madrigals, and other choral forms. Not open to first semester freshmen for credit.

UNIVERSITY BAND (1) Janssen
Open to men students. Two hours a week are required in practice under the band leader. The University Band sometimes unites with the Military Band. Not open to first semester freshmen for credit.

UNIVERSITY GLEE CLUB, MEN (1) Peterson
Limited to 36 members. Not open to first semester freshmen for credit.

UNIVERSITY GLEE CLUB, WOMEN (1) Benedict
Limited to 36 members. Not open to first semester freshmen for credit.

UNIVERSITY ORCHESTRA

(1) Ingerham

Open to men and women students. Not open to first semester freshmen for credit.

UNIVERSITY VESTED CHOIR

(1) Robinson

An organization of mixed voices composed of the best vocal talent on the campus. The repertoire is confined to the highest type of vocal literature both a cappella and accompanied. Limited to 40 members. Not open to first semester freshmen for credit.

SCHOOL MUSIC**1. MUSIC LITERATURE AND APPRECIATION**

(2) Blayney, Danielson

A general orientation course designed to meet the needs of the classroom teacher and the average music lover. Through performance and listening, an acquaintance with fine music literature is offered, and an appreciation of its relation to everyday life. It places emphasis upon human values in the art, relating it to literature, geography, history, and other arts. Not restricted to students in education. 2 lec., 1 lab.

2. MUSIC FUNDAMENTALS

(2) Blayney, Morley

A course involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week.

3-4. EAR TRAINING

(1) Maaser, Blayney

Study of tone and rhythm, gaining power to recognize by ear, visualize, and write intervals and melodic phrases in all keys. 2 hrs. a week.

23-24. SIGHT SINGING

(1) Maaser, Blayney

Fundamental principles of pitch and rhythm as represented on the staff. Prepared and sight reading of graded materials in one and more parts. 2 hrs. a week.

103-104. EAR TRAINING AND SIGHT SINGING

(2) Maaser

Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Study of form. 4 hrs. a week. Prereq., 4.

121. CAMPUS ORCHESTRA

(1) Thackrey

A laboratory for instrumental majors. It provides practice for those who aim for increased facility in ensemble work. Open to any student who has sufficient skill in playing an orchestral instrument. 2 hrs. a week.

125. MUSIC APPRECIATION FOR GRADE TEACHERS

(1-2) Blayney

Experience in hearing and identifying good music. Appreciation material and effective methods for its presentation.

127. MUSIC APPRECIATION

(3) Danielson

To familiarize students with the best material available for use in the elementary grades and high schools and methods of procedure in developing appreciation. Fee, \$1.

131. MUSIC MATERIALS AND SYSTEMS (2) Blayney
A survey of materials and music systems in general use. An emphasis on choral literature. Prereq., 6 hrs. music teaching techniques.
- 166b. TEACHING OF INSTRUMENTAL MUSIC (3) Ingerham
(Same as Ed. 166b) Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras.
- 166d. TEACHING OF DANCES AND GAMES* (1) Danielson
(Same as Ed. 166d) Dances and games for grades 1 to 8 and methods of presentation.
- 166e. TEACHING OF MUSIC IN ELEMENTARY GRADES (2) Danielson, Blayney
(Same as Ed. 166e) Fee, \$1.
- 166f. TEACHING OF MUSIC IN FIRST SIX GRADES (3) Danielson
(Same as Ed. 166f)
- 166j. TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOL (3) Danielson
(Same as Ed. 166j)
- 166p. TEACHING OF CLASS PIANO (1) Witham
(Same as Ed. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching materials. 2 hrs. a week. Prereq., the equivalent of 2 hrs. piano.
- 166s. TEACHING OF CLASS STRINGED INSTRUMENTS (1) Thackrey
(Same as Ed. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in piano class work in training school. 2 hrs. a week.
- 166v. TEACHING OF CLASS VOICE (2) Robinson
(Same as Ed. 166v) The aim of this course is to develop better choral singing in the schools through the improvement of the individual voice: collective security in pitch, uniformity in vowelization, reconciliation of vocal fundamentals with musical expression. 4 hrs. a week. Prereq., 2 hrs. voice.
- 166w. TEACHING OF CLASS WIND INSTRUMENTS (1) Thackrey
(Same as Ed. 166w) See Mus. 166s.
173. CONDUCTING (1) Danielson
Conducting technique developed. A study of qualities and habits essential to a good conductor. Individual practice in conducting choral material appropriate for use in the junior and the senior high schools. 2 hrs. a week.

*This course may be substituted by school music majors for one hour of required physical welfare.

174. CONDUCTING

(1) Thackrey

Technique and score reading, orchestral conducting, and band conducting. Material suitable for use in the junior and senior high schools considered. Standard symphonies and overtures are conducted in laboratory with the Campus Orchestra. 2 hrs. a week. Prereq., 173.

263. MUSIC TESTS AND MEASUREMENTS

(2) Morley

A study of educational measurements in the field of music. Experimental studies by scientific investigators; the newer movements in evaluating musical talent and accomplishment in school music are reviewed. 2 lec., lab. as required. Prereq., 104, 166j, and Psych. 5.

264. PRACTICAL ACOUSTICS FOR THE MUSIC TEACHER

(2) Thackrey

A continuation study of the physical laws underlying the art of music and the facts and theories upon which these are based. This course is designed to cover particularly those phases of quality and resonance, scales and intervals, musical instruments and the voice, which are not considered in general physics. A careful consideration of musical properties and their correlation with the physical requirements of the music classroom, practice room, and ensemble rehearsal room. 2 lec., lab. as required. Prereq., 104, E.E. 205, 3 hrs. piano, and 3 hrs. voice.

361-362. PROBLEMS IN THE SUPERVISION OF MUSIC

(2) Blayney, Maaser

Investigation of problems connected with teaching and the supervision of music encountered during service. Students will be given opportunity for practice in supervision, and for research in some of the new and unsolved problems in the teaching of music. 2 lec., lab. as required. Prereq., 166f, 166j, 127, 131, 2 hrs. observation, and 4 hrs. student teaching.

PAINTING AND ALLIED ARTS

Professor Mitchell

Associate Professors Way, Willis

Assistant Professors Work, Bedford

Instructors Leonard, Larrick, Riter, Calkin

Courses 9 and 45 are prerequisite to any major interest in Painting and Allied Arts. These courses should be taken in the freshman year.

DESIGN**3. THE ARTS FOR ELEMENTARY TEACHERS**

(2) The staff

Problems involving elementary principles. Planned for students who expect to major in elementary education. 1 lec. and 3 lab.

9. FUNDAMENTALS OF DESIGN

(2) The staff

Principles presented by means of demonstrations and problems. Prerequisite to all major interests in the field of Painting and Allied Arts. 1 lec. and 3 lab.

11. THEORY OF DESIGN

(3) Work

An analysis of fundamental principles of design through experiences in various media and processes. 2 lec. and 4 lab.

12. THEORY OF DESIGN (3) Bedford
Color theory. The qualities of color applied to design problems. 2 lec. and 4 lab. Prereq., 11.
49. COSTUME APPRECIATION (1) Way, Calkin
Application of principles to modern costume for men and women.
- 55-56. ELEMENTARY ARCHITECTURAL PROBLEMS (3) Larrick
Progressive drafting room exercises applied to complete architectural problems. Drafting, sketching, rendering, and model making. 9 lab.
- 60c. TEACHING OF DESIGN FOR EARLY CHILDHOOD (1) Leonard, Calkin
(Same as Ed. 60c) 1 lec. and 1 lab. Prereq., 3.
- 60g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES (1) Leonard, Calkin
(Same as Ed. 60g) 1 lec. and 1 lab. Prereq., 3.
101. DESIGN AND COMPOSITION (2) Willis
Problems in design and composition with special emphasis on color. Planned for students who expect to major in home economics. 1 lec. and 3 lab.
102. APPLIED DESIGN (3) Willis
Principles applied to posters, decorative boxes, wall hangings, painted tapestries, and table decorations. 2 lec. and 4 lab. Prereq., 101.
103. PRACTICAL DESIGN (2) Bedford
Emphasis on application of principles to marionettes, toys, weaving, cardboard construction, clay modeling. 1 lec. and 3 lab. Fee, \$2.
105. APPLIED DESIGN (2) Willis
A special course for home economics transfer students, or for those who have not had P.A.A. 101. Individual problems in inexpensive materials. 1 lec. and 3 lab. Prereq., permission.
113. LETTERING (3) Bedford
Study of form, spacing, alphabet styles, and letter arrangement. 2 lec. and 4 lab. Prereq., 11 or permission.
114. TEXTILE DESIGN (3) Way
All-over patterns with emphasis on principles. 2 lec. and 4 lab. Prereq., 12 or 102.
115. POTTERY (2) Bedford
Clay processes toward functional shape. Study of decoration and history of pottery. 1 lec. and 3 lab. Fee, \$2.
- 123, 124. JEWELRY (2) Willis
Original designs executed in pewter, copper, and silver. Three processes are studied: etching, piercing, and soldering. 1 lec. and 3 lab. Prereq., 3 hrs. and permission. Fee, \$2.

127. WORKSHOP IN THE SPACE ARTS (1-3) Riter
Students assigned to projects for practical experience. 3-9 lab.
Prereq., 6 hrs. and permission.
128. WORKSHOP IN THE SPACE ARTS (1-3) Riter
Practical problems with emphasis on methodical procedure in technical application of principles. 3-9 lab. Prereq., 6 hrs. and permission.
131. MODELING AND SCULPTURE (3) Bedford
Original interpretation of forms in clay, wood, and other suitable materials. 1 lec. and 6 lab. Prereq., 6 hrs. Fee, \$3.
- 137-138. COSTUME DESIGN (2) Way
Design in relation to dress. Designing for individual characters. Adaptations of historic styles to modern costume. Costumes for the stage and for pageants. 1 lec. and 3 lab. Prereq., 12 or permission.
140. DESIGN APPLIED TO MATERIALS (3) Bedford
Emphasis on the direct relation of design applied to both rigid and plastic materials. Problems in weaving, wood, metal, and cloth. 2 lec. and 4 lab. Prereq., 9 hrs.
- 147-148. PRINCIPLES OF THE SPACE ARTS IN ADVERTISING (2) Work
Study of design in advertising, with fundamental problems in the organization and selection of newspaper, magazine, and direct mail layouts. 1 lec. and 3 lab.
152. BOOKBINDING (2) Bedford
Problems in cardboard construction and bookbinding. 1 lec. and 3 lab. Fee, \$2.
154. WEAVING (2) Bedford
Experience in weaving as a medium of design expression. 1 lec. and 3 lab. Fee, \$2.
- 155-156. ARCHITECTURAL PROBLEMS (5) Larrick
An expansion of 55-56 dealing especially with residential and small commercial and public buildings. 15 lab. Prereq., 56 and Math. 6.
- 160h. TEACHING OF THE SPACE ARTS (2) Way
(Same as Ed. 160h) Prereq., 103, 115, and 117, or permission.
- 171-172. HOUSE DECORATION (3) Way
Brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 55 and 12 or 102.
- 185-186. ARCHITECTURAL PROBLEMS (5) Larrick
A continuation of 155-156 dealing more extensively with commercial and public buildings. 15 lab. Prereq., 156.
207. ADVANCED DESIGN (3) Willis
Composition for decorative panels in different media with special emphasis on design. 2 lec. and 4 lab. Prereq., 114, or 8 hrs. and permission.

