



Ohio University Bulletin



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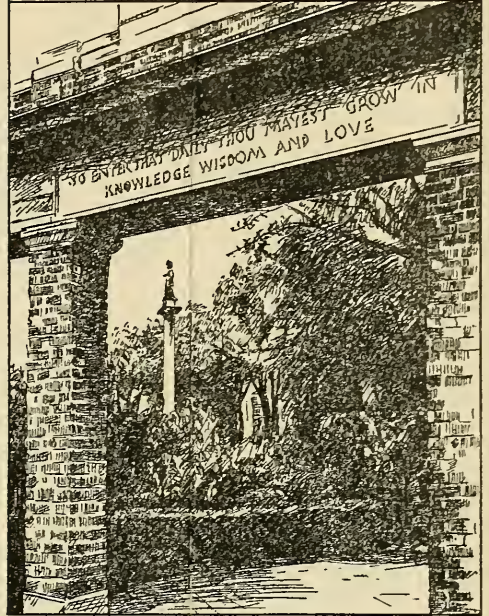
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MYRON G. SEYERLE, '55

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PHOTOGRAPHY STUDENTS

Ohio University



OLDEST INSTITUTION OF HIGHER LEARNING
IN THE NORTHWEST TERRITORY

1804

• THE SESQUICENTENNIAL •

1954

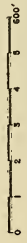
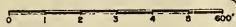
One Hundred Fifty Years of Distinguished
Educational Service to the State and Nation

*See inside of map folder for identification
of pictures in Bulletin*

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TO SINGLESVILLE
W. UNION ST.
TO LAKE HOPE
B.S.O. R.R.
PASS. STA.

RIVERSIDE
CITY POOL

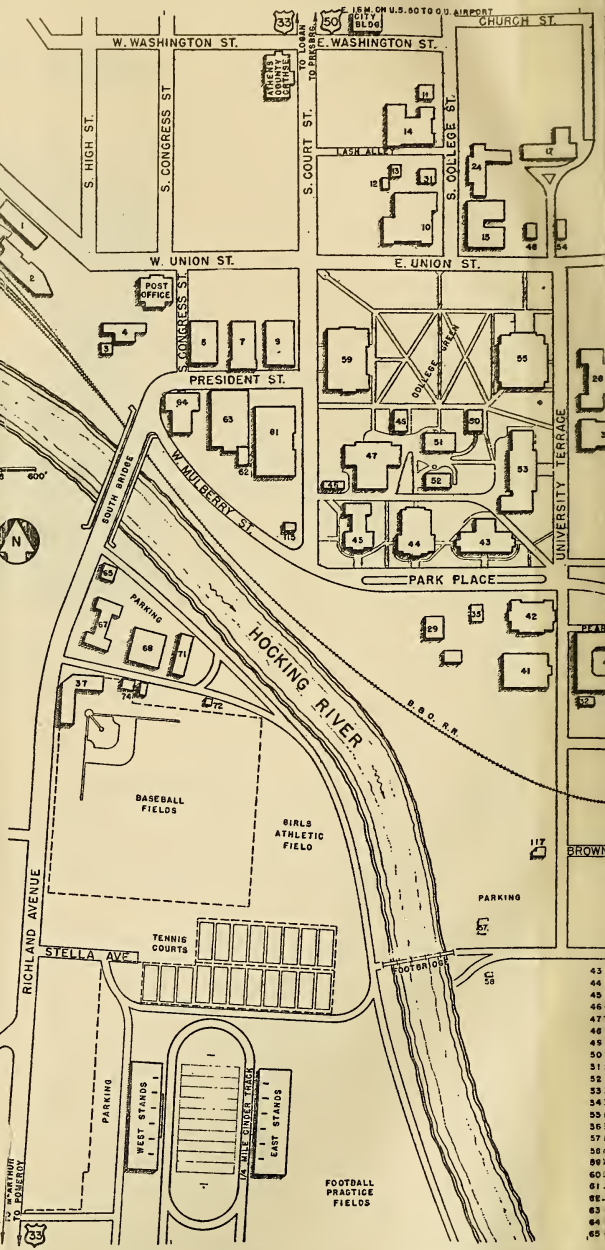
THE CAMPUS OF
OHIO UNIVERSITY
ATHENS, OHIO



- 1 SERVICE BUILDING
- 2 HEATING PLANT
- 3 LAUNDRY
- 4 ENGINEERING BUILDING
- 5 SCIENCE HALL
- 6 STEWART ST. (WHALEY)
- 7 CHEMISTRY BUILDING
- 8 STEWART ST. (MUNN)
- 9 COMMERCE BUILDING
- 10 STUDENT CENTER
- 11 S. COLLEGE (MOORE APTS)
- 12 STORAGE
- 13 GARAGE
- 14 SPEECH BUILDING
- 15 HOWARD HALL
- 16
- 17 HEALTH CENTER
- 18 PUTNAM APARTMENTS
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- 20 EAST GREEN DOMES
- 21 EDGEHILL APARTMENTS
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- 26 N. MCKINLEY AVE (SMITH)
- 27 EAST GREEN CAFETERIA
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- 29 PARK PLACE (PRES. HOME)
- 30 AGRICULTURAL BLDG.
- 31 S. COLLEGE (O'GLENESS)
- 32 BUTER, (KAHLER)
- 33 WELCH COTTAGE
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- 35 PARK PLACE (BIDDLE)
- 36 GREENHOUSE
- 37 GRANDSTAND
- 38 STEELCRAFT NO. 1
- 39 STEELCRAFT NO. 2
- 40 SCOTT QUADRANGLE
- 41 NATATORJUM (SPCTR. CAP. 850)
- 42 MUSIC HALL

ATHENS
STATE
HOSPITAL

S.W. 7/4 ON U.S.
50 TO O.J. 393 A.
EXPRINTL. FARM
(HEBARDSVILLE)



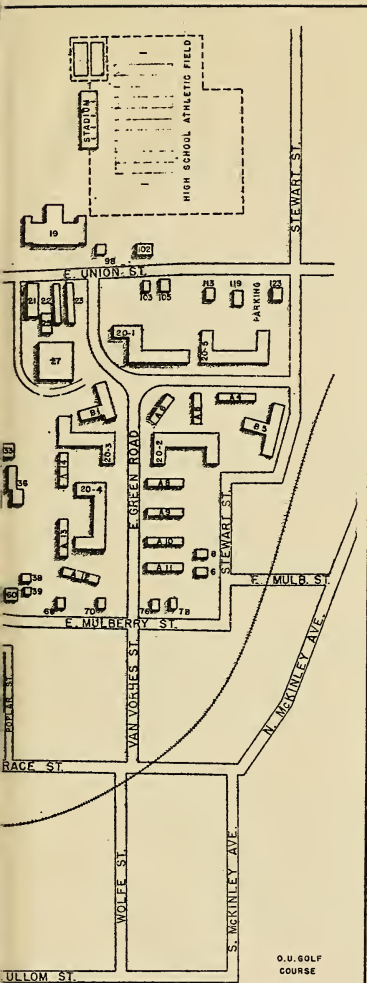
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To The

Prospective Student

The State of Ohio early recognized that development of intelligent and well-educated citizens is an investment that pays dividends in the advancement of the state as a whole. Ohio University, established in 1804, was the first university founded by the people of Ohio and the first institution of higher learning founded in the Northwest Territory.

Yet Ohio University is more than just a historic shrine. It is a highly accredited, coeducational university whose facilities and equipment are being continually improved to provide Ohio youth with the means for an ever-better education. The University is recognized by outstanding accrediting associations, has seven Colleges, five Schools, and three major Divisions offering more than 1400 courses.

Because Ohio University is a state-supported university, you will find the cost of attendance surprisingly low in comparison with that of most institutions of as high standard.

Young men have the opportunity for specialized military training in Infantry, Quartermaster, and Air Force Administration or Communications. A young man completing the university and the Reserve Officer's Training Corps requirements may—when he graduates—be offered a commission as second lieutenant in the U.S. Army Officers' Reserve Corps or the U.S. Air Force Reserve.

Many, many other opportunities await you. Intramural sports and other recreational activities are open to all students—and Ohio University varsity teams rank high in the Mid-American Conference athletic program. You can develop your personality and become a leader by taking part in some of the 156 campus organizations of every type. You find many cultural opportunities in such attractions as the Community Concerts, plays by the University Theater, major musical productions, various instrumental and choral groups, and many other satisfying programs.

Perhaps most of all, Ohio University is human. Of course you want to get an education, but it is human to want to enjoy getting it. Ohio University with its more than 4500 on-campus students is not too large and not too small. You will find Ohio University—well known for friendliness of students and faculty—your answer to further education.

CHAPTER XXVII.

An Act, establishing an University
in the town of Athens.

WHEREAS institutions for the liberal education of youth, are essential to the progress of arts and sciences, important to morality, virtue and religion, friendly to the peace, order and prosperity of society, and honorable to the government that encourages and patronises them : Therefore,

Preamble.

Sec. 1. *BE it enacted by the general assembly of the state of Ohio,* That there shall be an university instituted and established in the town of Athens, in the ninth township of the fourteenth range of townships, within the limits of the tract of land purchased by the Ohio Company of Associates, by the name and style of the "Ohio University," for the instruction of youth in all the various branches of liberal arts and sciences, for the promotion of good education, virtue, religion and morality, and for conferring all the degrees and literary honors granted in similar institutions.

University established.

Name & style

Sec. 2. *And be it further enacted,* That there shall be and forever remain in the said university, a body politic and corporate, by

Body politic & corporate established.



O H I O
UNIVERSITY BULLETIN



For The Biennium

1954 • 1956

ATHENS, OHIO

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O H I O U N I V E R S I T Y B U L L E T I N

Vol. LI

FEBRUARY, 1954

Number 2

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THE UNIVERSITY CALENDAR FOR 1954-1955

THE 1954 SUMMER SESSION

Announcements will be made in the Summer Session Bulletin

FIRST SEMESTER 1954-1955

1954

Sept.	20	Mon.	Semester opens; opening of Freshman Week Dates for counseling and advising will be announced in the Freshman Week Program and Schedule of Classes	
Sept.	25	Sat.	Registration	
Sept.	27	Mon.	Classes begin	
Oct.	4	Mon.	Last day for registering for the semester Last day for graduate student to be admitted to candidacy	
Oct.	9	Sat.	Last day for adding course by change order	
Oct.	11	Mon.	Last day for filing application for graduation on February 5	
Oct.	21	Thur.	English proficiency test in evening	
Oct.	23	Sat.	Homecoming, classes adjourned	
Oct.	25	Mon.		
		to		
Nov.	20	Sat.	Speech proficiency tests	
Oct.	30	Sat.	Last day for removing incomplete grades incurred during last session in residence Last day for partial refund of fees to students who withdraw	
Nov.	5	Fri.	University College seven-weeks' grades due in Registrar's office by noon	
Nov.	9	Tues.		
		to		
Nov.	13	Sat.	Counseling period for University College students	
Nov.	13	Sat.	Last day to withdraw from a course	
Nov.	24	Wed.	Thanksgiving recess begins at 12:00 noon	
Nov.	29	Mon.	Classes resume at 12:00 noon	
Dec.	4	Sat.	Graduate nonthesis background examination for Education majors	
4, 6, 7 - Degree student in 2nd semester	Dec.	10	Fri.	University College twelve-weeks' grades due in Registrar's office by noon
	Dec.	13	Mon.	
		to		
	Dec.	16	Thur.	Counseling period for University College students
	Dec.	16	Thur.	Christmas recess begins after last class

1955

Jan.	3	Mon.	Classes resume at 12:00 noon Last day for graduate student to present thesis in form for final typing to Thesis Director for approval
Jan.	5	Wed.	Last day for candidate writing thesis to take comprehensive examination on major course work
Jan.	8	Sat.	Last day for candidates not majoring in Education to take nonthesis background examination, unless otherwise indicated by major department
Jan.	15	Sat.	Last day for candidate under nonthesis plan to submit scholarly paper, unless an earlier date is set by major department
Jan.	25	Tues.	Classes end
Jan.	26	Wed.	
		and	
Jan.	27	Thur.	Reading and review period
Jan.	28	Fri.	Examinations begin
Jan.	29	Sat.	Last day for candidates to take oral examination on thesis. Student leaves finished, unbound copies of thesis in Graduate College office one week prior to examination
Jan.	31	Mon.	Thesis due in library and abstracts due in Graduate College office
Feb.	2	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Feb.	3	Thur.	Examinations end
Feb.	5	Sat.	Semester closes

SECOND SEMESTER 1954-1955

Feb.	7	Mon.	Semester opens; counseling and advising in morning; sectioning in afternoon
Feb.	8	Tues.	Sectioning continued
Feb.	9	Wed.	Registration
Feb.	10	Thur.	Registration Classes begin
Feb.	21	Mon.	Last day for registering for the semester Last day for graduate student to be admitted to candidacy
Feb.	26	Sat.	Last day for adding course by change order
Feb.	28	Mon.	Last day for filing application for graduation on June 12
Mar.	14	Mon.	
		to	
Apr.	6	Wed.	Speech proficiency tests

Mar.	17	Thur.	English proficiency test in evening
Mar.	19	Sat.	Last day for removing incomplete grades incurred during last session in residence
			Last day for partial refund of fees for students who withdraw
Mar.	25	Fri.	University College seven-weeks' grades due in Registrar's office by noon
Mar.	29	Tues.	
		to	
Apr.	2	Sat.	Counseling period for University College students
Apr.	2	Sat.	Last day to withdraw from a course
Apr.	6	Wed.	Spring recess begins at 12:00 noon
Apr.	13	Wed.	Classes resume at 12:00 noon
Apr.	23	Sat.	Nonthesis background examination given to Education majors
May	6	Fri.	University College thirteen-weeks' grades due in Registrar's office by noon
May	9	Mon.	Last day to present thesis in form for final typing to Thesis Director for approval
May	10	Tues.	
		to	
May	14	Sat.	Counseling period for University College students
May	12	Thur.	Last day for candidate writing thesis to take comprehensive examination on major course work
May	16	Mon.	Last day for candidates not majoring in Education to take nonthesis background examination, unless otherwise indicated by major department
May	23	Mon.	Last day for candidates under nonthesis plan to submit scholarly paper, unless an earlier date is set by major department
May	30	Mon.	Memorial Day holiday
June	3	Fri.	Reading and review day
June	4	Sat.	Examinations begin
			Last day for candidates to take oral examination on thesis
			Student leaves finished, unbound copies of thesis in Graduate College office one week prior to examination
June	6	Mon.	Theses due in Library and abstracts due in Graduate College office
June	8	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June	10	Fri.	Final Examinations end
June	12	Sun.	Baccalaureate Service
June	13	Mon.	Commencement

THE UNIVERSITY CALENDAR FOR 1955-1956

THE 1955 SUMMER SESSION

Announcements will be made in the Summer Session Bulletin

FIRST SEMESTER 1955-1956

1955

Sept.	19	Mon.	Semester opens; opening of Freshman Week Dates for counseling and advising will be announced in the Freshman Week Program and Schedule of Classes
Sept.	24	Sat.	Registration
Sept.	26	Mon.	Classes begin
Oct.	3	Mon.	Last day for registering for the semester Last day for graduate student to be admitted to candidacy
Oct.	8	Sat.	Last day for adding course by change order
Oct.	10	Mon.	Last day for filing application for graduation on February 4
Oct.	20	Thur.	English proficiency test in evening
Oct.	24	Mon.	
		to	
Nov.	19	Sat.	Speech proficiency tests
Oct.	29	Sat.	Last day for removing incomplete grades incurred during last session in residence Last day for partial refund of fees to students who withdraw
Nov.	4	Fri.	University College seven-weeks' grades due in Registrar's office by noon
Nov.	8	Tues.	
		to	
Nov.	12	Sat.	Counseling period for University College students
Nov.	12	Sat.	Last day to withdraw from a course
Nov.	23	Wed.	Thanksgiving recess begins at 12:00 noon
Nov.	28	Mon.	Classes resume at 12:00 noon
Dec.	3	Sat.	Graduate nonthesis background examination for Education majors
Dec.	9	Fri.	University College twelve-weeks' grades due in Registrar's office by noon
Dec.	12	Mon.	
		to	
Dec.	16	Fri.	Counseling period for University College students
Dec.	16	Fri.	Christmas recess begins after last class

1956

Jan.	3	Tues.	Classes resume at 12:00 noon Last day for graduate student to present thesis in form for final typing to Thesis Director for approval
Jan.	5	Thur.	Last day for candidate writing thesis to take comprehensive examination on major course work
Jan.	7	Sat.	Last day for candidates not majoring in Education to take nonthesis background examination, unless otherwise indicated by major department
Jan.	14	Sat.	Last day for candidates under nonthesis plan to submit scholarly paper, unless earlier date is set by major department
Jan.	24	Tues.	Classes end
Jan.	25	Wed.	
		and	
Jan.	26	Thur.	Reading and review period
Jan.	27	Fri.	Examinations begin
Jan.	28	Sat.	Last day for candidates to take oral examination on thesis. Student leaves finished, unbound copies of thesis in Graduate College office one week prior to examination
Jan.	30	Mon.	Theses due in library and abstracts due in Graduate College office
Feb.	1	Wed.	Candidates' grades due in Registrar's office at 4:00 p.m.
Feb.	2	Thur.	Examinations end
Feb.	4	Sat.	Semester closes

SECOND SEMESTER 1955-1956

Feb.	6	Mon.	Semester opens; counseling and advising in morning; sectioning in afternoon
Feb.	7	Tues.	Sectioning continued
Feb.	8	Wed.	Registration
Feb.	9	Thur.	Classes begin
Feb.	20	Mon.	Last day for registering for the semester Last day for graduate student to be admitted to candidacy
Feb.	25	Sat.	Last day for adding course by change order
Feb.	27	Mon.	Last day for filing application for graduation on June 10
Mar.	12	Mon.	
		to	
Apr.	7	Sat.	Speech proficiency tests
Mar.	15	Thur.	English proficiency test in evening

Mar.	17	Sat.	Last day for removing incomplete grades incurred during last session in residence Last day for partial refund of fees for students who withdraw
Mar.	23	Fri.	University College seven-weeks' grades due in Registrar's office by noon
Mar.	26	Mon.	
		to	
Mar.	28	Wed.	Counseling period for University College students
Mar.	28	Wed.	Spring recess begins at 12:00 noon Last day to withdraw from a course
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May	7	Mon.	Last day to present thesis in form for final typing to Thesis Director for approval
May	8	Tues.	
		to	
May	12	Sat.	Counseling period for University College students
May	10	Thur.	Last day for candidate writing thesis to take comprehensive examination on major course work
May	14	Mon.	Last day for candidates not majoring in Education to take nonthesis background examination, unless otherwise indicated by major department
May	21	Mon.	Last day for candidates under nonthesis plan to submit scholarly paper, unless an earlier date is set by major department
May	30	Wed.	Memorial Day holiday
June	1	Fri.	Reading and review day
June	2	Sat.	Examinations begin Last day for candidates to take oral examination on thesis. Student leaves finished, unbound copies of thesis in Graduate College office one week prior to examination
June	4	Mon.	Theses due in library and abstracts due in Graduate College office
June	6	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June	8	Fri.	Examinations end
June	10	Sun.	Commencement

GENERAL INFORMATION

Historical Background

The University Today

Buildings and Grounds

Housing and Food Service

Other University Services

Student Health Service

Counseling

Clinics

Veterans Affairs

Students from Abroad

Bureau of Appointments

Student Financial Aids

Scholarships

Loan Funds

Student Employment

Prizes and Awards

Cultural and Recreational Opportunities

Student Activities and Organizations

Student Government

Publications

Dramatics

Music

Religious

Scholastic and Social

OHIO UNIVERSITY

HISTORICAL BACKGROUND

With a background rich in historical significance, Ohio University is this year—1954—celebrating the Sesquicentennial Anniversary of its founding. This span of years is only one year less than that of the life of the great state that established and now supports it.

First conceived of and planned for in 1786 by officers and men who had served in the Revolutionary War, the University came into being with the passage by the Legislature of the State of Ohio, February 18, 1804, of an act establishing "an University . . . in the town of Athens . . . by the name and style of the Ohio University." Edward Tiffin, first governor of Ohio, rode horseback from Chillicothe to Athens over wilderness trails to preside over the first meeting of the first board of trustees of the new University.

Ohio University thus became the first institution of higher learning in the Northwest Territory, an area from which was ultimately carved five great states—Ohio, Indiana, Illinois, Michigan, and Wisconsin.

The Ordinance of 1787, a document which many historians rank in importance with the Declaration of Independence and the Constitution of the United States, was developed by the Continental Congress as a measure for the government of the Northwest Territory.

Although much of the authorship of the Ordinance is credited to Thomas Jefferson, it is well known that Dr. Manasseh Cutler, of Ipswich, Massachusetts, who is regarded as one of the two founders of Ohio University and who represented the Ohio Company of Associates in its land negotiations with the Continental Congress, insisted that the ordinance be so drawn as to guarantee freedom of speech, thought, and religious opinions, as well as to exclude slavery from the territory and to commit the governments of the new states to the support of schools. They are Cutler's words that declare: "Religion, morality, and knowledge being necessary to good government and the happiness of mankind, schools, and the means of education shall forever be encouraged."

In the land purchase contract negotiated by the Ohio Company with Congress just two weeks after passage of the Ordinance of 1787, Congress reserved two complete townships of land "for the purposes of an University" to be located in the center of the purchase.

Late in 1799, after almost ten years of delay occasioned by the Indian Wars, General Rufus Putnam, of Rutland, Massachusetts, laid out the town of Athens and the campus for the University. General Putnam is regarded as a co-founder, with Cutler, of Ohio University. Each has a building on the university campus named in his honor.

In preparing the charter of Ohio University, Doctor Cutler, a graduate of Yale University and a man of many talents—lawyer, minister, scientist, scholar—consulted the charters of many universities in Europe and America, including those of Harvard and Yale. In the

preamble to the charter he expressed the belief that "institutions for the liberal education of youth [are] essential to the progress of Arts and Sciences, important to morals and religion, friendly to the peace, order, and prosperity of Society, and honorable to the Government which patronizes them."

THE UNIVERSITY TODAY

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, 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 noted 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 is composed of the following colleges and other major units:

- The University College
- The College of Applied Science
 - The School of Home Economics
- The College of Arts and Sciences
- The College of Commerce
 - The School of Journalism
- The College of Education
- The College of Fine Arts
 - The School of Dramatic Art and Speech
 - The School of Music
 - The School of Painting and Allied Arts
- The Graduate College
- The Division of Physical Education and Athletics
- The Reserve Officers' Training Corps
- The University Extension Division
- The Summer Session
- The Branches

Students are currently enrolled from every county in Ohio, from 29 states, two territories, and the District of Columbia, and from 26 foreign countries.

The University is regarded by many as being of ideal size; not so large that one finds it difficult to establish close social and classroom contacts, nor yet so small that one is deprived of opportunities for a well-rounded program of extracurricular activities.

CLASSIFICATION AND LOCATION

Ohio University is a coeducational, state-supported university. The city of Athens, seat of the University, is located in scenic Southeastern Ohio and has a population of 11,660. The city exists chiefly because of the University and for its welfare. The relations between its citizens and the members of the university community are, therefore, markedly cordial.

Free from the distractions of a metropolitan center, Athens offers many advantages to the person who desires to pursue university work in an atmosphere of culture and relative quiet.

Athens is conveniently accessible by automobile on U. S. Routes 33 and 50 and State Route 56. The city is on the main New York-St. Louis route of the Baltimore and Ohio Railroad. North and south bus service is provided by the Lake Shore System; east and west service, by the Capital Greyhound Lines.

THE SESSIONS

The sessions of the University consist, annually, of two eighteen-week semesters and a summer session. For a more detailed reference to the summer session, see page 179.

DEGREES GRANTED

Ohio University offers both undergraduate and graduate courses of study.

The following degrees are granted upon the satisfactory completion of four-year study programs (less time under an accelerated program): Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Chemistry, Bachelor of Science in Civil Engineering, Bachelor of Science in Commerce, Bachelor of Science in Education, Bachelor of Science in Electrical Engineering, Bachelor of Science in Home Economics, Bachelor of Science in Journalism, Bachelor of Science in Mechanical Engineering, and Bachelor of Science in Secretarial Studies.

The Master of Arts, Master of Education, Master of Fine Arts, or Master of Science degree is granted upon completion of a Graduate College program covering a period of, normally, one year (two semesters) or four summer sessions.

ACCREDITATION

Ohio University and its divisions belong to, or are approved by, the following educational and professional associations:

The Association of American Universities
 The North Central Association of Colleges and Secondary Schools
 The Association of American Colleges
 The Ohio College Association
 The Ohio State Department of Education
 The American Association of University Women.
 The National Association of Schools of Social Administration
 The American Chemical Society
 The American Psychological Association
 The American Council for Education in Journalism
 The National Association of Schools of Music
 The American Association of Colleges for Teacher Education
 The American Association of Collegiate Schools of Business
 Board of Registry, American Society of Clinical Pathologists
 Engineers' Council for Professional Development

BUILDINGS AND GROUNDS

Ohio University's physical plant, consisting of 39 principal buildings, 41 auxiliary buildings, and 290 acres of land, is valued at more than \$22,500,000. This does not include the Ohio University Airport of 96 acres or the University Farm of 393 acres.

ON THE GREEN

The Campus or "College Green" was laid out from time to time between 1799 and 1804 in compliance with the terms of a Resolution of the General Assembly of the Territory of Ohio passed in 1799. It now differs materially from its original plan, changes and enlargements having been made at various times between 1813 and 1844, and in comparatively recent years.

The Green now comprises a relatively small part of the land holdings of the University, and a majority of the university buildings are to be found off The Green, although near it.

On The Green, the present boundaries of which were fixed in 1844, are located 11 buildings and two memorial gateways.

MANASSEH CUTLER HALL (51*), the oldest building in the Northwest Territory erected for the purposes of higher education, was known in its early days as "The College Edifice" and later as the Center Building. It was given its present name for one of the founders of the University. Its construction was begun in 1816 and completed in 1818. Cutler Hall and the nearby "Wings," of similar style, comprise an interesting unit of early American architecture.

*See map and key in front of catalog.

WILSON HALL (50) was erected in 1837 and for more than a century was known as East Wing.

MCGUFFEY HALL (49), originally known as West Wing, was erected in 1839. It is identical with Wilson Hall in the unit of three old buildings.

Other buildings on The Green are—the EDWIN WATTS CHUBB LIBRARY (59), the ALUMNI MEMORIAL AUDITORIUM (55), EWING HALL (47), HALL OF FINE ARTS (52), ELLIS HALL (53), CARNEGIE HALL (45), the WOMEN'S GYMNASIUM (44), and BOYD HALL (43).

Most of the other university buildings are located on streets adjacent to or leading from The Green.

OFF THE GREEN

ON EAST UNION STREET, north boundary of The Green, are the UNIVERSITY CENTER (10), HOWARD HALL (15), the UNIVERSITY GUEST HOUSE (48), the HOME ECONOMICS MANAGEMENT HOUSE (54), and the UNIVERSITY ELEMENTARY SCHOOL (19).

THE STUDENT HEALTH CENTER (17) is located at the rear of the University Guest House and the Home Economics Management House on East Union Street. For a more detailed reference to the Health Center and its services, see page 18.

ON UNIVERSITY TERRACE, immediately east of The Green, is BRYAN HALL (28) and the AGRICULTURE AND HOUSEHOLD ARTS BUILDING (30). WELCH COTTAGE (33) and the UNIVERSITY GREENHOUSE (36) are at the rear of the "Ag" Building.

Also on University Terrace, southeast of The Green, is SCOTT QUADRANGLE (40) and the NATATORIUM (41). Not far away are KAHLER COTTAGE (32), MATTHEWS COTTAGE (60), and DANA COTTAGE (117).

Scott Quadrangle is composed of eight units—ATKINSON, BENTLEY, COPELAND, DANA, DUNKLE, EVANS, GORDY, and HOOVER halls.

ON PARK PLACE, south boundary of The Green, is MUSIC HALL (42), BIDDLE HOUSE (35), and the PRESIDENT'S HOME (29).

ON COLLEGE STREET, a street running north and south from The Green, will be found the SPEECH BUILDING (14), COLLEGE STREET COTTAGE (31) and VOIGT HALL (24).

ON SOUTH COURT STREET, west boundary of The Green, are LINDLEY HALL (61) and the COMMERCE BUILDING (9).

ON PRESIDENT STREET, west of The Green, are to be found the MEN'S GYMNASIUM (63), SUPER HALL (64), SCIENCE HALL (5), the ENGINEERING BUILDING (4), the CHEMISTRY BUILDING (7) and the UNIVERSITY LAUNDRY (3).

Located on top of the Engineering Building is the nine-inch refractor telescope of the Department of Astronomy, one of the finest instruments in the country available to undergraduates.

ON RICHLAND AVENUE, across the South Bridge, are the ENGINEERING ANNEX BUILDING (67), the ANIMAL HOUSE (65), the INTERNAL COMBUSTION ENGINE LABORATORY AND WAREHOUSE (68), and the UNIVERSITY GARAGE (71).

The UNIVERSITY SERVICE BUILDING (1) and the HEATING PLANT (2) are located on West Union Street.

EAST GREEN

ON THE EAST GREEN, an area immediately east of the main campus (see map), are three new residence halls for men—JOHNSON HALL (20-1), BUSH HALL (20-2), and BIDDLE HALL (20-3)—and the EAST GREEN CAFETERIA (27). Two other residence halls, under construction but unnamed at the time of publication of this catalog, are buildings appearing on the map as 20-4 and 20-5. In this area there are also a number of temporary dormitories for men which will be replaced by permanent-type structures in the long-range building program of the University.

ATHLETIC FIELDS

The Athletic Fields, comprising 200 acres, are located across the Hocking River on the east side of Richland Avenue. There is an excellent baseball field (37); Ohio Stadium, seating 14,000 persons, with a football gridiron and running track; intramural fields; tennis courts (49) and practice fields. Additional recreational areas total 206 acres.

UNIVERSITY GOLF COURSE

A nine-hole golf course, currently under construction, will be ready for use in the spring of 1954. The course is located on the east side of the Hocking River across from Ohio Stadium and the other athletic fields. The two areas are connected by an iron footbridge.

UNIVERSITY AIRPORT

The Ohio University Airport of 96 acres is located approximately two miles from the campus on U.S. Route 50, east of Athens. The field has a runway 4,000 feet in length, four hangars, and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilots' ready room. The field is equipped with temporary runway lights for night flying.

UNIVERSITY FARM

The University Farm of 393 acres is located on U.S. Route 50, nine miles southwest of Athens. Laboratory work and demonstrations are carried on with crops (primarily grain and feed) and with livestock (dairy and beef cattle, hogs, and poultry). On the farm are two homes, four barns, poultry houses, and numerous small buildings.

HOUSING AND FOOD SERVICE

LIVING ACCOMMODATIONS. Ohio University offers an attractive residence hall system for the health and well-being of its students. All of the men's and women's facilities are adjacent to the campus, easily and conveniently accessible to other university buildings and to the business section of the city of Athens. Each residence hall has its own dining hall, with the exception of Voigt Hall and the dormitories on the East Green which are served by central dining halls. Management of the dining halls is under competent dietitians, who serve as members of the staff of the Director of Residence Services. Each residence hall is under the supervision of a resident manager or resident head. In addition, a number of graduate assistants and upperclass student counselors are assigned to the halls to aid in the over-all counseling program.

APPLICATIONS. Applications for rooms in either the women's residence halls or men's dormitories should be made to the Director of Student Housing, Ohio University, Athens, Ohio. An application is considered only if accompanied by a \$5 retaining fee made payable to OHIO UNIVERSITY. (*Applicants for mid-year entrance or the summer term remit \$2.50.*) The retaining fee is applied to the social fund of the residence halls and is not refundable. ALL FRESHMAN STUDENTS, EXCEPT THOSE TWENTY-ONE YEARS OF AGE AND OVER, MUST LIVE IN UNIVERSITY HOUSING DURING THEIR FIRST YEAR UNLESS EXCUSED BY THE DEAN OF MEN OR DEAN OF WOMEN. Exceptions are made for commuters and residents of Athens.

BOARD. The cost of board in university halls is \$189 a semester. Board rates are subject to revision, upward or downward, in accordance with prevailing economic conditions. Residents in all university housing accommodations are required to eat in university dining halls. Exemptions from this requirement are granted to students who receive all meals in exchange for work. Requests for exemptions are considered by the Director of Student Housing.

Students living in private homes may arrange to eat in a university dining hall, but must continue with such arrangements until the end of the semester, unless special permission to withdraw is granted by the Director of Student Housing.

ROOMS. In the residence halls for men or women, two or more students are assigned to each of the rooms. Semester room rates in the permanent dormitories range from \$76.50 to \$100 per student. There are eight barrack-type residence units, containing double rooms for men, in which the rent is \$58.50 per student. All room rates include telephone, mail, and linen services. Rooms are furnished with dresser, study tables, chairs, beds, and *bed linen which is laundered by the University*. Items such as blanket(s), bed spread, dresser, scarf, towels, toilet articles, and such accessories as draperies, desk lamp, etc., must be provided by the student.

RESIDENCE HALLS. There are five residence halls and five university-owned cottages for women. The residence halls are Boyd Hall, Bryan Hall, Howard Hall, Lindley Hall, and Voigt Hall.

The facilities for men include six residence halls—Scott Quadrangle, Johnson Hall, Biddle Hall, Bush Hall, and two other halls currently under construction which are as yet unnamed and designated only as dormitories No. 4 and No. 5—and eight barrack-type residence units.

ASSIGNMENTS. Following the assignment of a student to a place in a residence hall, an advance payment is required. The amount of the advance deposit, together with a deadline for its receipt, will be indicated in the assignment letter. One third of the advance deposit is applied to the student's room account and two thirds to the board account. Payments for board and room at Ohio University are spaced throughout the year, so that no more than one payment falls due each month. Full payment of the balance of the board and room charges may be made at the beginning of the semester by those wishing to do so. A schedule of payments and dates, determined by the Office of the Treasurer, will be forwarded with the assignment letter.

CANCELLATIONS AND REFUNDS. Full refund will be made to a person if request for cancellation is made by September 1 for the fall semester and by January 15 for the spring semester. After these dates, a person who fails to occupy assigned quarters will forfeit an amount equal to the minimum room charge for the semester, unless the space can be re-rented.

A student withdrawing during the semester will be refunded the unused portion of the board payment; the unused portion of the room rent will be refunded if the space can be re-rented. All vacancies will be filled in the order in which they occur. Students withdrawing from a housing unit under disciplinary action forfeit the return of any portion of the room rent.

For further information concerning housing accommodations, write the Director of Student Housing, Ohio University, Athens, Ohio.

ROOMS IN PRIVATE HOMES

Rooms in private homes are listed in the Office of the Director of Student Housing. Rooms are not listed until they have been inspected and approved by a member of the staff of the Director of Student Housing or of the Dean of Women. All undergraduate students are required to reside in approved housing.

A student renting a room in a private home is expected to remain in the home for one semester unless satisfactory arrangements are made with the householder.

FRATERNITIES AND SORORITIES

Eighteen social fraternities and nine of the ten social sororities maintain houses near the campus in which residence and dining facilities are available to members.

HOUSING FOR MARRIED STUDENTS

APARTMENTS. The University has 112 apartment units located on East State Street, approximately two miles from The Green. Each of these apartments has a living room, bedroom, kitchen, and bathroom with an abundance of closet space. Each apartment is provided with a gas cooking range and a gas heating unit. Tenants must arrange to supply the additional needed articles. The rent for each apartment is \$33.50 a month, payable in advance. The rental charge includes all utilities and garbage disposal.

In addition, there are seventeen furnished two-room prefabricated units which accommodate a like number of families. The rent for each unit is \$25 a month, payable in advance. Each family unit is complete within itself; though small, it is compact, efficient, and quite livable.

TRAILER PARK. The University Trailer Park, which will accommodate 33 privately-owned trailers, is located on East State Street, adjacent to the University Airport. Space rental for a trailer is \$8 per month, which includes water and sewage. Excellent toilet, bathing, and laundry facilities are provided for all trailer occupants. The rental charge does not cover electricity.

Convenient bus service is maintained by the University, on an hourly schedule when classes are in session, at no cost to the occupants of the East State Street area.

For further information concerning quarters for married students, write to the Director of Student Housing, Ohio University, Athens, Ohio.

OTHER UNIVERSITY SERVICES

STUDENT HEALTH SERVICE

The Student Health Service facilities are to be found in the Health Center Building, which can be reached from East Union Street.

The Health Center includes a complete clinic with X-ray and minor surgery, an infirmary of forty beds with an isolation wing, a physiotherapy department and nurses' quarters. There is an auditorium where, by means of health films and lectures, an accent is placed upon preventive medicine and health education.

The Health Service maintains a continuous record of each student's health, beginning with the family physician's report which is required on admission. A tuberculin skin test and chest X-ray are given each student on admission, and the X-ray is repeated before graduation. Since tuberculosis is a particular hazard in the college-age group, a special effort is made to detect early cases and protect the college community. The Director of the Health Service in this, as in all other respects, has authority to take steps to prevent the spread of communicable diseases and to maintain standards of sanitation on the campus.

The Health Service staff comprises four full-time doctors and nine registered nurses. A health fee of \$7.50 a semester entitles the student to the following:

1. *Clinic.* This ambulant or outpatient service is open from 8 a.m. to 5 p.m., except Saturdays when the hours are 10 a.m. to 12 noon. The Clinic is closed on Sundays and holidays.

2. *Infirmary.* This is the bed, or inpatient, service. Each student is entitled to infirmary care, subject to the judgment of the doctors. The daily visiting hour is from 2:30 to 3:30 p.m., and the number of visitors at any one time is limited to two per patient. During epidemics the visiting hour may be suspended.

3. *Emergency Service.* When the Clinic closes at 5 p.m. the main door is locked. Throughout the evening and night a nurse remains on duty, and a doctor is on call to care for emergencies. Admission can be gained by ambulance or car at the east entrance to the Health Center, or on foot at the west entrance where there is an illuminated night bell. This service is for emergencies only, and is not intended to be an extension of the daytime Clinic.

The university physicians do not make outside calls except in extreme emergency, and then only when called by a housemother, student dean, or other responsible person. The accessibility of the Health Center to all parts of the campus is one of its conspicuous features.

4. *Consultations.* Specialists in eye, ear, nose, throat, major surgery, and psychiatry are available in Athens, and consultations, obtained at the discretion of the Director, are at the expense of the Health Service. The student is responsible for any expense beyond first consultation. The Health Service does not assume any of the cost of glasses or dental care; students are expected to have these matters attended to at home. The Health Service fee does not include the cost of major surgery. The Health Center is not equipped to care for such cases, and they are therefore transferred to their homes or to the local (Athens) hospital. Students' families should carry hospital and medical insurance.

5. *Diagnosis and Medicines.* The Health Center is equipped with full diagnostic service, such as clinical laboratory, metabolism tester, and X-ray. No charge is made for any of these tests. Medicines are also dispensed without extra charge, except in certain chronic cases. Needless to say, the doctor must be the judge as to what tests and what medications are required in any given case.

EXCUSES. A student who has been a patient in the clinic or infirmary will be given a signed statement to be presented to his individual professors. Anyone absenting himself from class on his own initiative is responsible for his own excuse. A student, therefore, who feels unwell is wise to report to the Health Center at the earliest opportunity. See, also, "Absences" on page 67.

VACCINATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past five years, before being admitted to Ohio University. A blank certificate

giving detailed instruction is sent to each applicant for admission and must be returned to the Registrar properly completed and signed. Tetanus toxoid is given to all entering students unless they have been previously immunized.

COUNSELING

EDUCATIONAL COUNSELING. Each student is assigned to a faculty counselor who is primarily concerned with the educational guidance of the student throughout his freshman year. The counselor assists with the selection of courses and follows the progress of each student in his studies. Because the faculty counselor is selected from the student's major field of interest, many students choose to continue with the same adviser for four years. In the degree college the student is assigned to or selects his adviser on the basis of his field of specialization or concentration. Students are encouraged to consult freely with faculty advisers.

GENERAL COUNSELING. General counseling is a special concern of the Dean of Men and the Dean of Women and their associates in their offices in McGuffey Hall. Through student activities and organizations and the housing program these persons are in close touch with student life. Problems as a normal part of educational development are often personal in nature; e.g., meeting financial needs, getting along with people, making vocational choices. The offices of the Dean of Men and Dean of Women provide students with resources for helping themselves when confronted with perplexities beyond their own immediate resources. The Dean of Men and the Dean of Women work in close relationship with all other services in the University which are concerned with the welfare of students.

TESTING AND VOCATIONAL COUNSELING. Tests for all new student are administered, scored and reported to the administrative officers and faculty counselors. Students, counselors, and advisers may secure the results of such tests by inquiring at the University Testing and Vocational Counseling Service, Room 203, Carnegie Hall.

Complete vocational counseling is available to interested students. Educational and vocational plans are developed on the basis of a survey of the abilities, interests, aptitudes and achievements and also on the basis of the requirements for the occupations and their training programs. A fee of \$5 is charged to cover the costs of tests and test scoring. Application for this service may be made by contacting the staff of the Testing and Counseling service in Room 203, Carnegie.