- 209, 210. PRINTS (3) Work, Riter
Problems in linoleum blocks, Provincetown wood blocks, etching, aquatint, dry-point, lithography, and other related subjects. 2 lec. and 4 lab. Prereq., 12 hrs.
- 213-214. ADVANCED HOUSE DECORATION (3) Way
Floor plans and elevations. Perspective drawings rendered in color. Research is stressed and original adaptations are made from styles of all periods. 2 lec. and 4 lab. Prereq., 172.
216. ADVANCED POTTERY (2) Bedford
Pottery design, glazing and firing, with emphasis on technique and original plans. 1 lec. and 3 lab. Prereq., 12 hrs. including 115. Fee, \$2.
- 217-218. ADVERTISING AND INDUSTRIAL STYLING (3) Work
Magazine, newspaper, and direct mail layouts. Designs for book jackets, packages, bottles, labels, and posters. 2 lec. and 4 lab. Prereq., 10 hrs. including 113.
221. ADVANCED COSTUME DESIGN (2) Way
Application of principles to dress design. Study of the details of costume. 1 lec. and 3 lab. Prereq., 12 hrs. including 138.
225. ADVANCED JEWELRY (2) Willis
A continuation of P.A.A. 124. 1 lec. and 3 lab. Prereq., 12 hrs. including 124. Fee, \$2.
249. ART SUPERVISION AND CURRICULA (2) Way
(Same as Ed. 249) Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h.
- 255-256. ARCHITECTURAL PROBLEMS (5) Larrick
A continuation of 185-186 with application to group problems and large buildings. 15 lab. Prereq., 186.
281. RESEARCH IN DESIGN (1-5) The staff
3-15 lab. Prereq., 15 hrs. and permission.
391. SEMINAR IN DESIGN (1-5) The staff
Prereq., 18 hrs. and permission.
395. THESIS (4-8) The staff
Prereq., permission.

HISTORY

15. INTRODUCTION TO THE SPACE ARTS (2) Mitchell
A general survey of principles used in the graphic and plastic arts.
- 21-22. HISTORY OF THE SPACE ARTS (3) Riter
The principal periods of history are made familiar through a study of the most significant surviving forms.

125. THE ARTS IN EVERYDAY LIFE (2) Bedford, Way
Planned to help the student appreciate and select the best articles available for the home, costume, etc., according to their functional qualities.
157. APPRECIATION OF THE SPACE ARTS (1) Way
Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting.
175. HISTORY OF ARCHITECTURE (3) Larrick
The history of architecture in America with supplementary consideration of European building.
176. CONTEMPORARY ARCHITECTURE (3) Larrick
A discussion of the factors and influences in the development of the architecture of today in America and in Europe.
203. ITALIAN RENAISSANCE PAINTING (3) Riter, Mitchell
The development of painting in Italy during the Renaissance from the early Florentine and Siense schools through the fifteenth and sixteenth centuries in central and northern Italy. Prereq., 8 hrs. including 22.
390. SEMINAR IN HISTORY OF THE SPACE ARTS (2-5) The staff
Prereq., 18 hrs. including 22.
395. THESIS (4-8) The staff
Prereq., permission.

REPRESENTATION

45. METHODS IN REPRESENTATION (2) Mitchell
A study of proportion, structure, depth, and action. Prerequisite to all major interests in the field of Painting and Allied Arts. 1 lec. and 3 lab.
46. METHODS IN REPRESENTATION (2) Mitchell
Color variations in nature related to paint. 1 lec. and 3 lab.
71. SKETCHING (2) Way
Quick sketches from life including action and still poses of figures and animals, out-of-doors sketching, and contour drawing of objects. 1 lec. and 3 lab.
75. REPRESENTATION (3) Mitchell
Practice in methodical representation. 1 lec. and 5 lab. Prereq., 45.
76. THE DEPTH PROBLEM (3) Mitchell
Methodical practice with color variations in depth. 1 lec. and 5 lab. Prereq., 45 and 46 or permission.
- 77-78. ELEMENTARY PHOTOGRAPHY (2) Larrick
Lectures on history and theory of photography and demonstration of methods. General laboratory technique. 1 lec. and 3 lab. Fee, \$2.

117. FORM AND COMPOSITION (3) Willis
 Modern composition and drawing from the post-impressionist point of view, using different media. 2 lec. and 4 lab.
118. WATER COLOR (2) Work
 Painting of still life and landscape composition. 1 lec. and 3 lab. Prereq., 8 hrs.
133. NEWS PHOTOGRAPHY (2) Larrick
 Special course featuring photography for news publications. 1 lec. and 3 lab. Prereq., 77. Fee, \$3.
135. CARICATURE (2) Calkin
 Application of principles of drawing toward commercial cartooning. 1 lec. and 3 lab. Prereq., 75 or permission.
- 143-144. PHOTOGRAPHIC MATERIALS AND PROCESSES (3) Larrick
 Properties of materials and characteristics of processes. 2 lec. and 3 lab. Prereq., 78 and high school chemistry and physics or Chem. 2 and Phys. 6. Fee, \$3.
- 145, 146. PRACTICAL PHOTOGRAPHY (3) Larrick
 Materials and processes toward requirements in the field. 9 lab. Prereq., 144 or permission. Fee, \$3.
- 205-206. PAINTING (3) Mitchell, Riter
 Practical applications of theories and methods of representation in color mediums. 9 lab. Prereq., 12 hrs. including 76.
208. MATERIALS (2) Mitchell
 Source and nature of materials and tools used by the artist. 1 lec. and 3 lab. Prereq., 12 hrs.
211. PRINCIPLES OF MODERN PAINTING (2) Willis
 Foundations in the principles used by the post-impressionists. Practical problems developed in different media. 1 lec. and 3 lab. Prereq., 12 hrs. including 117 or 207.
- 219-220. ADVANCED WATER COLOR (2) Work
 A study of current tendencies in painting. 1 lec. and 3 lab. Prereq., 10 hrs. including 118.
- 241-242. ADVANCED PAINTING (3) Mitchell, Riter
 Practical problems involving advanced techniques. 9 lab. Prereq., 205 or 206.
- 257-258. LANDSCAPE PAINTING (3) Mitchell, Riter
 9 lab. Prereq., 20 hrs. including 206.
- 271, 272. ADVANCED PRACTICAL PHOTOGRAPHY (3) Larrick
 9 lab. Prereq., 146. Fee, \$3.
331. PICTORIAL COMPOSITION (3) Mitchell, Riter
 9 lab. Prereq., 206 and permission.

336. DECORATIVE COMPOSITION (3) Mitchell, Calkin
9 lab. Prereq., 206 and permission.
393. SEMINAR IN PAINTING (3-9) The staff
Prereq., 331 or permission.
395. THESIS (4-8) The staff
Prereq., permission.

PERSONAL RELATIONS

1. COLLEGE PROBLEMS (1) Lange, Voigt
A required course for all freshmen, utilizing the data acquired from such tests as College Ability, Personal Inventory, Reading, Vocational Aptitudes, and so forth. Lectures and conferences during the first semester designed to help the student make his adjustment to the personal problems of college life. Fee, \$1.
201. MARRIAGE (3) Patrick
An analysis of the problems of courtship, marriage, parenthood, and family adjustments in the light of current scientific and philosophical thinking on these topics. While the approach is clinical and the emphasis is on personal factors making for future wholesome marital adjustments, other factors are integrated in order that marriage may be seen in its broader social relations. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social science, or 6 hrs. social science and 6 hrs. biology.
391. SEMINAR IN SUPERVISION AND GUIDANCE OF STUDENT LIFE (3-6) Voigt
A study of the management and direction of women's dormitory units: personality and health adjustments, the objectives and philosophy of extra-class activities, orientation of freshmen to college life. The relationship between the academic and the social life of students forms the basis of discussion and reports. Problems are discussed from the standpoint of the psychological, sociological, and academic bearings on student life. Prereq., 18 hrs. social sciences.
393. LABORATORY IN SUPERVISION AND GUIDANCE OF STUDENT LIFE (3-6) Voigt
This course is designed to give experience in office and counseling techniques through regular service in the office of the dean of women for those members of the course who do not hold fellowships. Fellows perform similar services but receive no academic credit since the service rendered is considered a partial fulfillment of the requirement for service implied in the fellowship stipend. Prereq., 18 hrs. social sciences.
395. THESIS IN SUPERVISION AND GUIDANCE OF STUDENT LIFE (4-6) Voigt
An original research problem immediately related to the field of administration and counseling constitutes the basis of the thesis. Prereq., permission.

PHILOSOPHY

Professors Gamertsfelder, Houf
Assistant Professor Martin

- 81. PROBLEMS OF RELIGION** (1-3 as scheduled) Houf
Deals with some of the major religious and moral problems which perplex present-day youth. Selected problems are treated in lectures, readings, and class discussion.
- 82. INTRODUCTION TO THE BIBLE** (1) Houf
Considers the kinds of books in the Bible, their background and purposes, a sketch of the main ideas, and some methods of Bible study.
- 83. INTRODUCTION TO NEW TESTAMENT THOUGHT (1942-1943)** (3) Houf
The social and religious background and the development of the New Testament writings. Study of the teachings of Jesus and Paul and the other important types of New Testament thought.
- 84. INTRODUCTION TO OLD TESTAMENT THOUGHT** (3) Houf
A study of the content and development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, Jewish philosophizing, religious poetry, and the Messianic hope.
- 85. PRINCIPLES OF REASONING** (2) Martin
An elementary course in the general conditions and principles of correct thinking; the spirit, aims, and methods of investigation in the physical and social sciences.
- 87. ELEMENTARY ETHICS** (2) Houf
The biological and social influences which affect behavior. Introduction to an ethical philosophy of life. Ample time is devoted to a consideration of contemporary personal and social problems.
- 101. GENERAL ETHICS** (3) Martin
Considers the development of moral ideas, the historical ethical theories, and a constructive moral philosophy, including class discussion of the chief personal and social problems of current life.
- 103. INTRODUCTION TO PHILOSOPHY** (3) Gamertsfelder
A study of the underlying principles of knowledge and experience as found in the sciences, morals, religion, and art. The course aims to put the student in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life.
- 105. BRIEF INTRODUCTION TO PHILOSOPHY** (2) Martin
An abbreviation of Phil. 103 for students who desire an acquaintance with philosophy. Not open to students who have had Phil. 103.
- 107. THE WORLD'S GREAT RELIGIONS** (2-3 as scheduled) Houf
A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the great religions of the world.
- 109. LOGIC** (2-3 as scheduled) Martin
A study of the principles and methods of sound reflective thinking as applied in the special sciences, in oral and written exposition, and in argumentation generally. Prereq., junior or senior rank.

111. **BUSINESS AND PROFESSIONAL ETHICS** (2) Houf
The place of business and professional organizations in society; study of the ethical practices and standards in the business world and in some professions. Prereq., junior or senior rank.
113. **AMERICAN PHILOSOPHY** (2-3 as scheduled) Martin
The thought movements in American history, with a view to explaining the philosophical background of our literature, social institutions, and national character. Prereq., 3 hrs.
116. **GREAT THINKERS OF THE ORIENT** (2-3 as scheduled) Houf
Study of representative leaders of thought in ancient and modern China and India, acquainting the student with the chief ideas in the culture and civilization of the East.
117. **SOCIAL AND POLITICAL PHILOSOPHY** (2-3 as scheduled) Houf
After study of the political philosophies now dominant in Germany, Italy, and Russia, analysis is made of the philosophy and practice of liberal democracy, as in the United States. Upon a realistic view of contemporary institutions in theory and practice, is built a constructive philosophy of social democracy.
201. **HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY** (3) Martin
A historical introduction to the problems of philosophy emphasizing the relation of philosophical thought to the growth of the natural sciences and the changes in social theory. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.
202. **HISTORY OF MODERN PHILOSOPHY** (3) Martin
A history of the thought of some of the most influential of modern thinkers with special reference to cultural developments, including the Renaissance, the rise of Protestantism, science and religion, Marxism, and Humanism. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.
204. **ADVANCED SOCIAL PHILOSOPHY** (2-3 as scheduled) Houf
An inquiry into the philosophy of social institutions and social programs. The competing political philosophies of our time, with their meanings for the state, economic activities, education, and general culture. Emphasis upon the problems of democracy. Not open to students who have had Phil. 117. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science.
206. **CONTEMPORARY PHILOSOPHY (1942-1943)** (2) Martin
The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance is made with the leading schools and movements in present-day philosophy. Prereq., 6 hrs.
208. **PHILOSOPHY OF SCIENCE** (2) Martin
This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science.

209. **PHILOSOPHY OF RELIGION** (3) Houf, Martin
The meaning of religion; the relation of religion to other aspects of culture; Christianity and other religions; the existence and nature of God, prayer, the soul and immortality; skepticism and faith. Prereq., 6 hrs.
210. **MINOR STUDIES IN PHILOSOPHY** (1-6) Houf, Martin
A critical study of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Prereq., 6 hrs.
391. **SEMINAR IN PHILOSOPHY** (2-6) The staff
Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Prereq., 15 hrs.
395. **THESIS** (4-8) The staff
Prereq., permission.