See, also, "Testing Program" on page 55 and "Guidance Program" on page 78.

SPEECH AND HEARING CLINIC

The School of Dramatic Art and Speech offers clinical services without charge to students with special problems in speech or hearing. Students wishing counseling or training should inquire at the office of the Speech and Hearing Clinic. See, also, page 145.

ENGLISH CLINIC

Students who fail to meet Ohio University standards of clearness and correctness in expression of ideas in English may find help in the English Clinic. Description of this remedial work is to be found under "Proficiency in English" on page 69.

VETERANS AFFAIRS

Veterans who enter Ohio University should confer with the Coordinator of Veterans Affairs whose office is on the first floor of McGuffey Hall. It is that official's desire to be of all possible service to veterans enrolled in the University.

STUDENTS FROM ABROAD

Ohio University welcomes students from abroad who show promise of profiting from educational opportunities in this country and has prepared a special bulletin for the benefit of prospective students from outside the continental limits of the United States. This bulletin may be obtained by writing to the Adviser to Foreign Students, Ohio University, Athens, Ohio.

The Adviser's interest in the problems of the student from abroad is not limited to official matters, and all such students are invited to consult him at the beginning of their period of residence and to call upon him at any time during their stay at the University. His office is located on the first floor of McGuffey Hall.

BUREAU OF APPOINTMENTS

Through the Bureau of Appointments, located in Cutler Hall, students, former students, and graduates of the University may obtain assistance in securing positions in such fields as teaching, business, and industry. There is no registration fee, and no charge is made for service while an applicant for assistance is enrolled as a student in the University or during his first year out of school. After the one-year period a charge of \$2 a year is made for each year in which assistance is requested.

The Director of the Bureau of Appointments and the office personnel are available to counsel students relative to their vocational plans.

The Bureau maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

PUBLIC RELATIONS OFFICE

The University maintains a Public Relations Office, located in Cutler Hall, to provide interesting and reliable information to prospective students and public school officers through personal interviews, literature, and correspondence; and to arrange for the availability of university talent and services to high schools, civic groups and other organizations in order that good will toward the University may be furthered.

NEWS BUREAU

Supervised by the Director of Press Relations, the Ohio University News Bureau prepares stories, features, and pictures concerning all branches of the University, including intercollegiate athletics, and the activities and accomplishments of students and student groups, for publication in newspapers and magazines and for radio broadcasts. Assistance is given in writing material for various university publications and bulletins. Liaison is maintained with other university and college publicity departments. Visiting members of the press and radio are invited to make the News Bureau, located in Cutler Hall, their headquarters when visiting Ohio University, and every aid is given in securing data requested personally or by letter.

ALUMNI OFFICE

The Alumni Office, a central records office and service agency, located in Cutler 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 executive secretary of the alumni association.

The maintenance of biographical and address records of graduates and former students is a primary function of the office. *The Ohio Alumnus*, published monthly from October to June, is the official magazine of the alumni association and is mailed to all members paying the annual membership fee.

The Ohio University Alumni Association was organized June 22, 1859, to serve the mutual interests of the alumni and the University. Any person who has attended the University for at least one year is eligible for membership in it. The association is governed by an Alumni Council and an Executive Committee. Local groups, known as chapters, women's clubs, and Bobcat clubs have been organized in cities, counties, and other geographical areas where the number of graduates and former students is large enough to warrant or support such groups.

OHIO UNIVERSITY FUND, INCORPORATED

The Ohio University Fund, Incorporated, a non-profit organization, was incorporated Oct. 11, 1945, under the laws of the State of Ohio for the support, in a variety of ways, of the educational undertakings of Ohio University. The corporation receives and holds in trust any property, real and personal, that is given, devised, bequeathed, given in trust or in any other way made over to the Corporation for the use or benefit of Ohio University, or of any student or professor, or any dependent thereof, for the purpose of carrying on at the university any line of work, teaching or investigation, which the donor, grantor, or testator may designate. The corporation invests and disburses all monies received and manages, administers, and controls all property received according to the specifications established by the donors. General gifts are used for research, scholarships, travel, books and other library purposes,

buildings, beautification of grounds, and other uses as determined by the Board of Trustees.

The Fund is governed by a board of trustees of five members, chosen to give balanced representation from the Board of Trustees of Ohio University, from the administration of the University, and from the Ohio University Alumni Association.

Contributions should be made payable to The Ohio University Fund, Inc., and sent to the Associate Director, Ohio University Fund, Inc., Cutler Hall, Ohio University, Athens, Ohio. The Associate Director will be happy to answer inquiries relating to the objects and management of the Fund.

STUDENT FINANCIAL AIDS

Ohio University attempts to assist students in furthering their education on the college level by providing three types of financial aid: scholarships, loans, and part-time employment.

Unless otherwise indicated, persons desiring information concerning any of these types of aid or who submit applications for them should direct their communications to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

SCHOLARSHIPS

ALUMNAE AND ALUMNI SCHOLARSHIPS. A number of \$150 awards are made annually to outstanding high school graduates through the generosity of alumni. Included are scholarships provided by Heber McFarland, '10, Lakewood; Dwight H. Rutherford, '26, Athens; Phillip J. Braff, '43, Cleveland; Phyllis Taggart, '38, Chillicothe (a memorial to her mother, Mrs. Eleanor Somers Taggart); A. E. Miller, '16, Lombard, Ill. (a memorial to his son, John Winston Miler, '50); Dr. George A. DeStefano, '36, Canton; Roger H. Dean, '40, Charleston, W. Va.; and others.

Scholarships in varying amounts are awarded annually by Ohio University women's clubs in Akron, Dayton, and Youngstown, by Ohio University mother's clubs in Lakewood and Youngstown, and by various chapters of the Ohio University Alumni Association, to seniors graduating from high schools in the immediate areas of the organizations, or to students already enrolled in the University from these areas.

ALUMNI SESQUICENTENNIAL SCHOLARSHIPS. As their part in recognizing Ohio University's 150 years of educational leadership the alumni of the University are in the process of raising \$150,000 which they will give as a sesquicentennial gift to their alma mater. The money will be invested in the Irreducible Trust Funds of the State of Ohio. Sixty or more scholarships will be established in perpetuity through the contributions to the Alumni Sesquicentennial Scholarship Fund.

Awards will be based upon scholastic achievement, character, need, and recommendations. It is hoped that recipients of these awards may some day contribute to similar funds to help students who will follow them in years to come.

A.A.U.W. SCHOLARSHIP. Through the generosity of the Athens Branch of the American Association of University Women an annual scholarship has been established that provides for the remission of the general registration fee for each semester and is available to a girl graduate from an Athens County high school on the basis of citizenship, leadership, and scholastic aptitude and promise.

BEASLEY SCHOLARSHIPS. A grant of \$1,000 from Mr. F. R. Beasley, Athens, Ohio, provides cash awards each semester to outstanding freshmen on the basis of academic promise, citizenship, and personal qualities.

CLINTON POSTON BIDDLE MEMORIAL SCHOLARSHIPS. In 1939, Dr. T. R. Biddle, '91, and Mrs. Biddle, Athens, Ohio, gave \$5,000 to the University for the purpose of establishing a loan fund in memory of their son, Clinton Poston Biddle, '17. This fund is now available for scholarships, without limitations as to academic class or scholastic standing.

COLUMBIA DOWNING SCHOLARSHIPS. Madeleine Downing Knight, Glynlea, 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 from the fund, \$600 annually, is normally divided among several qualified students.

ROSE MARIE DARST SCHOLARSHIP. A bequest of \$3,000 has been received from the estate of the late Mrs. Mary E. Darst to establish a memorial to her daughter, Rose Marie Darst, '26, a former assistant professor of art at Kansas State College. Income from the memorial fund is used to provide scholarships for "worthy students of high standing in the Art Department."

RUTH AND ORAL DAUGHERTY SCHOLARSHIP. Through the generosity of Mr. Oral Daugherty and Mrs. Ruth Daugherty, of Nelsonville, an endowment has been established which provides an annual income of \$150 to be awarded a graduate of Nelsonville High School each year on the basis of scholastic aptitude and promise, qualities of citizenship, leadership, participation in school activities and evidences of good character.

EAST GREEN SCHOLARSHIPS. Each semester residents of East Green award two scholarships amounting to registration and other fees, to a maximum of \$75 each, to men who are outstanding in leadership, scholarship, and citizenship. Only residents of East Green are eligible for the awards.

FORBES FUND SCHOLARSHIP GRANTS-IN-AID. An endowment of \$8,000 provides \$480 cash each year to assist with the cost of housing for girls who are working to help pay college expenses. Awards are based upon scholastic standing and need.

GALBREATH SCHOLARSHIPS. A grant of \$1,000 from Mr. John W. Galbreath, a member of the Class of 1920 and a member of the Board of Trustees of Ohio University, provides cash awards each semester to outstanding freshmen on the basis of academic promise, citizenship, and personal qualities.

GRADUATE SCHOLARSHIPS. Several University Scholarships are available to college graduates who have maintained a high scholastic average. These awards pay the basic registration (resident or non-resident) fee. Applications should be filed with the Director of Student Financial Aids by July 1.

McLAUGHLIN SCHOLARSHIP. A scholarship has been established in memory of George E. McLaughlin, '14, former professor of industrial arts, by his daughter, Mrs. Helen McLaughlin Gray, '32. Income from a memorial fund of \$1,000 is awarded annually to an outstanding student who is majoring in industrial arts and who is in need of financial assistance.

ALBERT F. MARTING SCHOLARSHIPS. One two-year scholarship is available each year to high school graduates who enroll in the Portsmouth Branch of Ohio University. The value of the scholarship is \$100 for each semester the student is enrolled up to a maximum of four semesters.

Final awards are made by an impartial committee of five members. Awards are based upon the following: (a) high school scholastic record; (b) score on a college ability test; (c) qualities of citizenship, leadership, and participation in school activities.

Applications, in writing, should be made not later than July 1 to The Marting Bros. Co., Portsmouth, Ohio.

MESSENGER SCHOLARSHIPS. Four annual awards of \$200 each, payable \$100 at the registration period for the fall and spring semesters, are provided by *The Athens Messenger*, the local daily newspaper. These scholarships are available to residents of the area served by *The Messenger* and are awarded upon the basis of need, scholastic aptitude and promise, activities, and citizenship.

OHIO ACADEMY OF SCIENCE SCHOLARSHIPS. Scholarships are available to winners in the Ohio Academy of Science Competition for high school seniors. Awards are based upon: (a) high school scholastic record, (b) superior academy exhibit rating, and (c) approved rating in the National Science Talent Search Test or in a science test given by the Ohio Academy of Science. These scholarships provide for remission of the general registration fee each semester.

OHIO UNIVERSITY SCHOLARSHIPS. A limited number of scholarships are awarded annually to a selected group of high school graduates and college students who are outstanding in scholastic achievement, promise, and need. Each scholarship is awarded for the academic year of two semesters, and provides for the remission of the general registration fee each semester. A faculty committee appointed by the president of the University awards all scholarships on or before July 1.

Freshman Scholarships are awarded to high school graduates who rank high in their graduating classes. Awards are based upon academic record in high school and other information indicative of the candidate's general promise and need.

Upper-Class Scholarships are available to students who have completed at least two semesters in residence at Ohio University, or the equivalent at any other accredited school, who are carrying a full load, and who at the time of the award have a cumulative average of 3.0 (B) or above. Any student having a 3.0 average, or who expects to have an average of 3.0 by the close of the second semester, may apply for a scholarship at any time after April 1 and prior to June 1. Awards are based upon scholastic achievement, need, and college activities and interests.

RADIO SCHOLARSHIP. An award of \$100, presented jointly by Radio Station WJEH, Gallipolis, Ohio, and the Ashland Oil and Refining Co., Ashland, Ky., is made annually to a male student entering Ohio University as a freshman to pursue a course of study in radio, with special emphasis on sportscasting.

H. WESTCOTT ROACH SCHOLARSHIP. A scholarship has been established in the memory of H. Westcott Roach, '23, by his widow, Mrs. Helen Hedden Roach, '36. Income from a memorial fund of \$1,000 is used to provide an annual scholarship for a student of outstanding ability who is majoring in music and who is in need of financial assistance.

SCOTT QUADRANGLE SCHOLARSHIPS. The residents of Scott Quadrangle award two scholarships each year which provide for the remission of the general registration fee for each semester. Awards are based upon need, scholarship, character, and citizenship. Only residents of Scott Quadrangle are eligible for the scholarships.

SPECIAL MUSIC SCHOLARSHIPS. A limited number of scholarships are available to students having special ability and promise in applied music. These scholarships provide for remission of the general registration fee each semester and for remission of the applied music fees.

SPECIAL SCHOLARSHIPS. A number of special scholarships are available in amounts of \$130 and \$150 through contributions of friends of the University, including:

Altman's	Athens Machine Company
Athens Concrete Company	Athens National Bank
Athens Flooring Company	Athens Retail Merchants' Assn.

Bank of Athens	Logan's
College Book Store	The McBee Company
Commonwealth Telephone Co. of Ohio	Marietta Office Supply Company
Roger Dean, Inc.	Miller Construction Company
Ruth and Oral Daugherty	F. R. Murphey Insurance Company
Fleet Lease Corporation	Nye Chevrolet
Foster's University Shop	Ohio Fuel and Gas Company
French Shop	Pepsi-Cola Company
Mr. and Mrs. R. R. Gilson	Schine's Athena Theater
Johnny Jones Motors	Union Printing Company
Kasler Dairy Products	Valley Drive-In Theater
Knowlton Construction Company	Varsity Theater
The Lawhead Press, Inc.	F. W. Woolworth Company

PAUL AND BETH STOCKER SCHOLARSHIP. Through the generosity of Paul Stocker, '26, and Mrs. Beth Kilpatrick Stocker, '28, Lorain, Ohio, an endowment has been established which provides an annual income of \$150 to be awarded a son or daughter of an employee of the Lorain Products Corporation. Applicants must meet the standard requirements established by the University Scholarships Committee.

HARRIET E. TENAN SCHOLARSHIP. The Harriet E. Tenan Scholarship is awarded to an entering freshman boy or girl from McConnelsville, Ohio, who is recommended by the pastor of the McConnelsville Trinity Methodist Church and the editor of the *Morgan County Herald*. The annual award is made from the income from a gift to the University by the founder of the fund.

GENERAL SCHOLARSHIPS

AMERICAN BANKER'S ASSOCIATION SCHOLARSHIP. The American Banker's Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. This loan scholarship is awardable to a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

FULBRIGHT OR MARSHALL SCHOLARSHIPS. Students who are interested in applying for Fulbright or Marshall Scholarships should consult Dr. Victor Whitehouse, Chairman of the Foreign Study Committee. Application blanks are available at the opening of the academic year each September. Only graduate students are eligible for these awards.

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 bases of character, scholarship, athletics, and leadership in collegiate activities. Persons desiring information or application blanks should direct their communications to Dr. Paul G. Krauss, Ohio University, Athens, Ohio.

GRANTS-IN-AID

LICHTER GRANTS-IN-AID. Through a gift of the Lichter Foundation of Cincinnati, a total of twenty grants-in-aid of \$200 each will be available during 1954-1956 to high school graduates in modest circumstances who desire an opportunity of working their way through college. Awarding of the grants will be based upon character, superior scholastic standing, recommendations, definite need, and personal interviews.

Applicants for these grants must be prepared to demonstrate their willingness to take employment as a means of helping to defray their expenses. The University will make available employment on the campus, or will give assistance in obtaining employment elsewhere.

Should a successful applicant find that the grant-in-aid, his own earnings, and supplementary help from home sources are not sufficient to cover school expenses, he will have the privilege of borrowing from the Lichter-provided loan fund (see below).

LOAN FUNDS

Certain general provisions apply to all loan funds unless otherwise noted. These provisions include the following:

1. Applicants must have a scholarship average of at least a C (2.0).
2. Long-term loans bear an interest rate of four (4) per cent per annum.
3. For the most part, long-term loans are available only to upper-class students (juniors and seniors).
4. Inquiries and applications should be directed to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

ALUMNI LOAN FUND. A number of alumni and friends of Ohio University have contributed over \$8,000 for the purpose of furnishing loans to students pursuing four-year courses in the University. Loans may not exceed \$150.

KELLOGG FOUNDATION LOAN FUND. The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a scholarship and loan fund for medical technology students during their year at Mount Carmel Hospital in Columbus. See "Medical Technology" on page 101.

LICHTER FOUNDATION LOAN FUND. In considering applications for assistance, primary consideration will be given to the student's scholastic record. However, account will also be taken of the applicant's evidences of need for financial assistance, of his good character, and of his general worthiness and professional promise.

To receive favorable consideration, an applicant must:

1. Be endorsed as to character and personality by (a) two persons of some standing in the community in which he has re-

sided who have known the applicant at least five years, one of whom preferably should be an alumnus of the University; (b) the principal or head master of the high school or preparatory school, or the president or dean of the college or university previously attended; (c) the registration officer or head of the college in which he is enrolled.

2. Be in good health, and furnish upon request a certificate from a physician to that effect.
3. Submit a statement of his financial needs and such other information as the Foundation may deem necessary, on the application form of the Foundation, such application to have the approval of his parent or guardian.
4. Be prepared upon request to furnish such life insurance as collateral as may be required by the Foundation.

A recipient of a loan will be required to sign a promisory note for each sum received. The notes will begin to bear interest at the rate of 3% per annum, payable semi-annually, one year after graduation, or after leaving the University for other reasons. Should the applicant, for reasons satisfactory to the Foundation, postpone entering upon his earning career, he may apply for deferment of the date of the beginning of interest until one year after entering upon his earning career.

One year after leaving the University, and annually thereafter, the recipient of a loan will be required to consult with the Lichter Foundation for the purpose of establishing a program of payment of the notes commensurate with his earning capacity. He will be required, on these occasions, to inform the Foundation of his whereabouts, the character of the work in which he is engaged, and the remuneration he is receiving.

In general it will be the policy of the Foundation to make loans to students who have completed at least one year of residence in college with a good academic record. In exceptional cases, applications will be considered from a student after one semester of residence. Applications will be considered from students entering college in special cases, in which the applicant shall have met, with high standing, all entrance requirements and shall present references and records of previous attainments of the highest order.

See, also, "Lichter Grants-in-Aid," page 28.

OHIO UNIVERSITY ENGINEERS' LOAN FUND. The Ohio University Student Chapter of the Ohio Society of Professional Engineers has established a loan fund for needy and deserving engineering students. Loans of from \$25 to \$200 may be obtained.

JAMES P. PORTER LOAN FUND IN PSYCHOLOGY. This fund was established by graduates and former students who were majors in psychology under Dr. James Pertice Porter, former head of the Department of Psychology, in honor of their onetime professor. Loans are available to upper-class students and graduate students in psychology under regulations set up to govern the fund.

HENRY STRONG EDUCATIONAL FOUNDATION LOAN FUND. Ohio University is one of the select list of colleges and universities which is granted an allotment from The Henry Strong Educational Foundation. Loans up to \$600 for an academic year may be obtained by juniors, seniors, and graduate students under twenty-five years of age who are superior risks according to scholarship, character, and future financial ability. Foundation loans bear an interest rate of 3% per annum.

G. FRANKLIN WHITE STUDENT LOAN FUND. This fund, of \$2000, was provided by the will of the late Dr. G. Franklin White, '01. Preference is given to students preparing to teach and to pre-medical students. Preference, under the terms of the grant, is also given to residents of Ohio, although non-residents are not barred from applying for loans.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. The Women's League of Ohio University maintains a loan and service fund for women students. A sum not to exceed \$150 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.

EMERGENCY LOAN FUNDS

ALPHA PHI OMEGA LOAN FUND. Delta Gamma Chapter of Alpha Phi Omega, national scouting service fraternity, has established a loan fund of \$50. Scouts or former scouts may borrow up to \$15 from this fund to meet financial emergencies. A service charge of 25 cents is made for a 30-day loan.

LAKEWOOD MOTHERS' CLUB LOAN FUND. The Ohio University Mothers' Club of Lakewood, Ohio, has given \$100 to be used as an emergency loan fund for the benefit of students whose homes are in Lakewood, Rocky River, Bay Village, or Fairview. Any amount up to \$10 may be borrowed for one month's time without qualification except as to residence. A fee of 25 cents is charged for each loan.

MEN'S UNION EMERGENCY LOAN FUND. The Men's Union, which is the governing organization representing all men on the Ohio University campus, has set up a loan fund with a principal amount of \$1,200. Loans not exceeding \$25 are made to men students to meet financial emergencies. Loans are not made for expenses which might reasonably be anticipated. A service charge of 40 cents is made for a 30-day loan.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. The Women's League, in addition to their long-term loan, has set up a loan fund for women on the short-term basis. A maximum amount of \$25 may be borrowed for 30 days with a service charge of 40 cents.

HEALTH SERVICE FUND

DELLA HIXSON HEALTH SERVICE FUND. Prompted by a deep interest in physical welfare, the late Mrs. Della Connett Hixson, '97, Cambridge,

Ohio, bequeathed a sum of money to the University, the annual interest on which, approximately \$700, is to be used for the treatment and hospitalization of students who are financially unable to provide such service for themselves or whose families cannot defray these expenses. The fund, known as the Della Hixson Health Service Fund, is administered by a committee composed of the Dean of Women (chairman), the Dean of Men, and the Director of the University Health Service.

PART-TIME EMPLOYMENT

Every effort is made to secure employment for those students whose resources are not adequate for entire self support and who request aid. The placements are both on campus and off campus, and fall into three general categories: (1) board jobs in various university dining halls; (2) part-time work as student assistants in university departments and offices; (3) part-time employment in Athens business establishments and homes. The job referrals are based upon: (1) cumulative grade average, (2) need, (3) personal qualifications, (4) past experience, and (5) free time. In the cases of freshmen, high school records and recommendations are considered.

Provision is made for special class schedules in order to permit students to meet employers' needs. Adjustment of academic programs for purpose of employment will not be made for students having less than a 2.0 (C) cumulative average, for students on academic warning, or for working beyond a distance of 75 miles from Athens. Freshman students, in cases of essential need, are given every consideration for permits for schedule adjustment. Students applying for permits must present a letter from the employer, stating working hours, to the office of the Dean of Men or Dean of Women before consulting their adviser prior to registration for the semester.

Anyone wishing to apply for part-time employment may do so by writing directly to the Director of Student Financial Aids, Ohio University, Athens, Ohio, or by contacting the director personally in Room 304, McGuffey Hall.

PRIZES AND AWARDS

Announcement of the winners and presentation of the following prizes and awards are made at the Honors Day Convocation, usually held in April.

A. A. ATKINSON AWARDS. Awards of \$10 as a first prize and \$5 as a second prize are given to the best senior students majoring in the Department of Electrical Engineering, and an award of \$10 is given to the best senior student majoring in the Department of Physics. The awards are provided by the income from a scholarship fund established by the late Dean A. A. Atkinson of the College of Applied Science. Committees, composed of the teaching staff of each department, choose the winners upon the basis of rules stipulated by the donor.

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 3.6 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, national social sorority, offers each year a prize of twenty-five dollars to the sophomore girl presently enrolled who has attained the highest scholastic average after completing three semesters of work.

ALPHA GAMMA DELTA SPEECH CORRECTION AWARD. Zeta Chapter of Alpha Gamma Delta, national social sorority, makes an annual cash award of \$50 to a major (man or woman) in speech correction, of senior rank, who expects to continue professional preparation at the graduate level. The award is based upon scholarship, clinical ability, and promise of professional development.

ALPHA LAMBDA DELTA SENIOR AWARD. The Ohio University Chapter of Alpha Lambda Delta, a national society for the recognition of high scholastic attainment on the part of freshmen women, annually presents a book to the four-year senior member of the organization who has the highest cumulative average.

ALPHA LAMBDA DELTA SENIOR HONOR CERTIFICATES. Certificates are awarded to all senior members of Alpha Lambda Delta who throughout their college courses have maintained a scholastic average of 3.5 or better.

ALPHA LAMBDA DELTA AWARD. An award of \$10 is made annually to the Junior Class member of the organization with the highest rating for scholarship, character and campus citizenship. The recipient must have completed five semesters at Ohio University and have at least a 3.5 scholastic average.

CHI OMEGA ECONOMICS PRIZE. Tau Alpha Chapter of Chi Omega, national social sorority, 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.

CLEVELAND BOBCAT CLUB AWARD. The Bobcat Club of Cleveland makes an annual award of \$25 to a freshman boy who stands among the five highest, scholastically, from Cuyahoga County. The final selection is made by the Scholarships Committee acting with the Dean of Men.

DELTA PHI DELTA AWARDS. Iota Chapter of Delta Phi Delta, national art fraternity, makes two annual awards; one to the freshman doing the most outstanding work in the space arts, the other to the outstanding senior majoring in the fine arts.

DICK DE LA HAYE HUGHES BAND AWARD. The Dick De La Haye Hughes Memorial Band Fund was established by Mr. M. D. Hughes,





of the Class of 1912, and Mrs. Hughes, Athens, in memory of their son, a former student and member of the university band. The income from the fund, amounting to \$60, is awarded annually to the member of the band of junior rank who is most outstanding in musicianship, band citizenship, leadership and recognized initiative in furthering the interest of the organization. The award may be divided between two juniors, or awarded to a senior, provided no junior is eligible. No student may receive the award twice.

DOUGAN VARSITY BASEBALL AWARD. Dr. Stanley Dougan and Mrs. Nelle Stokes Dougan, Palm Springs, Calif., of the Class of 1914 and the Class of 1916, respectively, have established a baseball award with a gift of \$1000. Doctor Dougan, a retired surgeon, was captain of the Ohio University baseball team in 1913.

The income from the gift, \$60, is awarded at the end of each season to a member of the varsity baseball team selected by the coaching staff and team members on the basis of inspiration to the team, leadership, and performance on the field of play. Character and conduct both on and off the field, and scholarship, are other considerations. A student who has once won the award is not again eligible to receive it.

EMERSON POEM PRIZE. 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. Prizes shall not be awarded unless the judges deem the poems are worthy.

Regulations governing the contest, which must be observed in every particular, may be secured from the Chairman, Department of English, Ohio University, Athens, Ohio.

Poems for the next competition must be in the hands of the President of the University before the opening of the second semester of 1953-54.

EVANS LATIN PRIZES. The Dafydd J. Evans Latin prizes were established under the auspices of the Ohio University Alumni Association in recognition of Professor Evans' half century of service to the University. They consist of a first prize of \$25 and a second prize of \$12.50 to be awarded each year.

FRANCES McVICKER MAXWELL DEBATE AWARD. An award of \$18 is made to the junior or senior student, man or woman, selected for outstanding performance in intercollegiate debating during each academic year. The award was established by Frances McVicker Maxwell in memory of her days as a student at Ohio University. The winner is selected by a committee of three persons chosen from the faculty of the School of Dramatic Art and Speech by the President of the University.

FRANK B. GULLUM AWARD. An award of \$25, known as the Frank B. Gullum Award for Scholastic Achievement, is made annually by Beta Chapter of Delta Tau Delta, national social fraternity, to the male student making the highest scholastic record during his first two semesters at Ohio University. There are certain qualifying restrictions with regard to the minimum number of hours of credit earned at the University and enrollment, or early eligibility for enrollment, in one of the degree-granting colleges of the University.

HORN SENIOR COMMERCE PRIZE. Mr. Clarence H. Horn, of the Class of 1901 and for a number of years prior to his death in 1927 a lecturer in the College of Commerce, established a trust fund from the fees he received for his service. The income from the fund, supplemented by contributions from his widow, Mrs. Sarah M. Horn, and a son, Robert H. Horn, of the Class of 1900 and Class of 1925, respectively, is paid annually to the Bachelor of Science in Commerce degree senior who has the highest scholastic average in commerce subjects. The prize amounts to \$50.

J-CLUB AWARD. J-Club, an organization for the recognition of participation in extracurricular activities, each year presents a key to the man in the junior class having the highest scholastic average. Competition is campus-wide.

JOHN BAYARD THOMAS BIOLOGY PRIZE. The John Bayard Thomas prize in biology was established by Dr. Josephus Tucker Ullom, Philadelphia, Pa., of the Class of 1898, as a memorial to a nephew. The prize \$25, is 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. 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.

MEN'S UNION SCHOLARSHIP PRIZES. The Men's Union awards keys to the man or men having the highest scholastic standing in each of the two semesters preceding the award. These are presented in the Spring at the annual Honors Day Convocation.

The Men's Union also offers five cups; one each to the social fraternity, the social fraternity pledge class, the hall in Scott Quadrangle, and two for the halls on the East Green which have the highest scholastic averages for the fall semester.

OHIO UNIVERSITY FUND AWARDS. The trustees of the Ohio University Fund, Inc., make it possible each year to give unique awards to several outstanding students. The awards are given to seniors who show outstanding ability and willingness to undertake scholarly work independently and on their own initiative. The Committee on Encouragement of Scholarship helps each recipient plan an intellectual experience tailored to his particular interests. The awards have included visits to laboratories, factories, and graduate schools, and attendance at clinics, symposia, and meetings of learned societies. All the resources of the

campus are mobilized to provide entrees and letters of introduction. No fixed sum of money is named but the Ohio University Fund defrays such expenses as travel and living costs.

PANHELLENIC SCHOLARSHIP AWARDS. An award in the form of a plaque is presented annually by the Panhellenic Council to the sorority that has had the highest scholastic average for the preceding two semesters.

PANHELLENIC FOREIGN STUDENT AWARD. The Panhellenic Council makes an annual award to a foreign woman student who is chosen upon the basis of scholarship and need. The award consists of boarding privileges, for a fixed period and without charge, in the home of each of the sororities composing the council.

PHI EPSILON PI MEMORIAL AWARD. An award honoring fraternity brothers killed in action in World War II has been established by Alpha Rho Chapter of Phi Epsilon Pi, national social fraternity. The cash award of \$25 is given annually to the honorably discharged veteran, man or woman, who attains the highest scholastic standing for the year as determined by the University. To be eligible for the award, the veteran must be enrolled as a full-time student, carrying not less than 12 academic hours.

PHI MU PLEDGE CLASS AWARD. Delta Delta Chapter of Phi Mu, national social sorority, annually presents a traveling plaque to the sorority pledge class having the highest scholastic average for the first semester of the year.

PHI UPSILON OMICRON AWARD. A silver cup is awarded each year by Phi Upsilon Omicron, national home economics professional honor fraternity, to the sophomore student in home economics having the highest scholastic average during the first three semesters at Ohio University.

PHI UPSILON OMICRON PRIZE. Theta Chapter of Phi Upsilon Omicron offers each year a prize of twenty-five dollars to a senior woman in Home Economics selected on the basis of scholarship, leadership, and professional attitude.

SIGMA ALPHA IOTA MUSIC PRIZE. Sigma Beta Chapter of Sigma Alpha Iota, national professional music fraternity for women, gives a prize of \$25 to the sophomore woman with a major in music who has attained the highest cumulative average above 3.0.

SIGMA ALPHA IOTA NATIONAL HONOR CERTIFICATE. An Honor Certificate is given by the national fraternity to the senior member of the local chapter of Sigma Alpha Iota who has attained the highest scholastic average based on all subjects taken during her college course.

SIGMA DELTA CHI SCHOLARSHIP AWARD. Certificates are awarded by the Ohio University chapter of Sigma Delta Chi, national journalism fraternity for men, to the highest five per cent of all journalism students graduated during each academic year.

SIGMA DELTA CHI SPECIAL AWARD. A certificate is given annually by the Ohio University chapter of Sigma Delta Chi to the most outstanding senior man in journalism.

SINA SIDWELL ROGERS PRIZE IN FINE ARTS. The Sina Sidwell Rogers Prize in Fine Arts was established in 1952 by Elizabeth Sidwell Wagner in memory of her sister, Sina Sidwell, of the Class of 1925. A prize of \$30 is awarded each spring to the junior or senior member of Iota Chapter of Delta Phi Delta, national art fraternity, demonstrating exceptional technical ability and imagination in his art classes. The selection for the award will be made by the faculty adviser of Delta Phi Delta, the director of the School of Painting and Allied Arts, and the dean of the College of Fine Arts. No one may receive this award twice.

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 \$2,500. 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.

THETA SIGMA PHI AWARDS. Certificates are given annually by the Ohio University chapter of Theta Sigma Phi, national journalism fraternity for women, to the two most outstanding senior women in journalism, with consideration given to contributions to journalistic activities and campus publications, as well as scholarship.

THOMAS COOKE McCracken Kappa Delta Pi Scholarship Award. Omega Chapter of Kappa Delta Pi has established a scholarship fund in honor of Dean Emeritus Thomas Cooke McCracken, dean of the College of Education from 1922 to 1946. An award is made each year to a senior in or an alumnus of Omega Chapter, or a senior in the College of Education, who expects to pursue graduate study in teacher preparation. Selections will be made on the basis of criteria set up by Omega Chapter. Applications for the award should be sent to the Counselor, Omega Chapter, Kappa Delta Pi, Ohio University, Athens, Ohio, not later than March 1.

VARSITY "O" SCHOLARSHIP AWARD. An award of \$50 is made annually by the Varsity "O" Club to the varsity athlete with the best record for scholarship and all-round campus citizenship. The selection is made on the basis of efforts in behalf of the organization, performance in a varsity sport(s), scholastic standing, and participation in other campus activities.

WOMAN'S MUSIC CLUB PRIZE. The Woman's Music Club of Athens awards an annual prize of \$25 to a senior student chosen from the music

majors in the College of Education, or applied music majors in the College of Fine Arts with a minimum of 60 hours in music courses. The Director of the School of Music in the College of Fine Arts makes the selection. Consideration is given to scholastic average, which must be at least a 3.0 average, and to the excellence of the performance in senior or graduation recital.

WOMEN'S INDEPENDENT ASSOCIATION AWARD. A key is awarded annually by the Women's Independent Association to the upperclass woman with the highest cumulative average.

WOMEN'S LEAGUE SCHOLARSHIP AWARDS. The Women's League Senate awards \$25 to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholastic average for a period of two consecutive semesters within a 12-month period.

The Women's League annually awards a room scholarship to a foreign woman student who is chosen on the basis of demonstrated scholastic ability and need. The room is in one of the residence halls of the University.

The Women's League presents certificates to the women students who have a 4.0 scholastic average for the second semester of the year preceding the award or the first semester of the year in which the award is made.

The Women's League awards a plaque to the cottage for women having the highest scholastic average for all residents for a semester.

ZETA TAU ALPHA PRIZE IN FINE ARTS. Alpha Pi Chapter of Zeta Tau Alpha, together with the Athens alumnae chapter, awards a prize of \$25 each year to the sophomore in a given field in the College of Fine Arts recommended by a committee for merit, scholarship, and future promise of success. The prize is awarded in rotation to a student in music, in speech, in painting, and in dramatic art.

CULTURAL OPPORTUNITIES

FOREIGN STUDY PROGRAMS

EXCHANGE PROGRAMS IN FRANCE AND SPAIN. Students interested in spending a year in France or Spain may have the opportunity to do so under the Exchange Program sponsored by the University and supervised by the Department of Romance Languages. These students will follow an academic program in Paris or Madrid under the guidance of the French Ministry of Education or the Instituto de Cultural Hispanica, and, upon presentation of a diploma granted for the work done, will receive credit for a year of work at Ohio University.

Any student may participate in this program who has the preparation in language necessary to pursue the course work. However, lan-

guage majors (particularly those who are preparing to teach) will be given preference where a choice is necessary. It is highly desirable that the student be in his junior year during his study abroad, although exceptions may be made in deserving cases.

Each student pays to the Office of the Treasurer the same fees that he would pay were he to be on the campus. The French or Spanish student pays the same fees (board, room, and tuition) in his own school. The two then exchange places.

Ordinarily the student will sail for Europe in mid-September. This will give him time to adapt himself to his surroundings and to become more fluent in the language before the opening of classes in early October. Classwork usually ends about the first of July. All arrangements for this program are made through the Chairman, Department of Romance Languages, Ohio University, Athens, Ohio.

TRAVEL—STUDY PROGRAMS IN FRANCE AND SPAIN. Each summer Ohio University sponsors a program of travel and study in France and Spain. These projects are primarily intended for teachers of French and Spanish in high schools and colleges, but other interested persons may be accepted. Language qualifications must be met only where credit is desired.

The program consists of a period of three or four days spent on the campus, followed by five weeks in and about Paris or Madrid, with the time divided between classwork and educational and recreational activities. The dates of the program are approximately the same as those of the Ohio University Summer Session.

Up to six hours of graduate or undergraduate credit may be earned in French or Spanish in three two-hour courses. The classwork is held in the mornings, leaving afternoons, evenings and weekends free for sightseeing, travel, and the theatre. The last week is free of classwork and students are at liberty to do whatever traveling they may care to do.

The groups will be under the guidance of one of the regular members of the Ohio University staff, and instruction will be given by native French or Spanish teachers. Those not wishing to earn credit will register as auditors.

Persons interested in this program should communicate with the Chairman of the Department of Romance Languages, Ohio University, for further details.

UNIVERSITY LIBRARY

Books are an important part of an educational experience at Ohio University. The University Library is organized to provide books for study and research and to promote an appreciation for reading as one of the cultural assets of later life.

The collections are housed in the Edwin Watts Chubb Library, erected in 1930 and named in honor of a former dean of the College of Arts and Sciences. The main collection of more than 225,000 volumes,

including periodical sets, documents, and pamphlets, is shelved chiefly in the stacks to which all students have direct access. A reference collection of several thousand volumes is in the Reading Room and current issues of more than 1000 periodicals and newspapers are in an adjoining Periodical Room. The Library is equipped with both microfilm and microcard readers.

Books reserved in courses at faculty request are on the ground floor. The Athenian Room serves as a history reading room; selected documents and maps are on display illustrating the history of the University and the state. The Philomathean Room contains general literature. Other special subject reading rooms will be developed as facilities permit. A browsing room contains books of general interest for pleasure reading.

In the Children's and Young People's Room an extensive collection of books for younger readers provides service to the children of Athens and is used as a laboratory by students in education. Small collections of specialized material are administered by the Department of Chemistry, the School of Music, and the College of Commerce, in their respective buildings.

During regular sessions the Library is open daily and throughout the evening; on weekends and during vacations shorter hours are observed. Library service to the general public is offered in cooperation with the Athens County Library.

GUEST ARTISTS AND SPEAKERS

In addition to bringing many distinguished persons to the campus for limited engagements, the University each year invites one or more guest artists to spend periods of time during which they not only lecture or appear in recitals but counsel informally with interested students.

Among the visitors who have recently been in residence for consultation and instruction are Dr. Ernst Von Dohnanyi, eminent Hungarian composer, conductor, and pianist; Mr. Henry A. Frost, former director of the Cambridge School of Architecture and chairman of the Department of Architectural Science at Harvard University; Mr. Charles Burchfield and Mr. Yasuo Kuniyoshi, distinguished professional artists; and Mr. Charles Allen Smart, author of a best seller, "R.F.D.," and of other novels including "New England Holiday," "The Brass Cannon," "Wild Geese and How To Chase Them," "Roscommon," and "Sassafras Hill."

COMMUNITY CONCERTS

Season tickets for concerts sponsored by the Athens Community Concert Association are available to students of the University at reduced rates. During recent years the Association has brought to the campus internationally-famed instrumentalists and vocalists, symphony orchestras, opera companies, and ballet groups.

ATHENS CHAMBER MUSIC SOCIETY

Memberships for artist chamber music concerts sponsored by the society are available to students of the University at reduced rates at the beginning of each school year.

FINE ARTS PROJECTS

The College of Fine Arts plans many events of a cultural nature each year. In addition to the numerous concerts and plays which are presented by the students and faculties of the School of Dramatic Art and Speech and the School of Music, the two schools have cooperated in campus-wide production of Jerome Kern's "Roberta," George Gershwin's "Girl Crazy," "Song of Norway," based on the music of Edward Grieg, "No, No, Nanette," "Brigadoon," "Fledermaus," and "Finian's Rainbow."

Since 1943, the School of Painting and Allied Arts has sponsored the Ohio Valley Oil and Water Color Show, a competition open to artists of Ohio, Illinois, Indiana, Kentucky, West Virginia and Pennsylvania. The University is building a permanent collection of paintings, many of which are purchased from this show.

ART EXHIBITS

The School of Painting and Allied Arts maintains an art gallery in the Edwin Watts Chubb Library in which a program of exhibitions is conducted throughout the year. Other exhibitions are scheduled from time to time in other parts of the library.

A special exhibit of paintings loaned by some of the country's leading art museums and representative of American painting during the span of Ohio University's sesquicentennial period, will be on display during a portion of 1954, the sesquicentennial anniversary year.

Paintings valued at more than a quarter of a million dollars have been promised by the Metropolitan Museum of Art in New York City and by galleries in Boston, Philadelphia, Brooklyn, Cleveland, Detroit, and other cities.

UNIVERSITY MUSEUM

The University Museum of Natural History, oldest of its kind west of the Allegheny Mountains, houses more than 80,000 specimens, including specimens from Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

Many science collections have gravitated to the museum through the efforts of local groups, societies and individuals. These have yielded series of fossils, rocks, minerals, plants and animals. In addition, there are on display many items of archaeological, ethnological, economic and historic interest.