PHYSICAL WELFARE

Professor Bird
Associate Professor Hatcher
Assistant Professors Druggan, Trepp, Nessley, LaTourrette
Instructors Rhoads, House, Kellner, Marting, Keyser
See "Athletics" for Coaching Staff

MEN

- 1, 2. **SPORTS** (1) Nessley and staff
The activities offered give the student a selection from the following sports: touch football, tennis, archery, basketball, tumbling, apparatus, fencing, volleyball, boxing and wrestling, handball, paddle tennis, softball, fly and bait casting, badminton, and folk dancing. 3 hrs. a week. Fee, \$1.
6. **PHYSICAL ACTIVITIES** (1) Rhoads
Practical tests in skill and physical efficiency. Required of all majors and minors as a basis for the required courses in physical activities. 3 hrs. a week. Fee, \$1.
- 9, 10. **ADAPTED ACTIVITIES** (1) Trepp
Students whose exercise should be restricted are assigned to activities adapted to their special needs. 3 hrs. a week. Prereq., permission. Fee, \$1.
15. **FOLK AND NATIONAL DANCING** (1) The Staff
Three hours a week. Fee, \$1.
16. **FOLK AND NATIONAL DANCING** (1) The staff
A continuation of P. W. 15 using dances which involve more difficult steps. Three hours a week. Prereq., 15, or dancing experience. Fee, \$1.
20. **INSTRUCTORS' LIFE SAVING METHODS** (1) Rhoads
For students interested in swimming and water front safety. Preparation for Red Cross Instructors' Certificate. Prereq., 18 or Life Saving Certificate. Three hours per week. Fee, \$1.

22. PERSONAL AND PUBLIC HEALTH (3) Trepp
 Provides a knowledge of the hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

35. SOCIAL AND COUNTRY DANCING (1) LaTourrette
 A recreational course for students who wish to learn how to dance. 3 hrs. a week. Fee, \$1.

101, 102. SPORTS (1) Nessley and staff
 Each semester students may elect from the following group two activities in which they are interested: tumbling and apparatus, handball, touch football, ping pong, cross country, boxing and wrestling, fencing, paddle tennis, volleyball, softball, horseshoe pitching, track and field, archery, fly and bait casting, golf, and tennis. 3 hrs. a week. Prereq., 2 or 10. Fee, \$1.

109, 110. ADAPTED ACTIVITIES (1) Trepp
 For students whose physical exercise must be limited. 3 hrs. a week. Prereq., permission. Fee, \$1.

121, 122. PHYSICAL ACTIVITIES (2) Rhoads
 Theory and practice in the following: touch football, soccer, speedball, basketball, handball, swimming, elementary tumbling, apparatus, and fencing. The last 12 weeks of the course include methods and practice in rhythmic activities. 5 hrs. a week. Prereq., 6. Fee, \$1.

123. PHYSICAL ACTIVITIES (1) Herbert and staff
 The various techniques and procedures appropriate for the following activities: archery, golf, tennis, volleyball, and badminton. Consideration is given to individual and group methods. 3 hrs. a week. Prereq., 121, 122. Fee, \$1.

124. PHYSICAL ACTIVITIES (1) Herbert and staff
 Study of formal physical activities. Various systems are reviewed. The development of personal proficiency in the teaching of formal work. The last six weeks of the course include methods and practice in boxing and wrestling. 3 hrs. a week. Prereq., 123. Fee, \$1.

125. SCOUTING (1) Trepp
 An introduction to the Boy Scout movement. Supervision of troops, test passing, and hiking. General characteristics of boys are considered.

127. FIRST AID (2) Herbert
 The treatment of emergencies and accidents in the home, on the street, in vocational pursuits, and on the athletic field. Emphasis on the teaching of safety in the schools. The American Red Cross First Aid Certificate is given to those who pass the required examination. Prereq., 22.

128. ATHLETIC TRAINING (1) Olson
 Theory and practice of massage and physiotherapy. Prereq., 127 and Zool. 115.

133. THEORY AND PRACTICE OF ADAPTED ACTIVITIES (2) Trepp

The principles and practice in the development of good postural habits, activities for the permanently disabled, and exercises for the weak and underdeveloped and those with postural defects. Prereq., 1 yr. zoology.

167d. COACHING OF BASEBALL (1) Peden
(Same as Ed. 167d)167e. COACHING OF BASKETBALL (2) Trautwein
(Same as Ed. 167e)167f. COACHING OF FOOTBALL (2) Peden
(Same as Ed. 167f) Prereq., junior rank.167t. COACHING OF TRACK (1) Herbert
(Same as Ed. 167t)

171. PHYSICAL ACTIVITIES (1) Nessley

Advanced practice in tumbling and apparatus. Some attention to pyramids, the physical education circus, and demonstration. 3 hrs. a week. Prereq., 121, 122. Fee, \$1.

181. INTRAMURAL ATHLETICS (2) Bird, Rhoads

Organization of intramural athletics for elementary school, high school, and college. Includes theory and practice of officiating intramural activities.

MEN AND WOMEN

30. INTRODUCTION TO PHYSICAL WELFARE (1) Nessley

Consideration is given the following: history, purpose, growth and development of health service, health instruction, recreation and athletics, health and physical welfare as a profession, curricula, personal qualifications, specialization, and social relationships.

141. PREVENTION OF DISEASE (2) Druggan
This course deals with the nature, spread, and control of disease.151. PRINCIPLES OF HEALTH (3) Druggan
This course deals with personal, school, and community health; is designed especially for teachers, to assist them in carrying out health educational programs in their schools.152. KINESIOLOGY (2) Trepp
A study of muscular movements and muscular exercises in their relation to the problems of bodily development and efficiency. Includes the physiology of exercise. Prereq., Zool. 115.153. NATURE AND FUNCTION OF PLAY (2) Bird
Play programs for schools, recreation centers, playgrounds, and scouting. Prereq., 6 hrs.167h. TEACHING OF HEALTH (2) Trepp
(Same as Ed. 167h) Instruction, principles, and curricula used in

presenting health information to children of the different school levels. Prereq., 22.

- 167p. **TEACHING OF PHYSICAL WELFARE** (1) Rhoads
 (Same as Ed. 167p) Physical education for elementary and secondary schools. Not required of majors.
204. **PRINCIPLES OF PHYSICAL WELFARE** (2) Rhoads
 Physical education in our modern program of education, its relationship to recreation and health education, and its contribution to living. Curriculum construction in the elementary and secondary schools. Prereq., 16 hrs.
205. **HISTORY OF PHYSICAL EDUCATION** (2) Hatcher
 A study of the development of various systems of physical education and the effects of them on our present day program. Prereq., 16 hrs.
206. **ORGANIZATION AND ADMINISTRATION OF PHYSICAL WELFARE** (2) Bird
 Physical and health education in elementary and secondary schools, normal schools, and colleges. Athletic management, intramural activities, interscholastic and intercollegiate athletics. Prereq., 16 hrs.
209. **PHYSICAL ACTIVITIES TESTS** (2) Nessley and staff
 A theoretical and practical study of available tests and measurements. Tests and measurements are analyzed to determine their place, use, and possibilities in the physical welfare program. Prereq., 10 hrs. Fee, \$1.
249. **COMMUNITY RECREATION** (2) Nessley and staff
 A course for leaders and those interested in guiding leisure time programs. Topics include: brief history of the play movement, programs and program making, general administration of playgrounds, community centers, and activities. Prereq., 10 hrs. including 153. Fee, \$1.
250. **COMMUNITY RECREATION** (2) Bird and others
 A course including recreation crafts such as wood carving, clay modeling, leather craft, metal craft, rug weaving, etc. The various departments specializing in these crafts furnish the instruction. Prereq., 10 hrs. including 153. Fee, \$1.
252. **SCHOOL HEALTH PROGRAM** (3) Trepp
 The construction of the health program emphasizing the school environment, teacher-pupil relationship, accident prevention, special classes for the physically handicapped, and general health instruction. Prereq., 16 hrs. including 22.
351. **HEALTH PROBLEMS** (3) Trepp
 A survey of the contents and relationship of the current problems in health education. An opportunity for the investigation of specific problems and for the study of techniques. Prereq., 15 hrs.
352. **PHYSICAL DIAGNOSIS** (3) Hudson
 A study of the fundamental deficiencies and defects characteristic

of children that handicap normal physical, mental, and social development. A study of the techniques in conducting health examinations, clinical service, etc. Prereq., 15 hrs.

391. SEMINAR IN PHYSICAL WELFARE (3) Bird and staff

For students who desire to pursue special research or investigation in physical welfare. Reviews of current literature and discussions of physical activities. Prereq., 15 hrs.

395. THESIS (4-8) The staff

Prereq., permission.

WOMEN

The following courses satisfy the physical welfare requirement of 4 hours for graduation: Nos. 1 through 18, 27, 35, 103 through 122, 131, 132.

1, 2. SPORTS (1) The staff

Activities are offered according to the season. Students may choose from hockey, soccer, basketball, badminton, tennis, archery, volleyball, baseball. 3 hrs. a week. Fee, \$1.

3. BEGINNING SWIMMING (1) Kellner

For non-swimmers. 3 hrs. a week. Fee, \$1.

4. INTERMEDIATE SWIMMING (1) Kellner

3 hrs. a week. Prereq., 3 or equivalent experience in swimming.

6. ELEMENTARY TAP DANCING (1) Marting

3 hrs. a week. Fee, \$1.

7, 8. MODERN DANCE (1) Marting

Fundamentals of movement technique. An introduction to the concept of movement in relation to time, space (factors), and the factor of dynamics. 3 hrs. a week. Fee, \$1.

9, 10. ADAPTED ACTIVITIES (1) Keyser

For students with postural defects and students whose activities must be restricted because of health. 3 hrs. a week. Prereq., permission. Fee, \$1.

15. FOLK AND NATIONAL DANCING (1) Hatcher, LaTourrette

3 hrs. a week. Fee, \$1.

16. FOLK AND NATIONAL DANCING (1) Hatcher, LaTourrette

A continuation of P. W. 15 using dances which involve more difficult steps. 3 hrs. a week. Prereq., 15, or dancing experience. Fee, \$1.

18. LIFE SAVING METHODS (1) Kellner

All techniques included in the test for the Senior American Red Cross Life Saving Certificate are covered, and the certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1.

22. PERSONAL AND PUBLIC HEALTH (3) Hatcher, Kellner
A course aiming to give the student knowledge of public, personal, and sex hygiene.
27. FUNDAMENTAL RHYTHMS (Summer session only) (1) Marting
Materials for various rhythmic activities at different grade levels. The activities and methods are adapted to meet the needs of the group. Fee, \$1.
35. SOCIAL AND COUNTRY DANCING (1) LaTourrette
A recreational course for students who wish to learn how to dance. 3 hrs. a week. Fee, \$1.
- 101, 102. SPORTS (1) Hatcher
Activities are offered according to season. 3 hrs. a week. Fee, \$1.
- 103, 104. INTERMEDIATE SWIMMING (1) Kellner
3 hrs. a week. Prereq., 3 or equivalent experience in swimming. Fee, \$1.
- 109, 110. ADAPTED ACTIVITIES (1) Keyser
For students whose activities must be restricted. 3 hrs. a week. Prereq., permission. Fee, \$1.
- 111, 112. ADVANCED SWIMMING (1) Kellner
3 hrs. a week. Prereq., 4, 103, 104, or permission. Fee, \$1.
113. HIKING (1) LaTourrette
Hikes are varied as to distance and places visited. First aid and rules of the road for hikers are included. 3 hrs. a week. Fee, \$1.
114. CAMP CRAFT (1) LaTourrette
This includes outdoor cooking and practice in living comfortably in the out-of-doors. One overnight hike is required. 3 hrs. a week. Fee, \$1.
- 115, 116. MODERN DANCE, ADVANCED (1) Marting
More complex coordinations and movement studies. Further study in the rhythmic, spatial, and dynamic bases of dance. Experimentation in form and composition. 3 hrs. a week. Fee, \$1.
- 121, 122. PHYSICAL ACTIVITIES (2) LaTourrette
Individual sports technique, folk dancing, gymnastics, squad work in self-testing activities, tumbling and stunts. Fee, \$1.
125. THE ESSENTIALS OF GIRL SCOUTING (2) LaTourrette
A general introduction to the Girl Scout program. A week end is spent at the local camp to give practical experience in conducting hikes and in doing outdoor cooking. Hobbies in handicraft and in nature, and recreational games and activities are emphasized.
126. SCOUTING PRACTICE (1) LaTourrette
The course consists of actual participation as an assistant in one of the local troops. Prereq., 125.