The museum is housed in the basement of Alumni Memorial Auditorium and is open to the general public—Monday through Friday, 9 to 11 a.m., Monday and Tuesday, 3 to 5 p.m., Friday 1 to 3 p.m., Saturday and Sunday by special group request.

RECREATIONAL OPPORTUNITIES

THE UNIVERSITY CENTER

The University Center Building was designed to provide maximum facilities for the cultural, social, and recreational benefit of students. This \$1,500,000 structure, located opposite the north gateway to the campus, contains three beautiful lounges, a large ballroom, dining rooms, cafeteria, snack bar, library and record listening room, television, conference rooms, student government and publications offices, and recreational areas for bowling, billiards, table tennis, and cards.

Club rooms for both men and women members of the university faculty are also located in this building.

The University Center is primarily a place for fun and relaxation and students are free to take full advantage of its facilities under regulations formulated by a faculty-student policy board. Parents and friends of students are always welcome at the Center.

THE NATATORIUM

The Natatorium is one of the largest and most modern of such structures on any college campus.

Conveniently located adjacent to the main campus, the building is featured by a pool, 42 feet wide by 75 feet long, with six standard 7-foot racing lanes and a rated capacity of 116 persons. The pool is equipped with submerged lighting, and Olympic-style starting blocks and diving boards.

Besides the pool, the building contains locker rooms, dressing rooms, classrooms, foot bath pits, trainer's quarters, and spectator accommodations for almost 1,000 persons.

The facilities of the Natatorium are available to students for both credit and recreational swimming.

GENERAL RECREATION

The Division of Physical Education and Athletics directs the intramural athletic program at Ohio University. This program includes competitive and physical recreational activities that are sponsored for men and women students.

Facilities at Ohio University for intramural athletics include a gymnasium for men, a gymnasium for women, a natatorium, and extensive outdoor recreational areas. The men's athletic fields are equipped to handle six softball games or four touch-pass football games at one time. The women's athletic field is available for intramural softball, hockey, and soccer. Twenty tennis courts are used interchangeably for men's and women's programs.

The following intramural activities are offered: touch football, basketball, volleyball, softball, tennis, badminton, bowling, horse shoes, wrestling, field days, soccer, hockey, swimming and table tennis.

The Division of Physical Education and Athletics directs the varsity sports program which consists of football, baseball, basketball, track, wrestling, cross country, tennis, swimming, golf, and riflery.

The Women's Recreation Association has a cabin in the wooded hills outside of Athens that is available to many groups for outing activities.

A nine-hole, university-owned golf course, located within a few minutes' walk of the campus, is currently under construction and will be ready for use in the spring of 1954.

The University Center is, as its name suggests, truly a center of recreational, social, and educational activities within most attractive surroundings. For a more detailed statement, see "University Center" on page 41.

Dramatic productions by the University Theatre and the University Playshop are scheduled at frequent intervals for the enjoyment of students and members of the local community.

Numerous dances, sponsored by C.A.C.-recognized organizations and open to all students, are held during the year. These are both formal and informal in nature.

The Dance Club, sponsored by the women's department of the Division of Physical Education and Athletics, gives an annual dance concert which is a production of compositions in dance form.

Under the sponsorship of the Men's Independent Association feature movie productions are shown three nights each week in Memorial Auditorium.

Several of the local churches have social-religious programs that are designed for and enjoyed by large numbers of students.

Not many miles distant from Athens, and suitable as weekend diversions, are the attractions of three of the state's most scenic areas—Lake Hope, in the heart of the Zaleski State Forest, the caves and gorges of the Hocking Park Area, and Burr Oak Lake near Glouster, Ohio.

STUDENT ACTIVITIES AND ORGANIZATIONS

SOCIAL POLICY

The students, faculty, and administrative officers of Ohio University and the community of Athens are united in their interest in maintaining a moral tone and a social pattern that is in keeping with good taste and acceptable social practice anywhere among educated people.

Ohio University has a long and interesting history. Succeeding generations of students who come to the University with varying backgrounds and social interests should enrich the traditions, social standards, prestige, and reputation of the University. The University expects students to exercise discerning judgment and to be personally responsible for absorbing and complying with the social patterns of the university community.

The student body, faculty, and administrative officers, therefore, will employ any reasonable means to control moral indiscretions and social behavior which is in bad taste.

CAMPUS AFFAIRS COMMITTEE

The Campus Affairs Committee is the official executive committee of extracurricular life, recognized and authorized by the President. It corresponds to the academic executive board of which the President is chairman. The two personnel deans, Dean of Men and Dean of Women, are the administration's permanent representatives on the committee and serve as co-chairmen, alternating annually as presiding officer. In addition to the two personnel deans, four faculty members, two men and two women, are appointed for three-year terms by the President. The five student members are elected each year. All of the Campus Affairs Committee student members are on the committee by virtue of their positions; namely, the president and two vice presidents of the Student Council elected by the campus at large, and the presidents of the Women's League and the Men's Union.

The Campus Affairs Committee is held responsible by the President for extracurricular policies, for allocation of the non-athletic portion of the student activity fee, for final decisions relative to new organizations on campus, for those activities growing out of student life which affect campus and public relationships, for the jurisdiction over rules and regulations in which both men and women are involved, and for any other matters which the President may refer to it.

STUDENT GOVERNMENT ASSOCIATIONS

THE STUDENT COUNCIL. The Student Council is composed of voting representatives of the following campus organizations:

- | | |
|---------------------------------|-------------------------------|
| (2) Men's Union | (1) East Green Council |
| (2) Women's League | (4) Class Representatives |
| (1) Panhellenic Council | (1) Women's Independent Assn. |
| (1) Interfraternity Council | (1) Men's Independent Assn. |
| (1) Campus Religious Council | (1) Y. M. C. A. |
| (1) Women's Recreation Assn. | (1) Y. W. C. A. |
| (1) Ohio University <i>Post</i> | (1) Varsity "O" |
| (1) International Club | (1) Alpha Phi Omega |
| (1) Scott Quadrangle Council | |

The Dean of Women, Dean of Men, Campus Chest chairman, O.U. Center Program Board chairman, and a representative of WOUI (campus radio station) are ex-officio members of the council.

The president and a man and a woman vice-president of the Student Council are elected by a campus ballot in May and serve during the ensuing academic year. The council operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority, with the approval of the Campus Affairs Committee, to consider, promote, and put into effect projects which pertain to student activities and, particularly, to promote a balanced campus-wide social program.

THE WOMEN'S LEAGUE. The Women's League, the all-women's organization, has an active membership of every regularly-enrolled woman student. The Women's League shares the Student Government Room in the Ohio University Center. The activities sponsored by the League consist of a Freshman Women's Party, receptions, teas, Co-ed Prom, and Leadership Conference. Each year the League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters. In addition, it grants a resident scholarship to one foreign student.

THE MEN'S UNION. The Men's Union is an organization to which every regularly-enrolled male student automatically belongs. The Men's Union sponsors the Registration Hop in September, the annual Men's Leaders' Banquet, Migration Day, Homecoming activities, 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 makes an award of a gold medal to the man with the highest scholastic standing as well as five cups for group achievement (see page 34).

PUBLICATIONS

The *Ohio University Post*, the student newspaper, is published twice a week. *The Athena*, a yearbook published under student editorship, appears toward the latter part of the spring semester. The editorial and business offices for both publications are located in the Ohio University Center.

Opportunities are provided for practical work in copy writing and editing, photography, salesmanship, accounting, and business and editorial management. Students are encouraged to make application for the various positions on the publications staffs through the respective editors and business managers.

There are also a number of salaried positions on both publications for qualified individuals. Applications for these positions are filed with the Dean of Men or the Dean of Women at certain announced times. The Campus Affairs Committee, in consultation with the faculty advisers, is responsible for the selection of salaried staff members and for the overall management of the publications.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre serves both the University and the community by promoting the cultural and entertainment values which the legitimate theatre provides through participation of audience and performers. Production details of the presentation of four plays annually are managed, under faculty supervision, by students enrolled in courses in the School of Dramatic Art and Speech. Casts are chosen at public tryouts open to all students. In addition to the regular program of plays, a musical comedy is produced each year in cooperation with the School of Music and the Fine Arts Council.

THE UNIVERSITY PLAYSHOP. The University Playshop is an experimental producing group comprised principally of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in Playshop productions are open to all students in the University. Bills of one-act plays and new scripts are presented from time to time during the academic year. Playshop also produces the "Great Play" series. Each year two full-length plays are given as a part of a four-year cycle designed to be representative of each of eight periods in the history of drama from the classical Greek and Roman to the American Theatre of the early nineteen hundreds.

THE OHIO VALLEY SUMMER THEATRE. The summer theatre, a joint project of the University and the Community of Athens, produces five or more plays each season and provides an opportunity for some 20 to 30 selected students to work and study full time in the theatre. Faculty members and townspeople work together with students in all phases of production.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Numerous opportunities for participation are provided by an extensive program of local practice debates, together with frequent intercollegiate debates both in tournaments and before audiences.

FIRST-YEAR DEBATE. First-year debate is open to freshmen and to upperclassmen who have not had previous experience in intercollegiate debate. Discussion meetings and practice debates are held on the question and selected teams take part in an intercollegiate first-year debate tournament.

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.

RADIO STATION "WOUI"—AM and FM. Ohio University maintains a laboratory station, WOUI-AM, which operates on the "carrier current" or "wired wireless" principle and covers the campus and the immediately surrounding area with programs of particular interest to students.

WOUI-FM, the University's non-commercial, educational, frequency modulation station with a power of ten watts, provides radio students with practical laboratory experience in all aspects of broadcasting. Most of the responsibility for the operation of the station and the preparation

and production of its programs is in the hands of advanced students who work under close faculty supervision. In addition to the regular schedule, special events such as football games, lectures, and musical programs are broadcast by remote control. The station serves the campus, the city of Athens, and the immediately surrounding territory.

MUSIC ORGANIZATIONS

Membership with credit is open to all qualified men and women of the various schools and colleges of the University.

THE UNIVERSITY CHORUS. A large chorus of mixed voices which performs works from the standard choral repertoire. The Concert Choir, an organization of 30 singers, is selected from the membership of the University Chorus.

THE UNIVERSITY MEN'S GLEE CLUB. Among the activities of the club are several concerts each year on the campus and participation in various traditional events. Occasional tours and radio broadcasts are scheduled.

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 BANDS. The University Bands are composed of three musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians; the Varsity Band, which serves as a recreational-laboratory group; and the football Marching Band, which is composed of all members of the Symphonic Band in addition to selected players from the Varsity Band.

THE UNIVERSITY SYMPHONY ORCHESTRA. At present the orchestra has a complete, well-balanced instrumentation of seventy. Several concerts, using the standard symphonic repertoire, are given on the campus during the year and trips to near-by cities are occasionally made. Membership, either with credit or as an extracurricular activity, is open to all qualified men and women of the various schools and colleges of the University.

RELIGIOUS ORGANIZATIONS

YWCA. The Y.W.C.A. is the campus religious organization for women. Its program includes social service activities in the Children's Home, State Hospital for the Insane, mining centers in Athens County, Salvation Army, Red Cross, and for shut-ins in Athens. A Newcomers Party for Freshmen women, regular monthly meetings and social functions are also a part of the program.

Under the direction of the Y.W.C.A. the pledges of the Greek-letter sororities participate in an annual original theatrical production which

is known as "The Prep Follies." The income from the production is used in support of the Y.W.C.A. program.

YMCA. The Y.M.C.A. provides an all-campus religious activity for men. It includes a broad program of religious, social, and service functions. Bull sessions, personal counseling, and worship services are integral parts of the Y.M.C.A. schedule.

The religious welfare and interests of students are fostered by various organizations sponsored by the churches of Athens or church-affiliated groups. See "Religious Societies" on page 50.

CAMPUS RELIGIOUS COUNCIL. Representatives of the religious organizations constitute the Campus Religious Council. This council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an interfaith nature upon the campus. The council is composed of the adult advisers and two student representatives from each group.

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES*

(Organizations conferring membership in recognition of achievement in some broad field of education.)

TAU KAPPA ALPHA. Founded at Indianapolis, Indiana, in 1908 and established at Ohio University in 1916. A society for the recognition of scholastic attainment in the field of forensics. Membership is open to students who meet the scholarship requirements, who are of junior or senior rank, and who have for two years participated creditably in the forensic program of the University.

KAPPA DELTA PI. Founded at the University of Illinois, Urbana, Illinois, in 1911 and established at Ohio University in 1923. A society for the recognition of high scholastic attainment. Membership is open to students who plan to teach or engage in other types of educational service.

PHI BETA KAPPA. Founded at the College of William and Mary, Williamsburg, Virginia, in 1776 and established at Ohio University in 1929. A society for the recognition of high scholastic attainment. Membership is open to students who meet the scholarship requirements and who have done at least seventy-five per cent of their work in courses which the fraternity regards as nonprofessional and nonvocational.

KAPPA TAU ALPHA. Founded at the University of Missouri, Columbia, Missouri, in 1910 and established at Ohio University in 1929. 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.

*Listed in the order of establishment at Ohio University.

EPSILON PI TAU. Founded at Ohio State University, Columbus, Ohio, in 1929 and established at Ohio University in 1934. A society for the recognition of high scholastic attainment. Membership is open to students who meet the scholastic requirements in the field of industrial arts education and in their general university work. A student cannot become eligible for membership before the second semester of his junior year.

PHI ETA SIGMA. Founded at the University of Illinois in 1923 and established at Ohio University in 1936. A society for the encouragement and recognition of high scholastic attainment on the part of men of the freshman class.

MORTAR BOARD. Founded at Syracuse, New York, in 1918 and established at Ohio University as Cresset Chapter in 1938. A society for the recognition of senior women who have been outstanding for service, scholarship, and leadership.

ALPHA LAMBDA DELTA. Founded at the University of Illinois in 1924 and established at Ohio University in 1941. A society for the encouragement and recognition of high scholastic attainment on the part of women of the freshman class. Election may be on the basis of the scholarship record of the first semester, or for the average of the entire freshman year.

BETA GAMMA SIGMA. Founded in 1913 by consolidating three local honorary clubs functioning at the universities of California, Illinois, and Wisconsin. Established at Ohio University in 1951. An association to encourage and reward high scholarship and accomplishment at recognized collegiate schools of business. Membership is open to those who meet high scholastic and other constitutional requirements.

OMICRON DELTA KAPPA. Founded at Washington and Lee, Lexington, Virginia, in 1914 and established at Ohio University as Torch Circle in 1951. A society for the recognition of junior and senior men who have been outstanding for service, scholarship, and leadership.

TAU BETA PI. Founded at Lehigh University, South Bethlehem, Pa., in 1885 and established at Ohio University in 1953. A society for the recognition of distinguished scholarship, exemplary character, and leadership qualities on the part of undergraduates in engineering. Membership is open to engineering students of junior and senior rank.

NATIONAL PROFESSIONAL, RECOGNITION, OR DEPARTMENTAL SOCIETIES

(Organizations conferring membership in recognition of achievements in specific fields of education or service.)

Accounting (men and women) -----	BETA ALPHA PSI
Band (men and women) -----	KAPPA KAPPA PSI
Band (women) -----	TAU BETA SIGMA
Campus Service (men) -----	ALPHA PHI OMEGA
Campus Leadership (women) -----	CHIMES

Campus Leadership (men) -----	J CLUB
Classical Languages (men and women) -----	ETA SIGMA PHI
Commerce (men) -----	DELTA SIGMA PI
Dramatics (men and women) -----	NATIONAL COLLEGIATE PLAYERS
Education -----	FUTURE TEACHERS OF AMERICA
Engineering (men) -----	AMERICAN SOCIETY OF CIVIL ENGINEERS
Engineering (men) -----	AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
Engineering (men) -----	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
Engineering (men) -----	OHIO SOCIETY OF PROFESSIONAL ENGINEERS
Fraternities (men) -----	BLUE KEY
Home Economics (women) -----	PHI UPSILON OMICRON
Industrial Arts (men) -----	EPSILON PI TAU
Journalism (women) -----	THETA SIGMA PHI
Journalism (women) -----	SIGMA DELTA CHI
Management -----	SOCIETY FOR THE ADVANCEMENT OF MANAGEMENT
Military (men) -----	ARNOLD AIR SOCIETY
Military (men) -----	PERSHING RIFLES
Military (men) -----	SCABBARD AND BLADE
Music (women) -----	SIGMA ALPHA IOTA
Music (men) -----	PHI MU ALPHA
Painting and Allied Arts (men and women) -----	DELTA PHI DELTA
Photography (men and women) -----	KAPPA ALPHA MU
Physics (men) -----	AMERICAN INSTITUTE OF PHYSICS
Psychology (men and women) -----	PSI CHI
Radio -----	INSTITUTE OF RADIO ENGINEERS
Sociology (men and women) -----	ALPHA KAPPA DELTA

SPECIAL INTEREST SOCIETIES

(Departmental organizations not affiliated with national groups)

ALPHA OMEGA UPSILON (Agriculture)	FOOTLIGHTERS
ANTI-DISCRIMINATION LEAGUE	HOME ECONOMICS CLUB
ARCHITECTURAL SOCIETY	INDUSTRIAL ARTS CLUB
BAND CLUB	INTERNATIONAL CLUB
BOTANY CLUB	LE CERCLE FRANCAIS
CAMERA CLUB	MATHEMATICS CLUB
CHEMICAL SOCIETY	OLYMPUS CLUB
CHESS CLUB	RIFLE CLUB (men)
CHILDHOOD EDUCATION CLUB	RIFLE CLUB (women)
CHI RHO BETA (Radio)	SAMOVAR (Russian)
COMMAND SQUADRON (Military)	SCRIBES
DANCE CLUB (women)	SECRETARIAL CLUB
DER DEUTSCHE VEREIN	SOCIOLOGY CLUB
DOLPHIN CLUB	TABLE TENNIS CLUB
EARTH SCIENCE CLUB	TENNIS CLUB
FENCING CLUB	VARSITY "O" (men)
FINNETTES	VARSITY "O" (women)
FLYING "O"	WOMEN'S RECREATION ASSOCIATION
	YOUNG REPUBLICANS CLUB, O.U.

RELIGIOUS SOCIETIES

(Organizations sponsored by Athens churches or church-affiliated groups. All are social as well as religious in character and activities.)

CAMPUS RELIGIOUS COUNCIL (representatives of all religious groups)
 CANTERBURY CLUB (Episcopal men and women)
 CHRISTIAN SCIENCE CLUB (men and women)
 DISCIPLES FOUNDATION (Christian Church men and women)
 HILLEL FOUNDATION (Jewish men and women)
 KAPPA BETA (Christian Church women)
 KAPPA PHI (Methodist women)
 LUTHERAN STUDENT ASSOCIATION (men and women)
 NEWMAN CLUB (Catholic men and women)
 PHI CHI DELTA (Presbyterian women)
 SIGMA THETA EPSILON (Methodist men)
 WESLEY FOUNDATION (Methodist men and women)
 WESLEY PLAYERS (Methodist men and women)
 WESTMINSTER FELLOWSHIP (Presbyterian men and women)

SOCIAL FRATERNITIES

(Self-perpetuating groups which organize the social life of their members as a contributing factor to their educational program. Membership is upon invitation only.)

INTERFRATERNITY COUNCIL (MEN)*

BETA THETA PI (1839) †—Beta Kappa Chapter, 1841
 DELTA TAU DELTA (1859)—Beta Chapter, 1862
 PHI DELTA THETA (1848)—Ohio Gamma Chapter, 1868
 PHI KAPPA TAU (1906)—Beta Chapter, 1909
 LAMBDA CHI ALPHA (1909)—Alpha Omega Chapter, 1918 (inactive 1937-1950)
 THETA CHI (1856)—Alpha Tau Chapter, 1925
 TAU KAPPA EPSILON (1899)—Alpha Beta Chapter, 1927
 PHI KAPPA (1889)—Psi Chapter, 1929
 PI KAPPA ALPHA (1868)—Gamma Omicron Chapter, 1930
 PHI EPSILON PI (1904)—Alpha Rho Chapter, 1933
 PHI SIGMA DELTA (1910)—Alpha Delta Chapter, 1948
 ACACIA (1904)—Ohio Trowel Chapter, 1949
 SIGMA CHI (1855)—Delta Pi Chapter, 1949
 ALPHA PHI ALPHA (1906)—Phi Chapter, 1950 (Inactive)
 ALPHA KAPPA LAMBDA (1914)—Nu Chapter, 1951
 SIGMA NU (1869)—Zeta Mu, 1951
 SIGMA ALPHA EPSILON (1856)—Ohio Gamma Chapter, 1953
 CHI DELTA TAU (local), 1953
 PHI KAPPA SIGMA (1850)—Beta Zeta Chapter, 1953

*Listed in order of establishment at Ohio University.

†Year of founding of national organization.

The office of the Dean of Men encourages the formation of groups looking to local fraternity status and, later, national affiliation. In order to see that groups are properly organized, it is necessary that they discuss their aims and purposes with the office of the Dean of Men at the *inception* of their organization.

PANHELLENIC COUNCIL (WOMEN)*

PI BETA PHI (1867) †—Ohio Alpha Chapter, 1889
 ALPHA GAMMA DELTA (1904)—Zeta Chapter, 1908
 ALPHA XI DELTA (1893)—Pi Chapter, 1911
 CHI OMEGA (1895)—Tau Alpha Chapter, 1913
 ALPHA DELTA PI (1851)—Xi Chapter, 1914
 ZETA TAU ALPHA (1898)—Alpha Pi Chapter, 1922
 PHI MU (1852)—Delta Delta Chapter, 1927
 PHI SIGMA SIGMA (1913)—Beta Delta Chapter, 1941 (Inactive)
 SIGMA KAPPA (1874)—Beta Upsilon Chapter, 1949
 ALPHA EPSILON PHI (1909)—Alpha Phi Chapter, 1951
 ALPHA THETA (local), 1953

INDEPENDENT GROUPS

(Organizations for students not affiliated with Greek-letter social groups.)

MEN'S INDEPENDENT ASSOCIATION, 1938
 WOMEN'S INDEPENDENT ASSOCIATION, 1946

STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

CAMPUS AFFAIRS COMMITTEE	EAST GREEN COUNCIL
MEN'S UNION PLANNING BOARD	HOWARD HOUSE COUNCIL
WOMEN'S LEAGUE	LINDLEY HOUSE COUNCIL
STUDENT COUNCIL	SCOTT QUADRANGLE
INTERFRATERNITY COUNCIL	SENIOR CLASS
INTER-DORM COUNCIL	JUNIOR CLASS
BOYD HOUSE COUNCIL	SOPHOMORE CLASS
BRYAN HOUSE COUNCIL	FRESHMAN CLASS
O. U. CENTER HOUSE COUNCIL	

*Listed in order of establishment at Ohio University.
 †Year of founding of national organization.

UNIVERSITY REGULATIONS

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UNIVERSITY REGULATIONS

ADMISSIONS

GENERAL ADMISSION INFORMATION. All correspondence pertaining to the admission of a student to the University should be addressed to the Director of Admissions and University Examiner, Ohio University, Athens, Ohio.

Students are accepted for admission to the University for the second semester which begins in February as well as for the fall and summer sessions.

Application for admission consists of the presentation of an application blank filled in by the applicant, official transcripts of all high school or college credit, two small photographs of the applicant, a vaccination blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician. These documents when submitted become the permanent property of the University and are never returned to the applicant.

The application blank for admission and the transcript of high school record can be sent in anytime after the completion of the junior year and the applicant then will be given tentative approval of acceptance or denial. If the applicant is transferring from another university, he must request the registrar of that university to forward an official transcript of college record direct to the Director of Admissions, Ohio University.

It is important to get all entrance credentials to the Director of Admissions early enough so that the applicant can be informed concerning his admission and the opening of the session in which applicant wishes to enter. If accepted, the applicant will be forwarded information which he will need for registration at the University.

SUBJECTS IN HIGH SCHOOL. As Ohio University accepts graduates of first-grade high schools in Ohio, no particular pattern of high school subjects is required for admission. However, since prospective students frequently ask what subjects they should take in high school, the following is suggested as a reasonable minimum distribution of subjects which meets the specific University College requirements in so far as it is possible to do so in high school and prepares the student for the pursuit of any curriculum in the University:

English	3 or 4 units
Foreign language	2 units
Social sciences	2 units
(One of which should be United States history and civics.)	

Laboratory sciences	2 units
(Biology, botany, zoology, chemistry, or physics preferred. General science and senior science do not meet University College requirements.)	
Algebra	1 unit
Plane geometry	1 unit
(Prospective engineering students should take advanced algebra and solid geometry.)	
Electives	4 or 5 units
Total	16 units

THE TESTING PROGRAM. A student entering Ohio University for the first time pays the testing fee of \$1 to cover the expense of the testing program.

Each new student is required to take the college ability test. A notice of the date, place and hour is included in his admission credentials. A student who fails to take the college ability test at the appointed time, or who applies too late to take the test at the appointed time is required to take the test at a later date and to pay an additional \$1 as a penalty for not taking it at the regular time. A student transferring to Ohio University from another college is not required to take the test if he has had the Ohio State Psychological Examination or American Council Examination at that college and the record of the test is on the transcript of his record from the other college.

In addition to the college ability test, an English placement test, a reading examination and a mathematics achievement test are administered to all freshmen. Additional information regarding the testing programs is given under the heading "Testing and Vocational Counseling Service," page 20.

RESIDENTS AND NON-RESIDENTS OF OHIO. The admission regulations and the general registration fee for non-residents of the State of Ohio are higher than for residents of the state. A person is entitled to register as a resident of Ohio, who, at the time of first enrollment in the University, has been a resident of the State of Ohio for 12 consecutive months next preceding the date of his original enrollment. No person is considered to have gained or lost 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 is considered to have gained or lost legal residence in this state for such purposes while a student in the University according to changes of legal residence of such other persons, except that such legal residence is not considered to be so gained until 12 months after such persons become legal residents of this state.

The residence of minors follows 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 is not considered to be established in the State of Ohio until the expiration of 12 months after such appointment.

APPLICANTS FROM OHIO. All residents of Ohio who are graduates of approved high schools are eligible for admission to the University. However, an applicant who ranks in the lowest fifth of his graduating class is admitted *on warning* which restricts the student to a limited load his first semester and limits his participation in extracurricular activities. His program will be determined in conference with his faculty counselor on the basis of his high school record and test scores. Upon satisfactory completion of the first semester, he may then pursue a normal program of studies.

An applicant who has completed 15 units of acceptable subjects in an accredited high school and is recommended for admission by his high school principal may be admitted to the University in accordance with the regulations stated above, even though he has not been graduated from high school. High grades are a prerequisite.

Ohio University recognizes the General Educational Development Tests and will admit a veteran who receives a diploma from an accredited Ohio high school on the basis of these tests. However, the applicant may be accepted only for the two-year program if his test scores are low.

Any applicant, a resident of Ohio, who has attended another university or college and who desires to transfer to Ohio University is considered for admission if he has a 2.0 average on the basis of all hours earned, and if he is eligible for good standing at Ohio University.

APPLICANTS FROM OUT OF THE STATE. An application from an out-of-state student is considered if the applicant ranks in the upper half of his graduating class in an approved high school and qualifies for admission to the state university of his state.

A veteran who ranks above the 50 centile on the General Educational Development Tests (High School Level) may be considered for admission.

A transfer student from out of the state who makes application for admission to any college of the University is considered for admission if he has a 2.0 average (on the Ohio University grade-point system) on all hours earned in all of his previous college work, and if he is eligible for good standing at Ohio University.

An applicant for admission to Ohio University, whether applying directly from high school or as a transfer, must be eligible to enter his own state university.

GRADUATE STUDENTS. For admission to the Graduate College, see page 160.

TRANSFER FROM ANOTHER GRADUATE COLLEGE. An applicant for admission to the Graduate College of Ohio University who has attended

a graduate college elsewhere must have a 3.0 average on all graduate courses attempted. For acceptance of credits see catalog page 161 under "Credit and Residence."

SPECIAL PART-TIME STUDENTS. A person who has completed a minimum of 15 units of high school credit or is 21 years of age or over and not working toward a degree at Ohio University may register as a part-time special student to carry a maximum of six semester hours a semester without clearing through the Admissions Office. However, a student is not permitted to retain this special status after he has accumulated 32 semester hours at Ohio University or its Branches; or is within 32 semester hours of having sufficient credit for a degree or a diploma.

ADVANCED STANDING EXAMINATIONS. Application for advanced standing examination is made with the Director of Admissions and University Examiner for any course listed in the current catalog in which the student desires credit without taking the course in class, provided the course lends itself to an examination. An advanced standing examination may not be taken to alter a grade earned at Ohio University. The application must be approved by the chairman of the department and the dean of the college in which the student is classified. 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.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a scholastic average of 2.0. If a student who is enrolled for 6 semester hours and who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record and is computed in the grade-point average.

CREDIT EARNED DURING MILITARY SERVICE. A student in military service may receive college credit for college courses completed through the United States Armed Forces Institute when end-of-the-course examinations are passed or when courses are taken in correspondence with accredited colleges.

For training completed by veterans in training units other than those offered in the colleges, the recommendations made for college credit by the American Council on Education are followed in most cases.

A student who has covered the subject matter in certain fields (for example: mathematics, physics, meteorology) during his training period may receive credit in the courses by presenting evidence of having had the courses and by passing satisfactory examinations in the subjects.

CREDIT FOR MILITARY SERVICE. A maximum of 8 semester hours of college credit for basic military training, or 16 semester hours for officer's training with commission will be awarded to a student who, after completing his military service, enrolls in the University. This credit is

granted when the student presents a certified or photostatic copy of his separation papers showing honorable discharge and a minimum of 90 days of service. A deduction in the amount of credit allowed is made for those students who received high school credit for military service or who have had R.O.T.C. credit in college. Since January 1, 1950, the Separation Qualification Record has been DD Form 214. Before that date the Army used WDAGO Form 100; the Navy, Form 553; and the Coast Guard, Form 305.

FEES AND DEPOSITS

Official enrollment is completed upon the payment of the fees assessed, and a student is not considered to have registered in the University until all fees have been paid in full. Fees are payable at the office of the Treasurer at registration time. Checks and money orders will be acceptable if they are made payable to OHIO UNIVERSITY for the exact amount due. Postdated checks will not be accepted.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary before the appearance of the next catalog.

The discharge of all financial obligations to the University is a prerequisite to graduation and the granting of a degree.

REGISTRATION FEES	Resident	Non-
The Semester:	of Ohio*	Resident
Normal Load: (12 to 17 semester hours, inclusive; 12 to 19 semester hours, inclusive, for student enrolled in College of Applied Science for an engineering degree)		
General registration fee	\$67.50	\$172.50
Student activity fee	7.50	7.50
O.U. Center fee	5.00	5.00
Health fee	7.50	7.50
Library fee	1.00	1.00
Semester total	\$88.50	\$193.50
Excess Load:		
General registration fee for each semester hour in excess of normal load	\$4.00	\$12.00
Part-time Load:		
1 to 6 semester hours, inclusive (only the gen- eral registration fee is assessed) for each se- mester hour	\$6.00	\$15.00
Above 6 semester hours (Activity, Center, Health, and Library fees as above are charg- ed), general registration fee for each semester hour, total not to exceed fee for normal load ..	\$6.00	\$15.00

*See statement defining legal residence on page 55.

Auditors:

Fees in full as above

The Summer Session:

Fees for each term are proportionate amounts of the semester fees. See Summer Session Bulletin for details.

Correspondence Study:

Registration fee, each semester hour ----- \$7.50 \$8.50

Off-Campus Extension Class:

Registration fee, each semester hour ----- \$7.00 \$8.00

The per hour fee is increased if a class is organized with an enrollment below the required quota.

LABORATORY FEES. Laboratory fees are indicated in the course descriptions, and are assessed at registration.

MUSIC FEES. Additional fees for private instruction in music are indicated in the course descriptions and are assessed at registration.

MISCELLANEOUS FEES

Bureau of Appointments, renewal of registration -----	2.00
Certificate of Completion -----	2.50
Change of College -----	1.00
Course Change Order -----	1.00
Entrance Tests, when not taken at the designated time -----	1.00
Duplicate Fee Card -----	.75
English Proficiency Test, when not taken at the scheduled time --	2.00
Examination for advanced standing, each semester hour -----	2.00
Grade Report -----	.25
Grade Report Book -----	1.00
Graduation—	
Application for degree -----	10.00
Application for Associate in Arts diploma -----	5.00
Re-application -----	2.00
Penalty for late application -----	5.00
Diploma mailing fee for those absent from commencement ---	2.00
Late counseling or advising -----	1.00
Late registration or late payment of fees—	
Each day late -----	1.00
Graduate students taking work on a conference basis, each week late -----	1.00
Maximum penalty for any session -----	5.00
R.O.T.C. Deposit Fee -----	30.00
Testing Fee, for all entering undergraduate students -----	1.00
Thesis Abstract Printing -----	3.00
Thesis Binding, each copy -----	2.00
Transcript of record, after first transcript request -----	1.00
Transcript of record, each copy after the first copy of a group request -----	.50
Vocational Counseling Fee for students and prospective students--	5.00

REFUND OF FEES. Voluntary and official withdrawal from the University entitles the student to a refund of a part of the fees according to the following schedule: 90% within the first and second weeks of a semester, 60% within the third and fourth weeks, and 25% within the fifth and sixth weeks.

A week is interpreted to mean a calendar week and ends at noon on Saturday. A refund is made on the student activity fee on the same basis as the other fees, provided the student relinquishes his photo-athletic card. The refund is made 30 days after the official withdrawal of the student from the University, provided the student is not indebted to the University.

If a student withdraws from the University before he pays his registration fees or before he completes the payment of his registration fees, he is considered indebted to the University for the amount determined according to the refund regulations.

When a student withdraws from a laboratory course by change order, a refund of the laboratory fee is made 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.

No refund is made for less than \$1.

EXPENSE ESTIMATE

The following is an estimate of expenses for one eighteen-week semester at Ohio University:

General registration fee* -----	\$ 67.50
Student activity fee -----	7.50
Health fee -----	7.50
O.U. Center fee -----	5.00
Library fee -----	1.00
Rent of room in dormitory (average rental) --	76.50
Board in dormitory -----	189.00
	<hr/>
Total for semester	\$354.00

All of the above expenses are fixed in nature and amount. The estimate does not include the cost of laboratory fees and books, which varies with the curriculum being pursued and amounts to around \$35 a semester for the average student.

The real differences in the costs of attending the University are to be found in such personal maintenance expenditures as those for laundry, clothes, recreation, and other incidentals. These may vary greatly and are determined by the individual's tastes and interests and the amount of his resources.

The University does not make provision for handling student accounts, this service being available through local banks.

*The registration fee for a student who is not a resident of Ohio is increased by the nonresident fee. See "Fees and Deposits," page 58.

REGISTRATION

Details concerning the registration procedure are given in the schedule of classes which is obtained at the office of the Registrar before each registration.

PERMITS TO REGISTER. A permit to register which shows the hour and place for advising and registration must be obtained for each registration. A student enrolled in the University obtains his permit in accordance with regulations announced by the Registrar.

A former student obtains a permit to register by calling at the office of the Registrar or by making his request by mail about a month before the opening of the session he wishes to attend.

A new student receives his permit to register by mail with other admission material.

STUDENT LOAD. A student's normal registration load for a semester is from 12 to 17 semester hours, inclusive, with the exception of an engineering student whose normal load may total 19 semester hours.

Permission to carry more than the normal load is obtained from the dean of the college in which the student is enrolled.

A student may carry less than a normal load. The load a freshman is expected to carry is explained in the "University College" section of the catalog.

AUDITING PRIVILEGE. At the time he is advised a student may receive permission to audit courses as part of his load. The courses must be marked "Audit" on the schedule and registration cards. The fee for auditing is the same as for credit. Subsequent to registration, changes from audit to credit or from credit to audit are made by change order.

REGISTRATION OF AUTOMOBILES. All students operating automobiles while in attendance at Ohio University are required to register them with the office of the Dean of Men. Cars should be registered during the registration process in the Library. Any car brought to Athens after Registration Week must be registered within twenty-four (24) hours at the office of the Dean of Men. Failure to comply with this regulation will result in a fine of five dollars (\$5).

CLASSIFICATION OF STUDENTS. A student who has been regularly admitted to the University and who expects to pursue a degree or a diploma course is classified according to the number of semester hours completed and given rank as follows: Freshman, 0-24; Sophomore, 25-54; Junior, 55-86; and Senior, 87 and over.

All other students are unclassified. If an unclassified student has completed 24 or fewer semester hours, he enrolls as a special student in the University College; if he has completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has

made up high school credit deficiencies or is regularly admitted to a degree or diploma course.

A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

CHANGE ORDERS. When a student finds it necessary to add a course, withdraw from a course, or correct his registration, he requests a change order in the office of the dean of the college in which he is enrolled. The order does not go into effect until it has been presented to and accepted by the office of the Registrar.

Change orders that involve the addition of a course after the close of the third week of the semester cannot be approved.

When a student withdraws from a course by change order his grade is recorded W; and the instructor destroys the class card on receipt of a notice from the Registrar.

A course cannot be dropped by change order after the close of the eighth week of the semester, or in the case of a course that has a late starting date, one week after the starting date.

The following procedure is authorized for making a change order: The student secures a change order form in the dean's office, and, then the student consults the designated departmental representative or the instructor of each course being dropped or added. If the departmental representative or the instructor approves the change, he signs the change order form. If the change is not approved, the reason may be indicated on the change order form or in a separate communication to the dean. The change order form is returned to the dean of the college in which the student is enrolled for approval. After securing the dean's approval, the student deposits the change order form in the office of the Registrar and pays the change order fee of \$1 if it was assessed by the dean.

Changes correcting mechanical errors in registration during the first week of classes may be approved by the dean of the college following approval of the departmental representative.

Exceptions to the above regulations are made only with the approval of the Executive Committee.

The dates marking the close of each period mentioned are shown in the calendar.

CHANGE OF ADDRESS. A student is responsible for any university office communication sent to him at the last address reported to the office of the Registrar. Forms for reporting a change of home or Athens address are available in the Registrar's office.

CHANGE OF COLLEGE. Application for transfer from one degree college to another is made in the office of the dean of the college in which the student is enrolled and should be made before registration. The change goes into effect when the application, signed by the two deans concerned, has been presented to the Registrar and the transfer fee, \$1, has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

WITHDRAWAL FROM THE UNIVERSITY. Application is made on a withdrawal form obtained in the office of the dean of the college in which the student is registered. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the Registrar who grants an official withdrawal after it has been determined that all obligations to the University have been met. A refund of registration fees is made according to regulations under "Fees and Deposits."

When a student withdraws from the University during the first eight weeks of the semester his grade is recorded W; and on receipt of notice from the Registrar, the instructor destroys the class card. When a student withdraws from the University following the close of the eighth week of a semester his grade in each course is recorded WP if he is passing or WF if failing at the time of withdrawal.

A student who leaves the University without obtaining an official withdrawal is not permitted a refund of fees and is given F in all courses.

CREDIT. All 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. In order to receive credit, all students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule of examinations posted on the bulletin boards.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to "Honors Work Program."

SCHOLARSHIP REGULATIONS

THE GRADING SYSTEM. At the close of a session or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Grade points are assigned for each semester hour, except for hours audited, according to the following grading system:

Letter Grade	Explanation	Grade Points Per Semester Hour
A	Very high	4
B	High	3
C	Average	2
D	Passing but low	1
F	Failure	0*
I	Incomplete	**
W	Withdrawn	***
WP	Withdrawn Passing	***
WF	Withdrawn Failing	***
Cr.	Credit without grade	***

*Hours are included in total hours attempted.

**Hours are not included in total hours attempted until after the last date for making up the "I" has passed.

***Hours are not included in total hours attempted.

"W" is recorded when a student withdraws from a class or from the University during the first eight weeks of a semester. A student may not withdraw from a class after the close of the eighth week. The weeks are counted from the date marking the opening of the semester.

When a student withdraws from the University following the close of the eighth week of a semester his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" and "WF" are not included in total hours attempted. "WP" and "WF" appear on the transcript of record.

"I" is given to a student who has a relatively small part of the session's work not completed because of illness or other reason beyond his control as verified by the Dean of Men or the Dean of Women, or for some reason acceptable to the dean of the college in which he is enrolled. An "I" grade is given only if he has a passing class grade. To remove an "I" grade from his record the student may, by arrangement with the instructor, complete the work of the course within six weeks after the opening of the next semester he is in residence, or he may re-register for the course and the "I" will be canceled upon his passing the course. An extension of time for the removal of an "I" grade may be made by the dean of the college.

REPEATING A COURSE. When a course is repeated, the second grade becomes the grade in that course for graduation purposes. Both grades are used to determine scholastic average. A course may not be repeated after a more advanced course in the same field has been passed. It may not be repeated more than once, unless it has been failed on the previous repetition. A course passed may not be repeated in the semester in which the student is a candidate for graduation.

MINIMUM STANDARD FOR GRADUATION. To meet the minimum standard required for graduation from Ohio University, a student must have a 2.0 (C) average on all hours earned and, in addition, a 2.0 (C) average on all hours earned in his major or equivalent as determined





by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

SCHOLASTIC AVERAGE. Except for hours of W, WP, WF, and Cr., the entire record, including each grade in each course attempted, is used to determine probation status, eligibility for honors, and class ranking, and for all purposes where a cumulative scholastic average is requested. Hours of "I" are included after the period for making up the "I" has passed.