127. FIRST AID (2) LaTourrette
 Consideration is given to theory and practice of first aid and massage. Some emphasis is placed upon the treatment of athletic injuries. Students are eligible to take the American Red Cross First Aid Instructor's examination.
131. MASS GAMES (1) LaTourrette
 A program of games, suitable for from the fourth grade on, that builds up skills for the highly organized sports of hockey, soccer, basketball, softball, and volleyball. A notebook is required. 3 hrs. a week. Fee, \$1.
132. PHYSICAL WELFARE PRACTICE (1) LaTourrette
 Practice of activities suitable for the elementary school. 3 hrs. a week. Fee, \$1.
133. THEORY OF ADAPTED ACTIVITIES (2) Keyser
 The organization of programs specifically adapted to the needs of physically handicapped individuals. The abnormal conditions of neuromuscular hypertension, weak feet, infantile paralysis, scoliosis, cardiac defects, dysmenorrhea, postoperative cases, etc., are described and therapeutic measures evaluated. Prereq., 152.
134. PRACTICE OF ADAPTED ACTIVITIES (1) Keyser
 Practical experience in working with physically handicapped individuals in classes of adapted activities. Prereq., 133.
135. MATERNAL AND CHILD HEALTH (3) Druggan
 The course deals with the normal biological and physiological processes of human reproduction together with the varied factors which contribute to abnormalities and mortality of both mother and child.
- 137, 138. DANCE PROBLEMS (1-2) Marting
 Composition of dance forms adapted to individual capacities, constructed and utilized. Directed readings on dance and related arts. Prereq., 115 or 116 and permission. Fee, \$1.
139. ATHLETIC OFFICIATING (1) Hatcher, LaTourrette
 Theory and practice of officiating field hockey, soccer, and basketball.
140. ATHLETIC OFFICIATING (1) LaTourrette
 Theory and practice of officiating volleyball, baseball, and track.
142. CAMPING METHODS (2) LaTourrette
 Consideration is given the following: history, purpose, values, programs, qualifications, and responsibilities of directors and counselors of all types of camps.
- 167a. TEACHING OF COACHING (2) Hatcher, LaTourrette
 (Same as Ed. 167a) Theory and practice of coaching field hockey, soccer, and basketball.
- 167b. TEACHING OF COACHING (2) LaTourrette
 (Same as Ed. 167b) Theory and practice of coaching volleyball, baseball, track and field activities.

167k. TEACHING OF PHYSICAL WELFARE IN JUNIOR AND SENIOR HIGH SCHOOLS (2) Hatcher

(Same as Ed. 167k)

167n, 167o. TEACHING OF RHYTHMIC ACTIVITIES (1) Marting

(Same as Ed. 167n, 167o) Methods of teaching folk, tap, ballroom, and modern dance.

167s. TEACHING OF SWIMMING (2) Kellner

(Same as Ed. 167s) Methods and practice in the teaching of swimming.

PHYSICS

Associate Professor McClure

Assistant Professor Roseberry

Instructors Edwards, F. P. Bundy

The major requirement in physics for the B. S. degree is a minimum of 36 semester hours, including Phys. 113, 114; 205; 206; 208; 219-220 or 253-254, 223-224 or 249, 250; 225, 226; and electives from the following: Phys. 211, 214, 225, 226 (2-6); 239-240, 261, and 271-272.

1, 2. THE PHYSICAL WORLD (3) Bundy

The principles underlying nature's activities, their relation to man's needs and interests, and their application in the development of devices and conveniences in modern life. 2 lec. and 2 lab. Fee, \$3.

3, 4. THE PHYSICAL WORLD (3) Edwards

Not open to students in the University College who are required to have a physical laboratory science.

5, 6. INTRODUCTION TO PHYSICS (4) Roseberry, Edwards

Mechanics, heat, sound, electricity, magnetism, and light. Indicated for nontechnical and premedic students. 3 lec. and 2 lab. Fee, \$4.

113, 114. GENERAL PHYSICS (4) McClure, Roseberry

3 lec. and 2 lab. Prereq., Chem. 4 and Math. 6. Fee, \$4.

115. ELEMENTARY SOUND (1) McClure

This course is to supplement Phys. 113 and 114. Some of the topics discussed are: wave motion, sound production, musical scales, sound reception and control, supersonic vibrations, and acoustics of auditoriums. Prereq., Chem. 4 and Math. 6.

168p. TEACHING OF PHYSICS (Summer session only) (2) Edwards

(Same as Ed. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics.

205. LIGHT: INTRODUCTION TO PHYSICAL OPTICS (2) Roseberry

The elementary theory of interference, polarimetry, and special topics of physical optics. Emphasis is placed on experimental and practical applications. It is recommended to be taken in conjunction with Phys. 206. Prereq., 113 and 114.

206. EXPERIMENTAL PHYSICAL OPTICS (1) Roseberry

Practical experimental experience in the use and arrangement of apparatus which involve the principles of physical optics. Special attention is given to the diffraction grating, Michelson interferometer, spectrometer, and polarimeter. 2 lab. Prereq., 113 and 114. Fee, \$1.

208. X RAYS (2) Roseberry

A descriptive course of the principles and applications of X rays to the problems of physics, medicine, and industry. A study of X-ray productions, absorptions, scattering, refraction, crystal diffraction, radiography, X-ray therapy, and applications of X rays to metallurgy. Prereq., 113 and 114.

211. PHYSICAL OPTICS (3) Roseberry

Designed to develop the theory of those phenomena of light which are characteristic of waves. The exact relations between refraction and wave length. The design of achromatic lenses. Diffraction phenomena of single and of many slits. Prereq., 113, 114, and Math. 118.

214. MODERN SPECTROSCOPY (3) Roseberry

The principles and application of spectroscopy. The following topics are discussed: origin of spectra; Ritz principle of combination; Bohr's explanation, series lines in the spectra; neutral and ionized states, ionization potentials, electron orbits; elementary quantum mechanics; and the effect of electric and magnetic fields on a spectral line. Prereq., 113 and 114.

219-220. ELECTRICITY AND MAGNETISM (3) McClure

An advanced course including also electrochemical properties of various substances, the calculation of magnetic fields by integration methods, a study of transient currents through inductive and capacitive circuits. Prereq., 113, 114, and Math. 118.

223-224. IONS, ELECTRONS, AND IONIZING RADIATIONS (3) McClure

Some of the topics are: properties of gaseous ions, the charge of an ion, ionization by collision, cathode rays, emission of electricity from hot bodies, X rays, radium and its products, the electron theory of matter. Prereq., 113, 114, and Math. 118.

225, 226. ADVANCED PHYSICS LABORATORY The staff
Prereq., 113, 114, and Math. 118.

a. Mechanics and Heat. Determination of "g" with physical pendulum, with Kater's pendulum; torsional hysteresis, elastic curves, determination of coefficient of viscosity, surface tension; thermo-couples, heat content of a gas; use of the optical pyrometer. Fee, \$3. (3)

b. Electricity and Magnetism. Calibration of a galvanometer, Raleigh potentiometer, dielectric constants, study of ballistic galvanometer, transients, magnetic hysteresis, use of the oscillograph. Fee, \$3. (3)

c. Advanced Optics. Determination of refractive indices with the spectrometer and refractometer, measurement of wave length with the

grating, use of the interferometer and the polarimeter, spectrum analysis. Fee, \$3. (3)

d. Electronic Physics. Theory and use of the electrometer, the electroscopes for the comparison of radio-activities, the three-electrode tube, verification of Richardson's equation, the Tungar rectifier, conductivity of flames, determination of the charge of the electron, Laue and powder methods for the determination of crystal structure. Fee, \$1 for each credit hour. (1-3)

e. Sound. Frequency measurements of strings, forks, pipes, plates, bars, and cavities. Cathode ray oscilloscope, and neon stroboscope. Sound intensity measurement with Raleigh disk and sound intensity meter. Mechanical and acoustical impedance of speakers. Sound velocity measurements. Fee, \$1 for each credit hour. (1-3)

239-240. GENERAL THERMODYNAMICS (3) Bundy
Prereq., 113, 114, and Math. 118.

249, 250. INTRODUCTION TO MODERN PHYSICS (2) Edwards
Some topics are: elementary quantum of electricity, corpuscular radiations, elementary quantum action, spectra of hydrogen and ionized helium, X-ray spectra, optical spectra, and molecular spectra. Prereq., Math. 118.

253-254. ADVANCED SOUND (2) Green
The fundamentals of sound theory, beginning with a study of vibratory motion in strings, rods, plates, and pipes; analysis of sound, transmission theory of sound, measurements of sound intensity, interference patterns, and stationary waves. Prereq., 113, 114, and Math. 118.

261. MINOR PROBLEMS IN PHYSICS (1-4) The staff
The course permits qualified students to carry out a minor research in any field of physics in order to increase their knowledge and techniques. Prereq., 113, 114; 205, 206, and 208 or 223-224 or 225, 226 or 249, 250; and permission. Fee, \$1 for each credit hour.

271-272. PHYSICS OF THE AIR (3) Bundy
An advanced technical study of the mechanics and thermodynamics of the atmosphere, atmospheric electricity and auroras, meteorological acoustics, atmospheric optics. Prereq., 113, 114, and Math. 118.

305-306. THEORETICAL PHYSICS (3) Edwards
Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, statistical mechanics, kinetic theory. Prereq., 225, 226, and Math. 215.

311-312. ADVANCED ATOMIC STRUCTURE AND THEORY OF QUANTA (3) Roseberry
Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, X-ray and molecular spectra. Prereq., 225 and 226.

381. RESEARCH IN PHYSICS (1-6) The staff
Prereq., 225 and 226. Fee, \$1 for each credit hour.
391. SEMINAR IN PHYSICS (1) The staff
Prereq., 15 hrs.
395. THESIS (4-6) The staff
Prereq., permission.

PSYCHOLOGY

Professors Porter, Lehman, Anderson, Patrick
Associate Professors Scott, Paulsen, Gentry
Instructor Cable

The major requirement in psychology is 24 semester hours including Psych. 1, 101, 109, and 225 with the remaining hours approved by the department advisers. The following courses in other departments and colleges are suggested: Ed. 281, Math. 226, P. R. 201, Stat. 155-156, and Zool. 204.

1. GENERAL PSYCHOLOGY (3) The staff
An elementary, scientific study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1.
2. PSYCHOLOGICAL APPROACH TO EVERYDAY PROBLEMS (3) Patrick, Scott, Gentry
An attempt is made to use the principles of psychology in the solution of the problems and adjustments of everyday life. Prereq., 1.
3. CHILD PSYCHOLOGY (3) Porter
Topics considered: sensory life of a child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1.
4. BUSINESS PSYCHOLOGY (3) Paulsen
A survey of general psychological principles essential for effective adjustment of the individual in business and industry. Prereq., 1.
5. EDUCATIONAL PSYCHOLOGY (3) Lehman, Anderson, Patrick, Paulsen, Gentry
The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Prereq., 1. Fee, \$1.
6. THE PSYCHOLOGY OF ADVERTISING AND SELLING (3) Anderson
Prereq., 1.
7. GENERAL PSYCHOLOGY WITH LABORATORY (4) Paulsen
3 lec. and 2 lab. Fee, \$4.
8. INTRODUCTION TO APPLIED PSYCHOLOGY (3) Scott, Paulsen
Prereq., 1.
9. HOW TO STUDY (3) Gentry
Improvement of the study and reading habits of class members; how teachers may develop more effective pupil study habits. 6 lec.

10. INTRODUCTION TO PSYCHOLOGY OF PERSONALITY (3) Porter
The elementary facts and principles of personality; its measurement by modern methods and the practical application of these measurements particularly to the problems of the student. Prereq., 1.
101. GENERAL PSYCHOLOGY (3) Scott
Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prereq., 1.
109. EXPERIMENTAL PSYCHOLOGY (3) Paulsen
Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Prereq., 1. Fee, \$3.
113. PSYCHOLOGY OF ADOLESCENCE (Junior and Senior High School Pupils) (2) Gentry
A study of the physical growth, glandular changes, and emotions of adolescents. Interests, religious experience, and social adjustment are considered. Prereq., 1.
115. ELEMENTARY MENTAL HYGIENE (3) Patrick
A practical elementary study of personal and social problems of adjustment and mental hygiene. 6 lec. Prereq., 1.
116. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (2) Lehman
The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prereq., 1.
201. ADVANCED EXPERIMENTAL PSYCHOLOGY (3) Paulsen
Research on a topic selected by the student. Prereq., 109 and 3 hrs. additional. Fee, \$3.
203. MENTAL MEASUREMENTS (3) Porter, Anderson, Paulsen
The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Prereq., 6 hrs. Fee, \$1.
204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (2) Lehman
The growth and development of nontypical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prereq., 6 hrs.
205. CLINICAL PSYCHOLOGY (3) Gentry
A survey of methods and some practice in diagnosing certain vocational and educational abilities and disabilities in children and adults. Prereq., 6 hrs.
207. COMPARATIVE AND GENETIC PSYCHOLOGY (3) Patrick
Behavior of lower and higher organisms leading up to man is con-

sidered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Prereq., 6 hrs., or 3 hrs. and 6 hrs. zoology. Fee, \$3.

209. MOTIVATION (3) Patrick

The dynamics of animal and human behavior: a study of drives, desires, wishes, incentives, etc. Prereq., 6 hrs.

210. MENTAL HYGIENE (3) Patrick

The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prereq., 6 hrs. other than 115.

212. ABNORMAL PSYCHOLOGY (3) Porter

Considers man's mental deviations from the normal; the theory, application, and limitations of psycho-analysis; methods of studying abnormal mental processes. Clinics at hospitals. 2 lec. and 1 lab. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. Fee, \$1.

214. PSYCHOLOGY OF RELIGION (2) Anderson

Prereq., 6 hrs. and permission, or 6 hrs. and 6 hrs. philosophy.

215. SOCIAL PSYCHOLOGY (3) Porter

An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prereq., 6 hrs.

217. THE PSYCHOLOGY OF PERSONALITY (3) Porter

Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prereq., 8 hrs.

219. ADVANCED CLINICAL PSYCHOLOGY (3) Gentry

Etiology of behavior disturbances. Symptomatic approach to clinical diagnosis emphasized. Prereq., 12 hrs. including 205.

220. PERSONNEL AND VOCATIONAL COUNSELING (2) Lehman

Topics dealt with will bear upon personnel and vocational problems to be met in industrial, commercial, and school work. 4 lec. Prereq., 6 hrs.

225. MINOR PROBLEMS IN PSYCHOLOGY (1-6) The staff

Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Prereq., 8 hrs. and permission.

233. LEARNING AND MEMORY (2) Anderson

Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs.

235. HISTORY OF PSYCHOLOGY (2) Scott

The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 8 hrs.

237. FEELINGS, EMOTIONS, AND AESTHETICS (2) Patrick

An analysis of studies of the feelings, emotions, and sentiments, and

the role they play in aesthetic appreciation, particularly music and art. Prereq., 6 hrs.

241. **CURRENT PSYCHOLOGICAL LITERATURE** (2) Porter
An attempt to acquaint the student with the leading psychological journals, recent books, and their current contribution. Prereq., 9 hrs.
278. **ADVANCED EDUCATIONAL PSYCHOLOGY** (3) Lehman
A comprehensive study of the acquisition of important skills and knowledges, interests, attitudes, and ideals; problem solving; expression and creative activity; social growth and character formation. Prereq., 5.
302. **ADVANCED MENTAL MEASUREMENTS** (2) Anderson
Special emphasis on use of performance and special tests. Clinical and diagnostic significance of special tests and of test items within the Stanford-Binet. 1 lec. and 1 lab. Prereq., 15 hrs. Fee, \$1.
381. **RESEARCH IN PSYCHOLOGY** (2-4) The staff
Prereq., 15 hrs. and permission.
394. **ADVANCED SEMINAR IN PSYCHOLOGY** (2-4) The staff
Trends and methods in psychology are critically reviewed. Co-operative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission.
395. **THESIS** (4-8) The staff
Prereq., permission.

ROMANCE LANGUAGES

Professors Noss, Whitehouse, Wilkinson
Associate Professor Ondis
Assistant Professor Leete
Instructors Renkenberger, Rice

The major requirement in French, Italian, or Spanish for the A. B. degree is 20 hours above course 1-2 in the language. A major in Romance languages or Romance philology consists of 20 hours above course 1-2 in one language and at least one year in each of the two other Romance languages.

A candidate for the master's degree with a major in a Romance language is required to include at least 4 hours of Romance philology in courses above 300; such a candidate with a minor in a Romance language is urged to include at least 2 hours in a philology course above 300.

FRENCH

- 1-2. **BEGINNING FRENCH** (4) The staff
Essentials of grammar, pronunciation, conversation, and reading.
100. **INTERMEDIATE FRENCH** (Summer session only) (1-3) Noss
Review of grammar, composition, conversation, and varied readings. The course fits the needs of those desiring either semester of second year French, and it may be taken either before or after Fr. 101 without duplication. Prereq., 2, or 2 yrs. high school French.

- 101-102. INTERMEDIATE FRENCH (4) The staff
Grammar review, drill in idioms and composition, and reading of a variety of texts in modern French literature. Prereq., 2 or 2 yrs. high school French.
- 119, 120. FRENCH CIVILIZATION (2-3) Noss
A survey of the geography, history, current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Prereq., 102.
- 123, 124. FRENCH CONVERSATION (1-2) The staff
This course affords an opportunity to develop the student's ability to speak French. A class text and French periodicals are used for subject matter. A simultaneous literature course is also recommended. Prereq., 102 or 3 yrs. of high school French.
- 165f. TEACHING OF FRENCH (2) Noss
(Same as Ed. 165f) Prereq., 102.
- 165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR (2-3) Wilkinson
(Same as Ed. 165o) Prereq., 261 or, in unusual cases, special permission and 102.
- 201, 202. SURVEY OF FRENCH LITERATURE (1-4) Wilkinson, Rice
Lectures, readings, and reports affording a general view of the subject from the beginning to the present time. Lectures are given in French with regular class tests in English. Special topics for investigation by advanced students. Prereq., 102.
- 203, 204. READINGS FROM FRENCH LITERATURE (1-8) The staff
Selections vary with the needs of the class or the student. Prereq., 102.
- 205, 206. THE FRENCH NOVEL (1-3) Rice
History of the novel in France from the Middle Ages to modern times. Prereq., 102.
- 211, 212. SEVENTEENTH CENTURY DRAMA (3) Noss
A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102.
215. FRENCH PHONETICS (2) Noss
A study of French pronunciation by the use of international phonetic symbols. Analysis of sounds and their formation, principles of syllabication, and intonation. Use of phonograph records. Prereq., 102.
- 219, 220. FRENCH ROMANTICISM (2) Noss
A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 6 hrs. beyond 102.
225. OLD FRENCH LITERATURE (2) Noss
French literature to the end of the fifteenth century. No previous

knowledge of Old French is required. A modern French translation accompanies the Old French in the text used. Prereq., 6 hrs. beyond 102.

228. SIXTEENTH CENTURY FRENCH LITERATURE (2) Noss

Development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prereq., 6 hrs. beyond 102.

231, 232. SEVENTEENTH CENTURY FRENCH LITERATURE (2-3) Noss

Study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fontaine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prereq., 102.

235, 236. EIGHTEENTH CENTURY FRENCH LITERATURE (1-6) Renkenberger

A study of the literature of France from 1715 to the French Revolution. Readings and reports, class discussions, and lectures. Prereq., 102.

239, 240. NINETEENTH CENTURY FRENCH DRAMA (1-4) Wilkinson

History of the French drama beginning with the preromantic movement and continuing to the present. Lectures in French with regular class tests in English. Special topics for investigation by advanced students. Collateral readings and reports. Prereq., 102.

243, 244. ADVANCED FRENCH COMPOSITION (1-2) Wilkinson

Includes drill in pronunciation. Prereq., 102.

251, 252. MODERN FRENCH FICTION (3) Noss, Leete

A reading course on the novel from 1880 to the present. The ability to understand and use spoken French with ease is not required. Prereq., 102.

261. ADVANCED FRENCH GRAMMAR (1-3) Wilkinson

Prereq., 3 yrs. of college French or B in 102.

271. ADVANCED FRENCH (1-16) Noss

Specialized courses conducted in French designed to meet the special interests of advanced students. Prereq., 9 hrs. beyond 102.

- b. Boileau
- d. Modern French Drama
- m. Moliere
- n. Modern French Novel
- po. Nineteenth Century Poetry
- pr. Seventeenth Century Prose
- r. Racine
- s. Mme. de Sevigne

281. RESEARCH IN FRENCH LANGUAGE AND LITERATURE (1-16) The staff

A course designed to promote independent work in the study of special linguistic and literary problems. Prereq., 14 hrs. beyond 102 and permission.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)

See "Romance Philology."

325-326. ROMANCE PHILOLOGY (SOUTHERN FRENCH AND CATALAN)

See "Romance Philology."

395. THESIS (4-8) The staff
Prereq., permission.

ITALIAN

- 1-2. BEGINNING ITALIAN (1-5) The staff
Pronunciation, principles of Italian grammar, and practice in the use of the language.

- 101-102. INTERMEDIATE ITALIAN (1-4) The staff
Review grammar, idioms, and reading in modern Italian literature with some emphasis on diction and conversation; also a systematic study of the verb. Prereq., 2 or 2 yrs. high school Italian.

103. ITALIAN CULTURE AND CIVILIZATION (1) Odis
Background of the culture of Italy as reflected in its art, literature, social, and political institutions. Regional customs. Given in English.

- 201, 202. SURVEY OF ITALIAN LITERATURE (1-3) The staff
Brief outline of the history of Italian literature given in English or in Italian according to the nature and preparation of the class. Prereq., 102.

- 203, 204. READINGS FROM ITALIAN LITERATURE (1-4) The staff
Selections vary with the needs of the class or the student. Prereq., 102.

- 209, 210. ITALIAN COMPOSITION (1-2) The staff
An advanced course. Prereq., 102.

271. ADVANCED ITALIAN (1-16) The staff
Advanced work in language and literature with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Prereq., 20 hrs. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affection in Italian letters with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell' Italia Moderna.

331-332. ROMANCE PHILOLOGY (OLD ITALIAN)

See "Romance Philology."

395. THESIS

(4-8) The staff

Prereq., permission.

PORTUGUESE

1-2. BEGINNING PORTUGUESE

(4) Whitehouse

Introduction to the rudiments of Portuguese, supplemented by reading and practice in the spoken language.

ROMANCE PHILOLOGY

1. PRONUNCIATION OF ROMANCE LANGUAGES

(1) The staff

Pronunciation of French, Italian, and Spanish. No previous knowledge of the languages is required or presupposed.

225-226. GENERAL ROMANCE LINGUISTICS

(1) The staff

Introduction to graduate courses in philology. A study of Vulgar Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prereq., Fr., It., or Sp. 102, and another Rom. Lang. 2 or Lat. 102.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)

(2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in French. Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required.

325-326. ROMANCE PHILOLOGY (OLD PROVENÇAL—SOUTHERN FRENCH AND CATALAN)

(2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Provençal. Prereq., 16 hrs. in each of two Romance languages or in one Romance language and Latin. Rom. Philol. 226 is advised but not required.

331-332. ROMANCE PHILOLOGY (OLD ITALIAN)

(2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Italian. Prereq., 16 hrs. in Italian and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)

(2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. Rom. Philol. 226 is advised but not required.

391. SEMINAR IN ROMANCE PHILOLOGY (2-4) The staff
Prereq., 226, Rom. Lang. 102 in two of the languages, and Rom. Lang. 2 in the third.
395. THESIS (4-8) The staff
Prereq., permission.