GRADE REPORTS

STUDENTS IN UNIVERSITY COLLEGE. At the end of the seventh and thirteenth weeks, grades for University College students are reported to the Registrar. The grades are available to the student through his counselor. The dean of the University College sends a notice of warning at the close of the seventh week to the student who has an average below 1.5, or 2.0 in case the student is on probation. At the close of the thirteenth week, a similar point average results in a notice of warning being sent to the student *and his parents*.

A final grade report is mailed to each student immediately after the close of a session.

STUDENTS IN DEGREE COLLEGES. At the end of the seventh and thirteenth weeks instructors report to the student his standing in class. His dean receives a report if he has F or low D in a course. If at the end of a session, a degree college student's cumulative average falls below 2.0 (C) but not low enough to place him on probation, a notice is sent to the student and to his parents by the dean of his college.

A final grade report is mailed to each student immediately after the close of a session.

HONORS

A student's entire record is used to determine honors.

DEAN'S LIST. The Dean's List, compiled at the close of each session, includes the names of all freshmen who have at least a 3.0 (B) average on a minimum total of 15 semester hours of credit.

HONORS DAY. The Honors Day Convocation, usually held in April, is for the purpose of honoring students who have attained a high scholastic average. The names of all undergraduates who have attained a 3.0 (B) average on a minimum total of 15 semester hours at Ohio University are listed in the Honors Day Program. Students with transferred credits who have the necessary average at Ohio University as well as on their cumulative record are also honored. Graduate students are likewise honored if they have attained at least a 3.5 (B+) average on a minimum of 12 semester hours credit earned in residence.

The student who attains these honors will have an indication of them on his record and on the transcript of his record.

PROBATION REGULATIONS

GRADE-POINT DEFICIENCY. A student whose total grade points is less than twice the number of hours attempted has a grade-point deficiency. A student's grade-point deficiency is found by taking two times the number of hours attempted minus total grade points accumulated. Thus, a student who has attempted a total of 31 semester hours and earned 48 grade points has a grade-point deficiency of 14.

At the close of each session the record of every student is reviewed. If a student's cumulative record shows a grade-point deficiency, he is subject to being placed on probation or dropped from the University. Action taken as the result of poor scholarship is indicated on the grade report which is mailed to the student. A notice is also sent by the Registrar to the student's parent or guardian. In general, action will be taken in accordance with the following regulations:

PROBATION. A student who has attempted fewer than 30 hours is placed on scholastic probation when his grade-point deficiency is greater than half the number of hours attempted. A student who has attempted 30 hours or more is placed on scholastic probation when his grade-point deficiency is greater than 15 grade points.

PROBATION REMOVED. If a student on probation has attempted a total of fewer than 30 hours and his grade-point deficiency is not greater than half the total hours attempted, probation status is removed. If a student on probation has attempted 30 hours or more and his grade-point deficiency is not greater than 15 grade points, probation status is removed.

PROBATION CONTINUED. A student who has been on probation for one session may be continued on probation for one additional session if his grade-point deficiency has not increased and he is not eligible to be removed from probation. However, at the close of this additional session he must be eligible to be removed from probation status or he will be dropped from the University.

DROPPED FROM THE UNIVERSITY. A student on probation is dropped from the University if his grade-point deficiency has increased and he is not eligible to be removed from probation status.

Any student whose grade-point deficiency at any time exceeds the number of hours attempted will be dropped from the University whether he has been on probation or not.

SPECIAL ACTION. In individual cases the Executive Committee may drop, impose probation, or grant reinstatement if the circumstances appear to justify special action.

TRANSCRIPTS

A photostat copy of a student's record is issued by the office of the Registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one copy free of charge before

graduation and one copy free of charge after graduation. A transcript requested after either of the free copies has been issued costs \$1. The transcript fee must accompany the transcript request.

When a request is made for more than one transcript at one time, the first copy may be free or cost \$1, depending upon whether the student has obtained his free copy, and the additional copies of the request cost 50 cents each. In order to avoid delay, the correct fee should accompany the request.

A transcript carries a statement of honorable dismissal except when a student has been dropped from the University because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation is granted a statement of honorable dismissal only as to character.

The same transcript fee regulations pertain to a student enrolled in the Graduate College with the following exceptions: a graduate of Ohio University who has received a free copy of his undergraduate credit after graduation is required to pay \$1 for a transcript if, as a graduate student, his first request for a transcript includes both undergraduate and graduate credit.

ABSENCES

RESPONSIBILITIES OF THE STUDENT. A student is expected to attend all meetings of his classes and all examinations. All absences are handled by the instructor concerned. To aid the instructor in keeping appropriate records, the student is responsible for presenting to him certification of absences resulting from illness or for authorized reasons immediately upon his return to class. *The student must satisfy the instructor in making up work.*

Certificate of absence due to illness: This is given by the Health Service to a student who has visited the clinic; who has been a patient in the infirmary; or who presents evidence of illness to the Health Service from a physician.

Certificate of absence for authorized reason: This is given by the Dean of Men or the Dean of Women for an absence resulting from serious illness or death in the family; wedding in the immediate family; trips in connection with authorized educational and university activities; other educational trips, appointments, meetings and approved extra-curricular activities.

No other type of certificate is available to a student.

CLASS PROBATION AND PENALTIES. At the discretion of the instructor, a student may be placed on class probation for unauthorized absences. After being placed on probation an additional unauthorized absence will result in the student receiving "F" in the course. Instructors request the Dean of Men or the Dean of Women to place the student on class probation. The dean notifies in writing the student, the Registrar, the dean of the student's college, and the instructor who made the request.

UNEXCUSED ABSENCES BEFORE AND AFTER VACATIONS. A penalty of one semester hour is added to the requirements for graduation for an unexcused absence from the student's last scheduled class preceding a vacation and his first scheduled class period following a vacation. If a student is absent from all class periods on the day immediately preceding a vacation and his last class period on the second day preceding a vacation, he is penalized two semester hours. The same penalty applies to the two days immediately following an official vacation. A total of four semester hours may, therefore, be added to an individual's graduation requirements for absences incurred at any one holiday period. Each instructor will report all absences from class on the two days preceding and following official vacation periods for the assignment of penalty absences.

INSTRUCTORS' ATTENDANCE REPORTS. The Dean of Men and Dean of Women are interested in following up irregular and excessive absences because it is often the first indication that a student is in trouble outside the classroom. Instructors will submit absence reports to the Dean of Men or the Dean of Women for students who are frequently tardy, frequently absent on any one day of the week, absent from so many meetings that academic work is affected, or absent from all meetings of a class for one week.

EXCUSE FROM FINAL EXAMINATIONS: Certification for absences from examinations for the usual authorized reasons (family emergency, etc.) is obtainable from the appropriate personnel dean, or, in case of illness, from the Health Service. Application for excuse for other reasons must be made through the academic dean and requires approval of the instructor concerned and the Executive Committee of the University.

GRADUATION

APPLICATION. A candidate for graduation must make application for graduation in the office of the Registrar not later than the dates given in the university calendar for the session in which he plans to graduate. The application fee for a degree is \$10; for the Associate in Arts diploma or a diploma in Education, \$5. Application for graduation made after the time designated adds a penalty of \$5. Payment of the diploma fee after the stated dates constitutes late application and requires the payment of the late penalty fee of \$5.

If an applicant fails to meet the requirements for graduation, he may reapply after he has fulfilled, or planned to fulfill, his requirements. In either case, reapplication is made in the office of the Registrar according to the dates given in the university calendar for the session in which he plans to graduate. The reapplication fee is \$2. The penalty fee of \$5 is added for late reapplication.

SCHOLASTIC AVERAGE FOR GRADUATION. A student is required to have a scholastic average—a point-hour ratio—of 2.0 on all hours earned. In addition, he must have a 2.0 average on all hours earned in his major or equivalent as determined by his college. For a student

with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and his Ohio University record exclusive of transferred credits.

The minimum number of semester hours required is increased by the number of hours received as a penalty for excess absences before or after a holiday vacation, by the number of hours of repeated subjects, by the number of hours in courses not allowed toward a degree by catalog designation or by the dean of the college, and may be increased by the number of semester hours earned in excess of 4 semester hours credit in physical activity courses. Candidates for the degree in engineering must earn 140 semester hours and in addition complete the physical education requirement.

A student who fails to graduate because of a grade-point deficiency may take, with approval of his dean, up to a maximum of 6 semester hours of work in correspondence, extension, or Branches of Ohio University to make up his deficiency.

PROFICIENCY IN ENGLISH. As a condition of graduation from Ohio University, every student must demonstrate his ability to write clear and correct English. Three composition courses at the freshman level, English 1, 3, and 4, are designed to assist the student in developing this ability. On entering the University, freshmen are given a placement test in English. Those who show a weakness in the elements of grammar and sentence structure are required to take English 1 without credit toward graduation.

A degree student who failed to make a grade of A or B in English 4 is required to take the English proficiency test the first time it is given after his record shows a total of 45 semester hours of credit. A student who transfers to Ohio University in his junior or senior year takes the test during his first semester in residence.

The proficiency test is offered each semester. Dates are shown in the calendar. It consists of a few paragraphs of prose, written on a subject chosen by the student from a list of subjects given to him at the test. The papers are later marked "Passed" or "Failed."

The student who fails the test will be required to repeat English 4 *during the following semester.*

The student who fails to take the proficiency test at the scheduled time will be required to take a make-up examination and pay the make-up fee.

PHYSICAL EDUCATION. Men students have a flexible requirement of one to four (1-4) semesters with credit. The number of semesters required is determined by the results of physical proficiency and sports tests which are offered near the close of each semester and summer session. After completing one semester with credit, the student may elect to try physical proficiency tests or continue to register for additional credit. Having passed testing standards prescribed by the Division of Physical Education and Athletics, the student is excused from further requirement. He may, however, elect to take additional semesters in physical education service courses.

Men classified as *veterans* of the armed forces are not held to the one semester rule and therefore may take proficiency tests on entrance to the University.

See "Service Courses" in "Courses of Instruction" for regulations governing service course credit toward the degree requirement.

EXEMPTIONS, EXCUSES, AND DEFERMENTS are allowed for both men and women as follows:

Exemption from the physical education requirement is made automatically for a graduate student, for a student who is 30 years of age or over, or for a veteran who is 25 years of age or over, provided he has completed the requirement up to and including the semester in which he attained the required age.

An excuse from the physical education requirement is granted to a permanently disabled student by the Director of Physical Education upon the recommendation of the Director of the Health Center.

Deferment—postponement for one semester—is authorized by the Director of Physical Education upon the recommendation of the Dean of Men or the Dean of Women for a student who has an excessive physical load in connection with part-time work or by the student's academic dean in cases of serious scheduling conflicts. Any student who is granted a deferment in physical education courses must complete before graduation the requirement he otherwise would have had to meet without deferment.

RESERVE OFFICERS' TRAINING CORPS. The Army and Air Force R.O.T.C. offers a two-year basic course and a two-year advanced course. Once either course is elected, completion of that course becomes a prerequisite for graduation, unless the student is relieved of this obligation by proper authority. R.O.T.C. credit does not increase the total semester hours required for graduation, provided the student utilizes his curriculum elective hours for this credit. See "R.O.T.C. Division."

RESIDENCE. In general the minimum residence requirement for a degree or a diploma course is two semesters or the equivalent in summer sessions which should total fewer than 30 weeks with the completion of a minimum of 30 semester hours. If a student spends the minimum of 30 weeks, or less than 45 weeks with the completion of 45 semester hours, in residence, the 30 weeks must be the final weeks before graduation.

If a student spends 45 weeks or more in residence with the completion of a minimum of 45 semester hours, his last residence may be reduced to 15 weeks with the completion of 15 semester hours.

If a student begins graduate study before he completes all requirements for a bachelor's degree, residence for the bachelor's degree will be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may

not be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation in absentia and is completing his last year in an accredited professional school, except that the regulations apply to his residence before he leaves the University to attend the professional school.

An exception to the final semester or final year of residence may be made in the case of a student who has otherwise met the minimum residence requirement and who has completed all but 6 semester hours, or fewer, required for a degree, provided he has a 2.0 average, or better, on hours earned at Ohio University and on his cumulative record, and on hours earned in his major or equivalent. When this occurs a student may complete the final semester hours, 6 or fewer, at another institution, or by extension or correspondence study at Ohio University.

A student who presents residence work at an Ohio University Branch toward the residence requirement is nevertheless required to spend his last 15 weeks of residence on the Athens campus with the completion of a minimum of 15 semester hours.

Saturday and evening class credit may be used to satisfy the residence requirements in combination with one semester or several summer sessions. The number of weeks' 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.

IN ABSENTIA. In absentia permission is obtained in writing from the dean of the college in which the student is enrolled. Application for graduation in absentia is made by a student in the office of the Registrar before he leaves the campus. To obtain his bachelor's degree a student who has been approved for the senior-in-absentia privilege in an approved professional school is required to present an official transcript from the school, and a statement from the dean of the school certifying that he has satisfactorily completed a full year's work with at least an average grade of C or its equivalent and is eligible for advancement without condition to the second year. The transcript and certificate must be in the office of the Director of Admissions and University Examiner two weeks before the commencement date, or an explanation must be sent to the Registrar.

A student graduating in absentia is excused from attending commencement exercises and is exempt from being in residence immediately preceding commencement in accordance with residence rules stated above.

TIME LIMIT. A student first registers for a bachelor's degree when he enrolls in a degree college, after he has been released or advanced from the University College, and 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 a 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.

GRADUATION WITH HONOR. A candidate for the bachelor's degree who is graduated with a scholastic average between 3.0 and 3.5 on all hours attempted is distinguished on the commencement program by the notation "with honor"; with 3.5 or above, by the notation "with high honor." A student with transferred credit is similarly distinguished if both his Ohio University record and his cumulative record meet the requirement.

A candidate who has successfully completed a program of study in honors work is, in addition, distinguished on the commencement program by the notation "with honors in -----," with the indication of the field in which he has achieved distinction.

HONORS WORK PROGRAM. Honors work is offered to give a superior student such freedom as will enable him to pursue the study of his chosen field as rapidly as his talents permit. Among the objectives of such work are the acquisition of knowledge of a chosen field, the integration of a knowledge of one field with that of related fields, the development of the ability to carry on independent investigation and research, the enhancement of skill in expressing in writing the results of reading or investigation, and the development of creative talents.

Students who have attained a scholarship quotient of 3.0 or better on all work attempted and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Application is made to the committee on honors work during the junior year or at the beginning of the senior year. The committee, with the approval of the student's dean and in consultation with the student's departmental chairman or director, assigns the student to the instructor who will serve as the student's tutor in honors work.

At the beginning of each semester, the student files with the committee a brief plan of his program of honors work for the semester. Near the close of the semester, he files with the committee a general statement of work accomplished and a report dealing with his reading, laboratory work, or project. At the close of the senior year, a final essay, laboratory report or completed creative project is submitted to the committee. At the end of each semester a grade for the honors work is sent to the Registrar by the tutor. A student registered for honors work who at the end of any semester has not maintained a scholarship quotient of 3.0 or who has received a grade below B in his honors work is dropped as a candidate for special honors but receives course credit.

All general requirements for the degree sought by the student will be fulfilled either before or while the student is registered in honors work. An honors student may register for from three to eight semester hours of honors work each semester as a part of his student load.

A final examination in the field studied is given before the opening of the final examination period. A student who does not secure a grade of B in the final examination is disqualified for special honors in the field but retains any credit earned by his honors work. Candidates for the degree with honors will be distinguished from other graduates in the commencement program.

COMMENCEMENT. Degrees and diplomas are granted at the end of each session. Commencement exercises are held at the end of the second semester, and at the end of the summer session. Attendance at graduation exercises is required in academic costume. Students who have been granted permission to graduate in absentia are excused from attendance; other candidates, due to unusual circumstances, may need to request absence. Application for excuse is made with the dean of the college. The application form which is filed with the Registrar includes instructions for the mailing of the diploma and carries a diploma handling charge of \$2.

A SECOND BACHELOR'S DEGREE. A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively by the following procedure:

(a) If a student desires to complete the requirements for the two degrees simultaneously and have the degrees conferred on the same date, he must meet the particular subject requirements for both degrees; earn a minimum of 154 semester hours approved for the degrees (170 for two engineering degrees) with a 2.0 scholastic average, both on Ohio University work as well as on the total hours earned, when credit has been transferred from another school; and must have completed a total of 9 semesters of college work or its equivalent, with a minimum of three semesters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges during the session in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive semesters, he may do so without further credit or residence. That is, a student may have one degree conferred at the end of one semester or summer session and may make application for the second degree at a subsequent session. If the session closes with commencement exercises, the student will be required to attend in academic costume unless his application for excuse from commencement is approved.

(c) If a student desires to take a second bachelor's degree after he has received his first, he must complete the subject requirements for the second bachelor's degree, earn a minimum of 30 acceptable semester hours beyond the requirements for the first degree with a scholastic average of 2.0, and have at least an additional semester of residence, or equivalent, in the college offering the second degree with the completion of at least 15 acceptable semester hours.

The above provisions are subject to the regulations on residence as stated in the catalog.

THE UNIVERSITY COLLEGE

RUSH ELLIOTT

DEAN

BERNARD R. BLACK

ASSISTANT DEAN

Basic preparation
for admission
to each of the
degree-granting
colleges

Two-year terminal
programs leading
to Associate in
Arts diploma

THE UNIVERSITY COLLEGE

All freshmen enroll in the University College. Thus, the College is concerned primarily with the problems of first-year students—their courses of study, and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs.

During the first week of the semester in which a student is first enrolled, designated as "Freshman Week," the University College conducts a program of orientation for freshmen. All new students are required to attend Freshman Week activities. Various tests are given to assist counselors and students in the selection of courses and educational objectives. Meetings are held during the week to help students become acquainted with the University—its history and traditions, regulations, opportunities for development, and student activities and organizations. A copy of the "Orientation and Studies in the Freshman Year" bulletin is sent to each new student prior to his enrollment in the University. It includes the program for the week, giving the exact time and place of all events scheduled.

The University College aims to provide an educational program that will best meet the individual needs of the student. No prescribed course of study is required of all. The courses in the freshman year are planned so as to provide studies that are generally recognized as most essential to the educated person. Students are advised to consider it a year of broad preparation for later specialization. General course requirements are determined so as to complement the work done in high school and to take into account the educational objective of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4.

Students who place low on the English Placement Test given all entering freshmen take Eng. 1, then complete Eng. 3-4 in their second and third semesters in the University. Credit earned in Eng. 1 is added to the requirements for graduation. Students who demonstrate superior ability on the Placement Test will be registered in an Honor Section of Eng. 3.

2. Fundamentals of Speech—Speech 1.

Students may be excused on the basis of a proficiency examination given by appointments as announced in the orientation bulletin.

3. Physical Education

For detailed statement concerning this requirement see page 69.

4. One year in each of two of the following groups (in case a student has a specific requirement due to a high school deficiency, as in Humanities and Mathematics, for instance, the courses taken to meet these two requirements also meet the *two-group requirement*, or a course taken to meet one specific requirement also is counted as meeting one of the *two-group requirement*. In other words, a course

or courses taken to meet specific requirements also apply toward the *two-group requirement* as well) :

- A. *Humanities*: (a) Foreign language; (b) Humanities 7, 8—The Great Books (see "General Studies"); (c) Fine Arts 17-18—Introduction to the Fine Arts; (d) Phil. 1—Principles of Reasoning, and Phil. 2—Life's Meaning.

Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.

- B. *Mathematics*: Math. 1—Elementary Algebra, Math. 2—Plane Geometry, Math. 3—Intermediate Algebra, Math. 5—Freshman Mathematics, Math. 6—Freshman Mathematics, Math. 9—Freshman Mathematics, Math. 34—Mathematics of Finance, and Math. 107—Elementary Statistics (taken by freshmen only following Math. 5 or 9).

Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra, and Math. 2—Plane Geometry. Students who have had one year of algebra and no plane geometry take Math. 2.

- C. *Natural Sciences*: BIOLOGICAL—Biol. 1, 2—The Living World (see "General Studies"); Bot. 3-4—General Botany; Zool. 3—Principles of Zoology, and Zool. 4—Principles of Zoology.

PHYSICAL—Astron. 11-12—Elementary Astronomy; Chem. 1-2 or 3-4—General Chemistry; Geol. 1-2—Elements of Geology; and Phys. 3, 4—The Physical World or Phys. 5, 6—Introduction to Physics.