SPANISH

- 1-2. BEGINNING SPANISH (4) The staff
Introduction to the rudiments of Spanish grammar. Reading and practice in conversation.
100. INTERMEDIATE SPANISH (Summer session only) (1-3) Whitehouse
Review of grammar with composition and varied readings. The course fits the needs of those desiring either semester of second year Spanish, and it may be taken either before or after Sp. 101 without duplication. Prereq., 2 or 2 yrs. high school Spanish.
- 101-102. INTERMEDIATE SPANISH (4) The staff
Review of grammar, study of idioms, composition, conversation, and varied reading in modern literature. Prereq., 2 or 2 yrs. high school Spanish.
103. SPANISH CULTURE AND CIVILIZATION (1-2) Whitehouse
The history, literature, and cultural development of Spain. Conducted in English.
- 113, 114. SPANISH COMPOSITION AND CONVERSATION (1-2) Whitehouse, Ondis
Prereq., 102.
- 165s. TEACHING OF SPANISH (2) Whitehouse, Ondis
(Same as Ed. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., 102.
- 201, 202. SURVEY OF SPANISH LITERATURE (3) Whitehouse, Ondis
Historic and literary study of Spain from the middle ages to the present time. Prereq., 102.
- 203, 204. READINGS FROM SPANISH LITERATURE (1-4) The staff
Selections vary with the needs of the class and the student. Prereq., 102.
- 205, 206. THE SPANISH DRAMA (2-3) The staff
Sp. 205 traces the drama in Spain from its origins to 1700; Sp. 206, from 1700 to the present. Prereq., 102.
207. THE GOLDEN AGE (2-3) Whitehouse, Ondis
Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderon, Tirso de Molina, etc., and some prose, except Cervantes, are read. Prereq., 102.

208. CERVANTES (3) Whitehouse, Ondis
The chief works of Cervantes are studied, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prereq., 102.
- 209, 210. OLD SPANISH (1-2) The staff
Readings in Spanish literature prior to the fifteenth century. The *Poema del Cid* is read and studied with attention given to the development of the Spanish language. Prereq., 102.
211. SPANISH AMERICAN LITERATURE (1-6) Whitehouse, Ondis
Important literary productions of the chief Spanish American countries are read. The Modernista movement is studied in its greatest exponent Ruben Dario. Prereq., 102.
212. NINETEENTH CENTURY SPANISH LITERATURE (2) Whitehouse, Ondis
Prereq., 102.
213. CONTEMPORARY SPANISH LITERATURE (2) Whitehouse, Ondis
Prereq., 102.
- 215, 216. THE SPANISH NOVEL (2-3) The staff
Sp. 215 covers the evolution of the novel in Spain from the earliest times to 1700; Sp. 216, the Spanish novel from 1700 to the present. Prereq., 102.
217. HISTORY OF SPAIN (1) Whitehouse, Ondis
Prereq., 102.
- 219, 220. SPANISH POETRY (2-3) The staff
Sp. 219 studies the poetry of Spain from the origins to 1700; Sp. 220, the poetry from 1700 to the present. Prereq., 102.
271. ADVANCED SPANISH (1-16) Whitehouse, Ondis
Prereq., 20 hrs.
a. Early period. The Epic and Chronicles.
b. Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.
c. The Romancero. The Romances of Chivalry and the realistic novel.
d. Sixteenth century. The mystics. Three types of novel: Moorish, pastoral, and picaresque.
e. Seventeenth century. The works of Cervantes, except the *Quijote*, and the chief dramatists.
f. Development of the theatre in the seventeenth century.
g. Recent developments in Spanish literature: novel, drama, and essay.
h. Benito Perez Galdos. Novels.
291. RESEARCH IN SPANISH (2-4) Whitehouse, Ondis
Prereq., 102.
- 341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)
See "Romance Philology."
395. THESIS (4-8) The staff
Prereq., permission.

ROMANCE PHILOLOGY—See Romance Languages

SECRETARIAL STUDIES—See Commerce

SOCIOLOGY

Associate Professors Jeddelloh, Taylor
Assistant Professor Shannon
Instructors MacTavish, Oberdorfer

1. GENERAL SOCIOLOGY

(3) Jeddelloh, Taylor, Oberdorfer

An elementary study of fundamental characteristics of culture and society; an analysis of social groups, social institutions, and social processes; the nature of social change; and sociology as a social science.

2. SOCIAL PROBLEMS

(3) Jeddelloh, Taylor, Shannon, Oberdorfer

An elementary study of a limited number of social problems revealing the stresses and strains of contemporary social life as they affect the human personality, the family, the community and its institutions, and some aspects of national life; the application of sociological principles, methods, and techniques in the analysis of problems; the evaluation of solutions and programs. Prereq., 1 or permission.

5. RURAL SOCIOLOGY

(2) Taylor

The composition of rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups, and the major rural social processes.

101. PRINCIPLES OF SOCIOLOGY

(3) Jeddelloh, Taylor, Shannon

A somewhat more intensive study than Soc. 1 of the basic facts and principles of human society, of factors and forces which condition social life, and of major concepts and techniques employed in sociological investigation and interpretation. Not open to students who have had Soc. 1.

103. SOCIAL CHANGE AND SOCIAL PROBLEMS

(3) Jeddelloh, Taylor, Shannon, Oberdorfer

A general survey of major social problems characteristic of a rapidly changing society with special emphasis on the role of natural resources, biological equipment, technology, economic organization, and certain social institutions; programs of social reorganization; the theory, methods, and tools of applied sociology. Not open to those who have had Soc. 2. Prereq., 3 hrs.

104. COMMUNITY ORGANIZATION

(2) Shannon

An analysis of the structure and intergroup relationships of the modern community. The cultural, ecological, and geographic pattern of the community; group integration and disorganizing forces in the community. Prereq., 3 hrs.

105. RACE RELATIONS

(3) Shannon

A survey of the status and adjustment of minority racial groups in the United States, with special attention to the American Negro. Prob-

lems of race consciousness, race prejudice, and race conflicts. Regional variations in interracial conflicts and adjustments. Prereq., 3 hrs.

106. RURAL SOCIAL ORGANIZATION (2) Taylor

The basic organizations in rural life including the Grange, Farm Bureau, Rural Extension Work, farmers' cooperatives, and governmental agencies; the structure and function of private organizations which aim to improve rural life. Prereq., 3 hrs.

107. EDUCATIONAL SOCIOLOGY (3) Jeddleloh

A study of the social nature and function of education in contemporary society; factors influencing the social status and personalities of pupils; the problem child in school; sociological aspects of learning, teaching, classroom organization, and the curriculum; the school in its relation to the community. Supplementary laboratory work and field observations. Prereq., 3 hrs.

110. PSYCHOLOGICAL FACTORS IN SOCIETY (3) Oberdorfer

The social and cultural foundations of human personality. An analysis of the role of language in behavior, prejudice, crowds, audiences, publics, fashion, public opinion, leadership, censorship, and propaganda. Prereq., 3 hrs.

122. DEVELOPMENT OF WESTERN CIVILIZATION (3) The staff

The civilizations of the Hebrews, Egyptians, Greeks, and Romans with special emphasis on those elements in their culture which have been incorporated in modern western civilization. A critical study of the processes and experiences of the peoples of medieval Europe in building a composite culture. Prereq., 3 hrs.

125. SOCIAL ANTHROPOLOGY (3) Taylor

A study of primitive people and their institutions in prehistoric and modern times for the purpose of recognizing universal human traits and the backgrounds of modern civilization. Prereq., 3 hrs.

133. THE FIELD OF SOCIAL WORK (2) Shannon

A survey of the functions, methods, and philosophy of professional social work, its relation to other professions, the divisions of the field, personal qualifications and academic preparation required, and trends in employment opportunities. Prereq., 3 hrs.

137. SOCIAL STATISTICS (3) Oberdorfer

A survey of elementary statistical concepts with special applications to social data: methods of tabulation, graphical representation, measures of central tendency, dispersion, and correlation; elementary problems of sampling. Prereq., 3 hrs.

169s. TEACHING OF SOCIAL SCIENCE (2) Jeddleloh

(Same as Ed. 169s) A study of objectives and other basic aspects of the social science curriculum; the construction of courses of study; an examination of classroom, laboratory, and field techniques; and a discussion of the professional relations of the social science teacher to school and community.

- 201. INDUSTRIAL SOCIOLOGY** (3) The staff
The interrelation of business organization with other aspects of contemporary society and culture; the relation of business groups to community problems and community organization; a critical examination of attitudes and proposals of business groups regarding major issues and programs of public welfare. Prereq., 6 hrs.
- 204. SOCIOLOGY OF RECREATION** (3) Jeddleloh
The historical antecedents and the contemporary functions of recreation and leisure in modern society; theories of motivation; sociologically important trends in contemporary art, music, drama, motion picture, the dance, literature, sports, outdoor living, and travel; community programs of recreation. Prereq., 6 hrs.
- 208. MARRIAGE AND THE FAMILY** (3) Shannon
A study of the institutional and human nature aspects of modern marriage and the family. Attention is given to the formation of personality in the parental family, courtship and marriage relations, family and marital disorganization, and the impact of social change on the family. Prereq., 6 hrs.
- 209. SOCIAL CONTROL** (3) Oberdorfer
A study of the means by which social groups regulate the behavior of members and enforce group-accepted standards of value and conduct. Prereq., 6 hrs.
- 210. SOCIAL THEORY** (3) Taylor
The sociological ideas of Auguste Comte and Herbert Spencer. The leading contributions of sociologists both abroad and in the United States down to the present. Prereq., 6 hrs.
- 211. CRIMINOLOGY AND PENOLOGY** (3) Jeddleloh
The course surveys general facts with respect to crime, the criminal, and his treatment by society. Particular attention is paid to measures and theories which point in the direction of a scientific criminology. Prereq., 6 hrs.
- 212. POPULATION PROBLEMS** (3) Oberdorfer
The major problems of population quantity, quality, and movement in the modern world. Differential fertility, birth control, eugenics, immigration, and internal migration are among the problems treated. Elementary concepts of vital statistics are presented. Prereq., 6 hrs.
- 218. URBAN SOCIOLOGY** (3) Jeddleloh
The historical development of cities in western society; cities by location, function, and region; trends in urban populations; ecological and cultural studies of urban areas; urban problems of welfare, housing, and recreation; city and regional planning. Prereq., 6 hrs.
- 221. CONTEMPORARY SOCIAL MOVEMENTS** (3) Taylor
The better known Utopian and socialistic philosophies. The two significant social experiments of the present time, communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs.

222. JUVENILE DELINQUENCY (3) Jeddleloh
 Factors associated with juvenile delinquency, characteristics of delinquents, juvenile court procedure, probation, correctional training in institutions, plans and programs for the prevention of delinquency. Field contact and the handling of realistic data. Prereq., 6 hrs.
223. POVERTY AND ECONOMIC INSECURITY (3) Shannon
 Poverty and economic insecurity with emphasis on measures of treatment and prevention. Social insurance and recent legislation for social security in the United States. Prereq., 6 hrs.
224. CHILD WELFARE (3) MacTavish
 Two fundamental phases are considered and discussed: problems of children and child welfare services from a private and public agency point of view. Prereq., 6 hrs.
234. PUBLIC ASSISTANCE (3) Shannon
 Local, state, and federal organization for relief and public assistance. Analysis and evaluation of direct and work relief programs. Study of case materials dealing with principles and practices of public assistance to dependent children, the blind, the aged, and the unemployed. Prereq., 9 hrs. including 223.
235. PUBLIC WELFARE ADMINISTRATION (3) Shannon
 The history, functions, and problems of organization and administration of public welfare in local, state, and federal governments. Specific problems include relationship between public and private agencies, supervision and control, selection of personnel, need for reorganization, and financing. Prereq., 6 hrs.
236. PROPAGANDA (3) Taylor
 Methods and techniques of propaganda; its legitimate uses and its abuses; its relation to such social phenomena as stereotypes; sentiments, public opinion, social attitudes, and mass convictions. Prereq., 6 hrs.
238. SOCIAL DYNAMICS (3) Jeddleloh
 The problem of social causation; a critical examination of the philosophic and scientific bases of current theories of social change; the analysis and measurement of social trends; the interrelation between scientific and technological culture traits and social institutions; the problem of social planning. Prereq., 9 hrs.
239. INTRODUCTION TO CASE WORK (2) MacTavish
 An introductory course to guide students in understanding the case work process in relation to the function of the various branches of case work. The case study method is studied from the following aspects: exploration, analysis, and methods of helping people out of trouble. Prereq., 9 hrs.
240. ADVANCED CASE WORK (2) MacTavish
 Continuation of Soc. 239 which broadens and deepens the understanding which has developed through the previous course and applies it to the more advanced type of case in actual practice. Prereq., 12 hrs. including 239.

241-242. JUVENILE COURT SERVICES

(2) MacTavish

A university field work unit is maintained by a cooperative plan with the Juvenile and Probate Courts of Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 9 hrs., and 239 or with 239. Fee, \$5.

243-244. CHILD WELFARE SERVICES

(2) MacTavish

A university field work unit is maintained through a cooperative plan with child welfare service in Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., permission. Fee, \$5.

245-246. FAMILY WELFARE SERVICES

(2) MacTavish

The family case worker is trained through a cooperative plan with a selected family welfare agency working in the rural counties of this region. Two school days each week must be reserved for field work. Prereq., 9 hrs., and 239 or with 239. Fee, \$5.

247a. VISITING TEACHER (Summer session only)

(3) MacTavish

(Same as Ed. 247a) A survey course in case work for teachers to consider the specific functions, relationships, and objectives of social case work in a school setting; the study of individual personalities of children and their behavior problems in relation to the school, home, and community; the demonstration of the effectiveness of early constructive work with individual maladjustments; supervised field work practice in visiting teacher work through the use of actual problem cases from the public schools. 3 lec. and field work. Prereq., 6 hrs., teaching experience, and permission. Fee, \$3.

253. INSTITUTIONAL SOCIAL SERVICE (Summer session only)

(3-5) Jeddelloh

Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution. Prereq., 12 hrs. and permission.

255. INTERNESHIP TRAINING IN JUVENILE COURTS

(6) Jeddelloh, MacTavish

Training in staff duties in juvenile courts on an internship basis, supplemented by a controlled program of study and research. Prereq., 15 hrs.

261. RURAL SURVEY AND PLANNING

(2) MacTavish

A social inventory of social work problems and community needs will be made by employing methods of social research. Students will work out integrated plans illustrated by social maps and diagrams to alleviate community ills. Prereq., 9 hrs. including 106.

281. SOCIAL RESEARCH

(3) Oberdorfer

The methods of quantitative and qualitative social research are presented. Procedures for planning, organizing, and conducting research projects are analyzed. Applications are made to specific problems by the students. Prereq., 9 hrs. including a course in statistics.

381. RESEARCH PROBLEMS IN SOCIOLOGY (2-3) The staff
Prereq., 12 hrs.
391. SEMINAR IN SOCIOLOGY (2-3) The staff
Prereq., 15 hrs.
395. THESIS (4-8) The staff
Prereq., permission.

SPANISH—See Romance Languages

SPEECH—See Dramatic Art

STATISTICS—See Commerce, Education, and Mathematics

ZOOLOGY

Professors Kreckler, Elliott, Frey
Associate Professors Rowles, Stehr
Instructor Gier

The major requirement in zoology for the A. B. degree is a minimum of 24 hours in courses approved by the department advisers; for the B. S. degree, a minimum of 36 hours. Students who substitute a year in medical or dental school for the senior year or who complete the hospital training in medical technology or nursing are credited with 16 hours on the major for a B. S. degree and 8 hours on the major for the A. B. degree.

Curricula are outlined by the College of Arts and Sciences for students in pre-medical, pre-dental, nursing, and medical technology courses. Students who wish to prepare for federal or state biological services such as game management, biological surveys, fisheries, and insect control should confer with the chairman of the department and should make appropriate selections from the following courses: Zool. 3-4, 107, 118, 126, 205, 206, 216, 220, 225-226, 233, 234, 236, 243, 383, and 385.

3-4. GENERAL ZOOLOGY (3) Kreckler, Stehr, Gier

A survey of zoological and biological principles. Chief topics: organization and physiology of a typical animal; review of the animal kingdom including references to economic importance, habits, life histories; principles involved in the evolution of organisms and society; distribution and relation of animals to their environment; doctrine of evolution; principles of heredity. 2 lec. and 2 lab. Fee, \$3.

103. READINGS IN BIOLOGY (1) Kreckler

A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Prereq., 4 or high school biology. Fee, \$1.

107. PRINCIPLES OF HEREDITY (3) Kreckler

An introduction to heredity. Fundamental principles and mechanism of heredity and a review of what is known regarding heredity in man.

Consideration of practical applications to heredity in social welfare, public affairs, and race betterment. Prereq., 4, or 6 hrs. botany.

110. ORGANIC EVOLUTION (Not offered in 1941-1942) (3) Kreckler

A consideration of the evidence for evolution and the factors involved in the process, theories of the method of evolution, and the history of the concept of evolution in its bearing upon human civilization. Prereq., 4, or 6 hrs. botany.

112. COMPARATIVE VERTEBRATE ANATOMY (4) Elliott

A comparative study of the various body systems of vertebrates, with laboratory work covering the amphioxus, lamprey, shark, frog, and turtle. 2 lec. and 4 lab. Prereq., 4. Fee, \$5.

115. ELEMENTS OF ANATOMY (3) Elliott

A study of the anatomy of a mammal illustrated by the dissection of a cat. For physical welfare students and majors in zoology with the exception of pre-medical students. 2 lec. and 2 lab. Prereq., 4. Fee, \$5.

118. ORNITHOLOGY (3) Gier

A general study of birds emphasizing their identification, migration, life histories, and economic value. Field trips are taken to identify the birds of the vicinity. 2 lec., 2 lab., and field work. Prereq., 4. Fee, \$3.

119. GENERAL ENTOMOLOGY (4) Stehr

A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Prereq., 4. Fee, \$4.

125. ELEMENTS OF PHYSIOLOGY (4) Rowles

Digestion, metabolism, circulation, respiration, reproduction, internal secretion. Recommended for home economics students and department majors exclusive of pre-medical students. Offered each semester. 2 lec. and 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. A knowledge of organic chemistry is desirable. Fee, \$4.

126. ELEMENTS OF PHYSIOLOGY (4) Rowles

Physiology of muscle and nerve, central nervous system, special senses, circulation, respiration, excretion. Recommended for physical welfare students. 2 lec. and 4 lab. Prereq., 112 or 115. Fee, \$4.

128. HISTOLOGY (Not offered in 1941-1942) (4) Elliott

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the various body systems. 2 lec. and 4 lab. Prereq., 4, or 6 hrs. botany, or 8 hrs. chemistry. Fee, \$4.

133. ANIMAL MICROTECHNIC (3) Elliott

The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 4 lab. Prereq., 4. Fee, \$5.

141. ELEMENTARY BACTERIOLOGY

(4) Frey

Morphology and physiology of bacteria, staining reactions, preparation of media, and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 211. 2 lec. and 4 lab. Prereq., 4, or 6 hrs. botany, or 8 hrs. chemistry. Fee, \$4.

145. CLINICAL TECHNIC

(2-8) Frey

The theory and practice of making various tests used in laboratories of clinical pathology: blood counts, blood matching and typing, blood chemistry, urinalysis, gastric analysis, sputum examinations, functional tests, serological methods including Wassermann's applied bacteriology, and the making of vaccines. Prereq., 211 and permission. Fee, \$1 for each credit hour.

168z. TEACHING OF ZOOLOGY

(2) Stehr

(Same as Ed. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., 4 and an additional laboratory course in zoology.

201. MAMMALIAN ANATOMY

(4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Prereq., 112. Fee, \$5.

202. VERTEBRATE EMBRYOLOGY

(4) Elliott

The development of vertebrates illustrated by the chick and the pig. A preliminary consideration of fertilization and maturation followed by a study of the formation of foetal membranes and the development of the various body systems. 2 lec. and 6 lab. Prereq., 112. Fee, lab. \$4, breakage \$5.

204. VERTEBRATE NEUROLOGY

(4) Elliott

A comparative study of the brain and spinal cord of vertebrates with emphasis upon the reaction systems. A preliminary study of the embryological development and general histological structure of the nervous system. Dissections of the brain of shark, sheep, and man are followed by a microscopic study of various levels of brain and spinal cord. 2 lec. and 4 lab. Prereq., 112 or 115. Fee, \$5.

205. PRINCIPLES OF PHYSIOLOGY

(4) Rowles

Fundamental principles of the activity of living things, the physiochemical composition of living material, the functions of cell components, properties of solutions, membrane phenomena, enzymes, secretions, and biological media. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Prereq., 4 and Chem. 2 or 4. Fee, \$5.

206. BEHAVIOR AND THE PHYSIOLOGY OF THE NERVOUS SYSTEM

(4) Rowles

Amoeboid and ciliary movement, muscle and nerve, central nervous system, special senses, and behavior in selected animal groups. 2 lec.

and 4 lab. Prereq., 4 and 4 hrs. physiology, or 9 hrs. psychology, or 112. Fee, \$4.

209. BIOLOGICAL CHEMISTRY (4) Rowles

A brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats, digestion, and metabolism; chemical analysis of: blood, lymph, bile, faeces, milk, epithelial and connective tissue, and urine. 2 lec. and 4 lab. Prereq., 4 hrs. physiology and Chem. 113 and 117 or 115 and 119. Fee, lab. \$4, breakage \$5.

211. GENERAL BACTERIOLOGY (4) Frey

A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining technic, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec. and 4 lab. Prereq., 4 and Chem. 115. Fee, \$4.

212. PATHOGENIC BACTERIOLOGY (4) Frey

Bacteria in relation to human disease. The culture and identification of disease producing bacteria, protozoa, higher fungi, and filterable viruses. Methods of transmission and means of protection, and disease symptoms and immunity. 2 lec. and 4 lab. Prereq., 211. Fee, \$4.

213. BACTERIOLOGICAL REVIEW (2) Frey

An advanced theoretical course in bacteriology reviewing the entire field. Special reference is made to dissociation, growth curves of bacteria, anaerobiosis, oxidation and reduction, metabolism of bacteria. Prereq., 8 hrs. bacteriology and permission.

214. APPLIED MEDICAL TECHNOLOGY (16) Davidson

Practice in the application of methods in medical technology under hospital conditions. Students perform the duties of technicians while in residence at a hospital laboratory. 8 lab. daily for nine months. Prereq., completion of prescribed curriculum in medical technology and permission.

216. ANIMAL PARASITES (4) Krecker

A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$4.

220. ADVANCED ENTOMOLOGY (Not offered in 1941-1942) (4) Stehr

Intensive study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. 2 lec. and 4 lab. Prereq., 119. Fee, \$4.

225-226. ADVANCED INVERTEBRATE ZOOLOGY (4) Stehr

A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$4.

- 228. ANIMAL ECOLOGY** (4) Stehr
A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal association. 2 lec. and 4 lab. or field work. Prereq., 10 hrs. and permission. Fee, \$4.
- 233. BIOLOGY OF VERTEBRATES** (4) Gier
A study of the vertebrates emphasizing their identification, life histories, habits, distribution, and economic relationships. 2 lec. and 4 lab. or field work. Prereq., 4 and 107. Fee, \$4.
- 234. AQUATIC MANAGEMENT** (3) Roach
A practical course dealing with the manipulation of the natural factors affecting a maximum sustained yield of our aquatic resources. Includes applications of limnology and ichthyology, with emphasis on ecological relationships and habitat preferences of aquatic organisms. 1 lec. and 4 lab. or field work. Prereq., 228 or 233. Fee, \$3.
- 236. GAME MANAGEMENT** (3) Gier, Mitchell
An applied course dealing with the propagation of game animals under natural conditions, with special reference to grouse and other game birds. Practical field experience supplemented by laboratory and classroom work. 1 lec. and 4 lab. or field work. Prereq., 118 and 228 or 233. Fee, \$3.
- 243. BIOLOGICAL STUDIES** (2-10 in any of the following)
Semi-independent studies under the guidance of the instructor. Prereq., 10 hrs. and permission. Fee, \$1 for each credit hour.
- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technique. Frey, Leonard.
 - b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Kreckler, Stehr, Gier, Roach.
 - c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
 - d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity.
 - e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Kreckler, Stehr.
 - f. Parasitology—animal parasites. Kreckler.
 - g. Physiological Zoology—physiological and related experimental studies. Rowles.
 - h. Readings in Biology—readings dealing with biological history, theory, and advances. Kreckler.
 - i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
 - j. Vertebrate Zoology—classification, embryology, gross and microscopic anatomy, economic control of vertebrates. Elliott, Gier.

383. MINOR RESEARCH IN ZOOLOGY (2-8 in any of the subjects) The staff

Problems of a research and semi-research nature in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. Prereq., 15 hrs. and permission. Fee, \$1 for each credit hour.

385. RESEARCH IN BIOLOGY (2-8) The staff

Research work in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. This course fulfills the thesis requirements. Prereq., 20 hrs. and permission. Fee, \$1 for each credit hour.

391. SEMINAR IN ZOOLOGY (1-4) Krecker

A study of special topics and reports on current literature. Prereq., 16 hrs. and permission.

SUMMARY OF ENROLLMENT

June 17, 1940 to March 1, 1941

Geographic Distribution of Campus Enrollment

Ohio Counties

Adams -----	8	Knox -----	27
Allen -----	25	Lake -----	40
Ashland -----	5	Lawrence -----	40
Ashtabula -----	54	Licking -----	55
Athens -----	578	Logan -----	17
Auglaize -----	0	Lorain -----	45
Belmont -----	99	Lucas -----	19
Brown -----	1	Madison -----	12
Butler -----	25	Mahoning -----	136
Carroll -----	2	Marion -----	34
Champaign -----	4	Medina -----	12
Clark -----	11	Meigs -----	90
Clermont -----	3	Mercer -----	5
Clinton -----	9	Miami -----	13
Columbiana -----	44	Monroe -----	44
Coshocton -----	31	Montgomery -----	48
Crawford -----	13	Morgan -----	47
Cuyahoga -----	527	Morrow -----	3
Darke -----	2	Muskingum -----	86
Defiance -----	0	Noble -----	30
Delaware -----	5	Ottawa -----	4
Erie -----	14	Paulding -----	2
Fairfield -----	67	Perry -----	85
Fayette -----	19	Pickaway -----	18
Franklin -----	66	Pike -----	11
Fulton -----	4	Portage -----	5
Gallia -----	39	Preble -----	5
Geauga -----	1	Putnam -----	3
Greene -----	13	Richland -----	60
Guernsey -----	49	Ross -----	73
Hamilton -----	53	Sandusky -----	15
Hancock -----	4	Scioto -----	127
Hardin -----	7	Seneca -----	8
Harrison -----	40	Shelby -----	3
Henry -----	0	Stark -----	94
Highland -----	10	Summit -----	62
Hocking -----	87	Trumbull -----	37
Holmes -----	5	Tuscarawas -----	75
Huron -----	19	Union -----	8
Jackson -----	72	Van Wert -----	6
Jefferson -----	119	Vinton -----	40

SUMMARY OF ENROLLMENT

245

Warren -----	7	Williams -----	2
Washington -----	125	Wood -----	6
Wayne -----	19	Wyandotte -----	3
			<hr/>
			3840

Other States

Arkansas -----	1	Massachusetts -----	25
California -----	1	Michigan -----	26
Colorado -----	1	Missouri -----	3
Connecticut -----	59	New Hampshire -----	7
Delaware -----	1	New Jersey -----	107
District of Columbia -----	5	New York -----	205
Florida -----	4	North Carolina -----	1
Illinois -----	12	North Dakota -----	1
Indiana -----	5	Pennsylvania -----	152
Iowa -----	2	Rhode Island -----	1
Kansas -----	3	South Dakota -----	2
Kentucky -----	3	Vermont -----	2
Maine -----	1	Virginia -----	13
Maryland -----	5	West Virginia -----	126
			<hr/>
			774

U. S. Territories and Foreign Countries

Argentina -----	1
England -----	2
Hawaii -----	1
Panama -----	1
Syria -----	1
	<hr/>
	6

Total Campus Enrollment -----	4620
Portsmouth, Ohio, Center -----	136
Zanesville, Ohio, Center -----	70
	<hr/>
Total Resident Student Enrollment -----	4826

RESIDENT STUDENTS	Summer Sessions 1940 (Duplicates excluded)			First Semester 1940-1941			Second Semester 1940-1941			Total All Sessions (Duplicates excluded)		
	M	W	T	M	W	T	M	W	T	M	W	T
Campus												
Graduates	131	91	222	59	40	99	55	39	94	177	114	291
Seniors	143	288	431	326	200	526	369	231	600	502	495	997
Juniors	78	229	307	379	302	681	387	283	670	449	493	942
Sophomores	27	39	66	541	366	907	486	342	828	543	378	921
Freshmen	12	15	27	724	485	1209	596	424	1020	715	480	1195
Specials—Full-time	68	93	161	5	6	11	4	7	11	66	96	162
Specials—Part-time	7	23	30	13	50	63	14	42	56	26	72	98
Auditors	1	1	2	0	5	5	1	8	9	2	12	14
Totals	467	779	1246	2047	1454	3501	1912	1376	3288	2480	2140	4620
Centers												
Portsmouth, Ohio	36	99	135	36	99	135	22	74	96	38	98	136
Zanesville, Ohio	17	44	61	17	44	61	19	36	55	25	45	70
Totals	53	143	196	53	143	196	41	110	151	63	143	206
Grand Totals	467	779	1246	2100	1597	3697	1953	1486	3439	2543	2283	4826
NONRESIDENT STUDENTS												
Extension Classes—March 1, 1940 to March 1, 1941												
Correspondence Study—March 1, 1940 to March 1, 1941												
											246	
											594	

INDEX

Absence from Classes.....	53	Bachelor of Fine Arts in Music ---	101
Accounting	130	Bachelor of Fine Arts in Painting and Allied Arts	101
Administrative Assistants	8	Bachelor of Science	68
Administrative Officers	6	Bachelor of Science in Agriculture..	93
Admission	37	Bachelor of Science in Architectural Engineering	94
Aeronautics	92	Bachelor of Science in Civil Engi- neering	95
Auditors	38	Bachelor of Science in Commerce..	86
Correspondence Study	110	Bachelor of Science in Education..	74
Degree College	65	Bachelor of Science in Electrical Engineering	96
Extension Division	110	Bachelor of Science in Home Eco- nomics	97
Freshman Class	37	Bachelor of Science in Industrial Engineering	87, 96
Graduate College	104	Bachelor of Science in Journalism..	88
Special Students	37	Bachelor of Science in Secretarial Studies	87
Transfer Students	37	Bachelor's Degree, Second	58
Advanced Standing Examinations ..	54	Master of Arts	102
Advertising	132	Master of Education	102
Advising and Registration	50	Master of Fine Arts	102
Agriculture	114	Master of Science	102
Alumni Office	26	Departmental Societies	31
Application		Deposits and Fees	43
Fellowships and Assistantships ..	105	Design	204
Graduation	56	Dietetics	182
Scholarships	47	Diploma in Education	82
Student Teaching	84	Division of Military Science	108
Teaching Certificates	59	Division of Physical Welfare	106
Applied Music	197	Dormitories	38, 40
Archaeology and Antiquities	116	Dramatic and Forensic Organizations..	28
Architecture	102	Dramatic Art	142
Art	204	Dramatic Production	142
Assistantships and Fellowships ..	105	Drawing	123, 208
Astronomy	193	Economics	134
Awards and Prizes	33	Education	147
Band, University	29	Elective Study	65
Biological Services, Preparation for..	72	Electrical Engineering	161
Board and Room	38	Elementary Education	80, 147
Botany	117	Employment Opportunities	47
Breakage Fees	45	Engineering Curricula	93
Buildings and Grounds	22	English	165
Bureau of Appointments	25	Enrollment	244
Business Administration	85	Entrance Requirements	37, 64
Business Law	133	Examinations	3, 37, 54
Calendar	3	Expense Estimate	46
Campus Affairs Committee	27	Extension Division	109
Change of Address	52	Faculty	10, 113
Change of College	52	Family Relationships	181
Change Orders	51	Fees and Deposits	43, 113
Chemistry	119	Fellowships and Assistantships ..	105
Child Development	181	Final Examinations	54
Choir, University	29	Finance	136
Civil Aeronautics	122	Foods and Nutrition	182
Civil Engineering	123	Forensic Organizations	28
Civil Pilot Training Program	92	Fraternities	32, 40
Classical Languages	126	French	226
Clothing and Textiles	181	General Information	21
Coaching	117	Geography	170
College Ability Test	38	Geology	172
College of Applied Science	91	German	173
College of Arts and Sciences	66	Glee Clubs	29
College of Commerce	85	Government	174
College of Education	73	Grade Reports	54
College of Fine Arts	100	Grading System	52
College Problems	210	Graduate College	102
Commencements	58	Graduation in Absentia	57
Commerce	130	Graduation Requirements	56
Committees of the Faculty	9	Greek	126
Cooperative Houses	39	Health Service	19, 42
Correspondence Study	110	History	176
Course Number Explanation	113	History of Education	148
Courses of Instruction	113		
Credit	52		
Dance Concert	105		
Debate	28		
Degrees			
Bachelor of Arts	67		
Bachelor of Fine Arts in Dramatic Art	102		

History of Painting	207	Professional Societies	31
History of the University	21	Psychology	223
History and Theory of Music	197	Public Relations Office	26
Home Economics	181, 183	Public Speaking	145
Honor Societies	30	Publications	29
Honorary Organizations	30	Quartet, Varsity Male	29
Honors and Honors Day	55, 58	Radio	162, 191
Hospital Service	42	Recreation Program	29
House and Its Equipment	185	Refund of Fees	45
Independent Association	32	Registration	50, 65
Industrial Arts	185	Registration Fees	43, 51
Industrial Engineering	87, 96	Regulations	52
Interfraternity Council	32	Religious Organizations	30
Intermediate Grade Education	81	Religious Societies	32
Interpretation Contests	28	Representation in Painting	208
Intramural Program	29	Research in Education	150
Italian	229	Reserve Officers' Training Corps	108, 196
Journalism	189	Residence Requirement	57
Kindergarten-Primary Education	81, 149	Resident Students	43
Laboratory Fees	45	Retaining Fee	39, 41
Laboratory School Supervision	150	Romance Languages	226
Late Registration	51	Room and Board	38
Latin	127	Scholarships	47
Law, Preparation for	72	Scholastic Average for Graduation	56
Leadership Societies	31	Scholastic and Social Organizations	30
Legal Residence of Minors	43	School Administration and Supervision	151
Library	19, 25	School Music	202
Loan Funds	48	School of Dramatic Art	100
Location of the University	22	School of Home Economics	97
Management	138	School of Journalism	88
Map of Campus	20	School of Music	100
Marketing	138	School of Painting and Allied Arts	100
Marriage	210, 235	Scientific Techniques in Education	150
Mathematics	193	Secondary Education	153
Medical Technology Curriculum	71	Secretarial Medical Technology	72
Medicine, Preparation for	69	Secretarial Studies	139
Men's Union	27	Service Offices	25
Military Band	196	Sessions	22
Military Science and Tactics	196	Social Work	72
Miscellaneous Fees	44	Sociology	233
Museum	25	Sororities	32, 42
Music	197	Spanish	231
Music Activities	201	Special Education	154
Music Fees	44	Special Interest Societies	31
Music Organizations	29	Speech	145
Nonresident Students	43	Speech Clinic	102
Nursing Curriculum	70	Statistics	141
Observation and Participation	83, 154	Student Aid	47
Oratory Contests	28	Student Center	28
Orchestra, University	29	Student Government Associations	27, 32
Organization of the University	63	Student Organizations	27
Painting and Allied Arts	204	Student Teaching	83, 84, 154
Panhellenic Council	32	Summer Sessions	111
Personal Relations	210	Teacher Training	73, 88, 92, 101
Philology, Romance	230	Teaching Certificates	59, 74
Philosophy	211	Teaching Techniques	154
Photography	208	Theses and Examination	104
Physical Welfare	213	Time Limit for Graduation	58
Physical Welfare Requirement	56	Training Schools	18, 88
Physics	290	Transcripts	55
Placement Bureau	25	Transfer Students	37
Playshop, Fortnightly	28	Trustees	5
Portsmouth Center	111	University College	64
Portuguese	230	University Theatre	28
Practice Teaching	83, 84, 154	Vaccination	43
Pre-Dental Curriculum	69	Varsity Sports	29
Pre-Law Requirements	72	Withdrawal	52
Pre-Medical Curriculum	69	Women's League	27
Pre-Professional Curricula	69	Young Women's Christian Association	30
Prep Follies	28	Zanesville Center	111
Prizes and Awards	33	Zoology	238
Probation	55		