Students with less than two full years of laboratory science in high school take a year in one science in the area in which no science was taken in high school, i.e., if Biological Science was taken in high school the requirement is in Physical Science. (High school courses such as general science and senior science are excluded). Exceptions to this requirement must be approved by the Dean of the University College.

- D. *Social Science*: Ec. 1—The Economic Development of the United States, Ec. 3—Contemporary Economic Society; Geog. 3-4—Elements of Geography; Govt. 1, 2—American Government, Govt. 6—Current Political and Social Problems; Hist. 1, 2—Western Civilization in Modern Times; Psych. 1—General Psychology, Psych. 2—Psychological Approach to Everyday Problems; Soc. Sci. 9, 10—Citizenship in the Modern World (see "General Studies"); and Soc. 1—General Sociology I: Principles, and Soc. 2—General Sociology II: Modern American Communities.

Students with less than two years in any combination of courses in social science taken in high school are required to take one year of social science.

In addition to the above listed courses, a large number of courses have been selected which a freshman student may carry on an elective basis, but which do not meet the specific requirements outlined above.

The student normally plans his schedule so as to complete the University College requirements in the freshman year. The student who has chosen the degree he wishes ultimately to receive is advised to select courses from among those offered in the four groups above that are especially recommended for the particular curriculum he expects to follow. For example, it is suggested that a student who expects to pur-

sue a program in the Arts and Sciences and who will have a requirement in language carry this language course to meet the Humanities requirement, while a student who plans to major in the Fine Arts should select Introduction to the Fine Arts to meet the Humanities requirement. The student who has not decided upon any definite course will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirements or in any one of the four groups.

GUIDANCE PROGRAM. The guidance program aims to encourage individual initiative and increasing assumption of responsibility by the students. Every student is assigned to a faculty counselor selected from the division of the University in which the student is chiefly interested. Throughout the year the student confers with his counselor: at the beginning of each semester for schedule preparation, at the time of the two grade periods each semester (end of seventh and thirteenth weeks), and at other times as he may need advice or assistance.

ADVANCEMENT TO DEGREE COLLEGE. When a student has earned 25 hours of credit, exclusive of credit for military service, and is not on academic probation, he is advanced to the degree college of his choice. Graduation from the University is subject to the fulfillment of any uncompleted University College requirements, and the student is advised to include courses to complete these requirements in his sophomore program.

REGISTRATION. All entering freshmen must register and participate in the orientation program. A copy of the complete schedule of events is mailed to each new student before registration. Announcements for registration in the second semester and summer session are made to students registered in the College directly by mail and through the student newspaper, the *Ohio University Post*.

TERMINAL PROGRAM LEADING TO ASSOCIATE IN ARTS DIPLOMA. The University College makes possible a planned program of study for students who do not intend to complete a four-year degree program or who can spend only two years in the University. Such a program leads to the Associate in Arts diploma.

The Associate in Arts program is a two-year program planned to include English composition, physical education, speech, general education courses and career courses to total 62 hours, and with a minimum of 124 grade points (a C average), and with the same grade requirements during the progress of the program as for a degree program. Diplomas are awarded at the completion of the program. Application for the diploma is made at the office of the Registrar at the time announced for all degree and diploma candidates and must be accompanied by a fee of \$5.

Curricula for terminal programs have been outlined which will furnish the student with a background which will make him employable

or prepare him for admission to a professional school. These curricula are presented in a special bulletin titled "Terminal Programs" which may be secured on request to the Director of Admissions or the Dean of the University College, Ohio University, Athens, Ohio.

The outlined curricula include programs in Agriculture; Airline Hostess Training; Commerce, including General Business or Secretarial Studies; Drafting; Home Economics; Journalism, with work in either Advertising or Radio-Speech; Medical Technology; Metal Working; Meteorology; Premortuary Science; Prepharmacy; Preveterinary Medicine; Printing; and Recreation Leadership. In addition to these curricula, other programs may be planned to meet the need of the student.

Before a student registers for such a program, he confers with his counselor, decides upon a program of study he wishes to follow and prepares an outline of the courses he will carry to complete the program. Credit earned while enrolled in a terminal program may be counted toward a four-year degree course, if he later decides to change his program, subject to the approval of the dean of the degree college in which he later enrolls. A student making such a change in his program is required to complete all University College course requirements. A student who transfers from a terminal program to a degree program may expect to spend some more time completing degree requirements than is normally necessary since some of these requirements might not have been met in the terminal program.

STUDENT HOUR LOAD FOR FRESHMEN IN UNIVERSITY COLLEGE. It is important that a university student should establish good study habits and that he should normally complete one fourth of the work required for a degree (from 31 to 36 semester hours credit) during his freshman year.

So that a student may accomplish these things and carry a load adjusted to his demonstrated ability in high school, a full-time student not admitted on warning and not on probation is required to carry a minimum load of 15 semester hours credit. The maximum load will usually not exceed 17 semester hours (18 or 19 semester hours for an engineering student).

A full-time student admitted "on warning" (see page 56) or who is on probation is required to carry a minimum load of 12 semester hours credit. The maximum load for such a student is 14 semester hours credit.

Any exceptions to the above regulations—either to carry a load in excess of the maximum or less than the minimum—must be approved by the dean of the University College.

THE COLLEGE OF APPLIED SCIENCE

E. J. TAYLOR, JR.

DEAN

Engineering

Architectural

Civil

Electrical

Engineering Drawing

Mechanical

(Including Industrial Option)

Industrial Arts

Printing Administration

THE SCHOOL OF HOME ECONOMICS

VIVIAN M. ROBERTS, DIRECTOR

Child Development and Family Living

Clothing and Textiles

Foods and Nutrition

Home Economics Education

Home Furnishing, Equipment and Management

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science offers curricula leading to the Bachelor of Science degree in the fields of engineering and home economics. Also under the supervision of the College are the non-degree departments of engineering drawing and industrial arts.

Candidates for degrees must fulfill the general graduation requirements of the University (see page 68). Candidates for degrees in Home Economics must complete a minimum of 124 semester hours, plus any physical education requirement in excess of four hours, with a point-hour ratio of 2.0 in all hours earned, and in addition a 2.0 average in hours earned in home economics courses. Candidates for degrees in engineering must complete a minimum of 140 semester hours, plus satisfaction of physical education requirements, with a point-hour ratio of 2.0 in all hours earned and a point-hour ratio of 2.0 in all engineering subjects earned. Total hours specified for any degree include the requirements of the University College.

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach industrial arts or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. Students who enroll in the College of Applied Science may complete the requirements for the degree of Bachelor of Science in Home Economics and secure a teaching certificate by satisfying the requirements in education specified by the State Department of Education for the field in which the student desires to teach. Requirements of the State Department of Education are listed under "Teaching Certificates" on page 139.

ENGINEERING

Engineering curricula accredited by the Engineers' Council for Professional Development are offered in Architectural Engineering, Civil Engineering, Electrical Engineering and Mechanical Engineering, including an Industrial Option. These curricula also have been registered by the Commissioner of Education, State of New York, as satisfying licensure requirements in that state.

All engineering faculty members are registered professional engineers, State of Ohio. New faculty members are expected to register in the State of Ohio within a year after they have been appointed to the faculty.

A four-year engineering program is necessarily limited in the time which may be devoted to study in other colleges of the University. In order to give the student some freedom in planning his course of study, most of the elective hours in the engineering curricula are unrestricted. Since a background in English, history, government, economics and human relations is essential for the engineer who hopes to go far in his profession, the student is urged to plan, in consultation with his adviser, a program in these fields. It is also recommended that the student consider the advisability of additional work so that he may have as broad an education as possible. Students who desire a less

strenuous program than is covered by many engineering students, may plan their program to take nine semesters or to attend a summer school session. Students who have any high school deficiencies to make up are urged to consider this. With proper planning a student may obtain a degree from the College of Arts and Sciences or the College of Commerce as well as a Bachelor of Science degree in an engineering field upon the completion of ten semesters at the University (see "A Second Bachelor's Degree" on page 73).

Students who intend to follow an engineering curriculum should plan to present for admission to the University those subjects which meet the area requirements of the University College, including the additional mathematics listed on page 77. Students should indicate their choice of an engineering curriculum on the official application form for admission to the University. This precaution will assure proper guidance in the University College program of study.

University College students who intend to study engineering are urged to consider a foreign language for the Humanities requirement. Opportunities for engineers who are acquainted with a foreign language are increasing.

CURRICULA IN ENGINEERING

The faculty has established basic curricula in Architectural Engineering, Civil Engineering, Electrical Engineering and Mechanical Engineering, including an Industrial Option.

A student who desires to devote special attention to a field may apply to his department chairman for approval of an optional curriculum. Such a curriculum might be the Aeronautical Structural Option under Civil Engineering. The program must contain at least 140 semester hours, plus satisfaction of physical education requirements, and may require more. The program, if approved by the department chairman and the dean, will become the student's official program for satisfaction of the requirements for his degree.

Students who are not properly prepared in high school mathematics must enroll in preparatory mathematics courses. Any mathematics course below Math. 5 will not be counted toward satisfying the requirements for a degree in engineering.

A student whose point-hour ratio is less than 2.0 for the second semester of the freshman year, or who receives a grade lower than C in the mathematics course taken during the second semester of the freshman year, is admitted to an engineering program *on warning*. Such a student remains on warning until the end of the first semester in which he achieves a cumulative point-hour ratio of 2.0 or higher.

The university requirements pertaining to English composition, physical education, the humanities, social science and speech are not indicated in the engineering curricula which follow. (See page 76.)

Restricted electives must be selected from an approved list of subjects in one of the following areas: economics, geography, government, history, human relations, philosophy, psychology and sociology. (See page 84.) Restricted electives need not necessarily be taken in the se-

mester in which they appear in the curricula. ROTC credit may be used to satisfy elective requirements in all engineering curricula.

RESTRICTED ELECTIVES. A minimum of five semester hours chosen from the following list is required for all engineers. Two numbers separated by a hyphen indicates that both courses are required. Courses taken to satisfy University College requirements are not considered as fulfilling the restricted elective requirement.

Ec. 101-102—Principles of Economics	Psych. 131—Employee Selection and Placement
Geog. 232—Conservation of Natural Resources	Psych. 133—Industrial Psychology
Geog. 250—Geography and Environment	Soc. 1—General Sociology I: Principles
Govt. 101, 102—Comparative Government	Sociology—any course numbered above one hundred
Hist. 101, 102—History of the United State	Eng. 101—Sophomore English Literature
H. R. 303—Human Relations	Eng. 102—Sophomore English Literature
H. R. 304—Human Relations	Eng. 111—The Chief American Writers
Philosophy—any course numbered above one hundred	Eng. 112—The Chief American Writers
Psych. 1—General Psychology	Sec. St. 220—Business Communications

If a student desires to take other courses to satisfy the restricted elective requirement, he must receive prior approval of his department chairman and the dean.

ELECTIVES. Any of the courses listed may be selected as free electives. ROTC courses may be used. The following courses are recommended:

Acct. 75-76—Elementary Accounting	Mgt. 301-302—Production Management
Acct. 175—Cost Accounting	Mgt. 312—Administration of Personnel
Bus. L. 255-256—Business Law	Phys. 349-350—Atomic Physics
C. E. 270—Engineering Economy	Phys. 365—Nuclear Reactor Theory and Practice
Math. 107—Elementary Statistics	Stat. 255-256—Business Statistics
Math. 304—Advanced Calculus	Speech 3—Public Speaking
Math. 330—Fourier Analysis	

Freshman Program
(For all engineers)

The University College Program should include:			
First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
E. D. 1—Engineering Drawing	2	E. D. 2—Engineering Drawing*	2
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
		Engr. 1—Engineering Orientation	1

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

The curriculum for this degree is planned to give the student a broad fundamental background in architecture and engineering. The elective hours of study may be used to increase either the engineering or architectural content of the curriculum, or to broaden it by study in other divisions of the University.

Freshman Program
(See above)

Sophomore Program

First Semester	Hours	Second Semester	Hours
Math. 101—Differential Calculus	4	Math. 102—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
E. D. 3—The Slide Rule	1	C. E. 120—Applied Mechanics	3
E. D. 101—Descriptive Geometry	3	Arch. 56—Fundamentals of Architecture	3
Arch. 55—Fundamentals of Architecture	3	Arch. 183—Architectural Equipment	3
Arch. 179—Architectural Materials	3	Elective	2
Elective	2		
	20		19

*Architectural Engineers take C. E. 10—Plane Surveying.

Junior Program

C. E. 222—Strength of Materials -----	4	C. E. 270—Engineering Economy -----	3
C. E. 230—Structural Analysis I -----	4	C. E. 330—Structural Analysis II -----	4
Arch. 155—Architectural Design -----	5	E. E. 202—Circuits and Machinery -----	3
E. E. 201—Circuits and Machinery -----	3	Arch. 156—Architectural Design -----	5
Elective -----	3	Elective -----	3
	<hr/>		<hr/>
	19		18

Senior Program

C. E. 231—Structural Design I -----	4	C. E. 225—Soil Mechanics -----	3
Bus. L. 255—Business Law -----	3	C. E. 232—Structural Design II -----	4
Arch. 284—Working Drawings -----	2	E. E. 323—Illuminating Engineering -----	3
F. A. 175—History of Architecture -----	3	F. A. 176—History of Architecture -----	3
Restricted elective -----	3	Restricted elective -----	3
Elective -----	3	Elective -----	3
	<hr/>		<hr/>
	18		19

Suggested Electives:

E. E. 325—Acoustics -----	3	Arch. 285-286—Architectural Problems	10
M. E. 221—Thermodynamics I -----	3	E. D. 102—Descriptive Geometry -----	2

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary for a broad understanding of the profession. The following fields are studied: structures and foundations, hydraulics, highway and railroad layout and construction, water supply, sanitation, and surveying. Courses which discuss the economic and legal aspects of engineering are required. Although the program is comprehensive, it allows the student elective hours of study during the last two years. By a proper choice of these electives he may extend his study of one or more of the several fields discussed above or he may pursue further the business aspects of engineering, or he may broaden himself in a more general way by a judicious selection of courses in various divisions of the University.

Freshman Program

(See page 84)

Sophomore Program

First Semester	Hours	Second Semester	Hours
Math. 101—Differential Calculus -----	4	Math. 102—Integral Calculus -----	4
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
Geol. 133—Engineering Geology -----	3	C. E. 10—Plane Surveying or	
E. D. 3—The Slide Rule -----	1	E. D. 101—Descriptive Geometry -----	3
E. D. 101—Descriptive Geometry or		C. E. 120—Applied Mechanics -----	3
C. E. 10—Plane Surveying -----	3	Restricted elective -----	3
Restricted elective -----	3	Elective -----	2
Elective -----	2		<hr/>
	<hr/>		19
	20		

Junior Program

C. E. 211—Topographic Surveying -----	2	C. E. 121—Applied Mechanics -----	3
C. E. 222—Strength of Materials -----	4	C. E. 224—Fluid Mechanics -----	3
C. E. 230—Structural Analysis I -----	4	C. E. 240—Hydraulics Laboratory -----	1
E. E. 201—Circuits and Machinery -----	3	C. E. 330—Structural Analysis II -----	4
Math. 315—Differential Equations -----	3	E. E. 202—Circuits and Machinery -----	3
Elective -----	3	Elective -----	3
	<hr/>		<hr/>
	19		17

Senior Program

C. E. 212—Route Surveying -----	2	C. E. 225—Soil Mechanics -----	3
C. E. 231—Structural Design I -----	4	C. E. 232—Structural Design II -----	4
C. E. 241—Hydrology -----	3	C. E. 250—Sanitary Engineering -----	4
C. E. 260—Route Engineering -----	3	C. E. 261—Highway Engineering -----	2
Bus. L. 255—Business Law -----	3	C. E. 270—Engineering Economy -----	3
Elective -----	3	Elective -----	3
	<hr/>		<hr/>
	18		19

General

Suggested Electives:		Astron. 11—Elementary Astronomy	---	3
C. E. 313—Advanced Surveying Problems	-----	M. E. 227—Steam Power Plants	-----	3
	2	Geog. 232—Conservation of Natural Resources	-----	3
C. E. 314—Photogrammetry	-----	Math. 330—Fourier Analysis	-----	3
M. E. 221—Thermodynamics I	-----			
E. D. 102—Descriptive Geometry	-----			2

Sanitary Engineering

Chem. 107—Quantitative Analysis	-----	4	Zool. 241—Elementary Bacteriology	---	4
Engr. 390—Special Investigations in Engineering	-----	1-3			

Structural Engineering

C. E. 326—Advanced Strength of Materials	-----	3	C. E. 327—Mechanical Vibrations	-----	3
			Math. 304—Advanced Calculus	-----	3
			Engr. 390—Special Investigations in Engineering	-----	1-3

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. A choice of electives offers a limited amount of specialization in either power engineering or communication engineering.

Freshman Program

(See page 84)

Sophomore Program

First Semester		Hours	Second Semester		Hours
Ind. A. 13—General Cold Metals	-----	3	E. D. 101—Descriptive Geometry	-----	3
Math. 101—Differential Calculus	-----	4	C. E. 120—Applied Mechanics	-----	3
Phys. 113—General Physics	-----	4	Math. 102—Integral Calculus	-----	4
E. E. 101—Fundamentals of Electrical Circuits*	-----	3	Phys. 114—General Physics	-----	4
Restricted elective	-----	3	Restricted elective	-----	3
Elective	-----	2	Elective	-----	2
		19			19

Junior Program

C. E. 121—Applied Mechanics	-----	3	C. E. 222—Strength of Materials	-----	4
E. E. 211—Electrical Engineering	-----	4	E. E. 212—Electrical Engineering	-----	4
E. E. 213—Dynamo and Measurements Laboratory	-----	3	E. E. 214—Dynamo and Measurements Laboratory	-----	3
E. E. 215—Electrical Measurements Theory	-----	2	E. E. 216—Electrical Measurements Theory	-----	2
Math. 315—Differential Equations	-----	3	M. E. 221—Thermodynamics I	-----	3
Elective	-----	3	Elective	-----	3
		18			19

Senior Program

E. E. 301—Communication Engineering	---	4	E. E. 302—Communication Engineering	---	4
E. E. 303—Electrical Engineering	---	4	E. E. 304—Electrical Engineering	---	4
E. E. 305—Electrical Engineering Laboratory	---	2	E. E. 306—Electrical Engineering Laboratory	---	2
M. E. 307—Engineering Electronics	---	3	E. E. 308—Engineering Electronics	---	3
E. E. Elective from the following:	---	3	E. E. Elective from the following:	---	3
E. E. 321—High Frequency Circuits and Electric Magnetic Radiation (3)			E. E. 322—High Frequency Circuits and Electric Magnetic Radiation (3)		
E. E. 331—Servomechanisms (3)			E. E. 332—Control of Electrical Machinery (3)		
E. E. 341—Electrical Transmission of Power (3)			E. E. 342—Symmetrical Components (3)		
Elective	-----	3	E. E. 344—Electrical Design (3)	---	3
		19	Elective	-----	3

*A short practical test in the fundamentals of electricity will be given each fall. Sophomore students who pass the test may omit this course.

Suggested Electives:

Engr. 390—Special Investigations in Engineering -----	1-3	M. E. 227—Steam Power Engineering --	3
C. E. 10—Plane Surveying -----	3	M. E. 229—Steam Power Laboratory ---	2
C. E. 224—Fluid Mechanics -----	3	E. D. 102—Descriptive Geometry -----	2
E. E. 102—Fundamentals of Radio ---	3	Ec. 309—Public Utilities -----	2 or 3
E. E. 323—Advanced Radio Laboratory -	2	Math. 304—Advanced Calculus -----	3
E. E. 325—Acoustics -----	3	Phys. 325—Mechanics Laboratory -----	1-2
E. E. 328—Illuminating Engineering --	3	Phys. 326—Heat Laboratory -----	1-2
		Phys. 329—Electronics and Electrical Measurements Laboratory -----	1-4

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The technical option in mechanical engineering emphasizes machine design and heat engineering. The work covered in the first two years is general and fundamental and parallels that in the other engineering curricula. The last two years cover comprehensive courses in the theory and design of machines and mechanical equipment, and in thermodynamics and its application to steam generators, steam engines and turbines, combustion engines, refrigeration and air conditioning. To give a well-rounded curriculum, work is included in other fields of engineering, such as fluid mechanics and electrical engineering. Limited specialization is provided for by elective courses.

The industrial option provides a fundamental engineering background as in the technical option but instead of focusing the early training on machine design and heat engineering, it emphasizes training in fields leading to careers in industrial management.

TECHNICAL OPTION

Freshman Program

(See page 84)

Sophomore Program

First Semester	Hours	Second Semester	Hours
E. D. 101—Descriptive Geometry -----	3	C. E. 120—Applied Mechanics -----	3
Ind. A. 14—General Hot Metals -----	3	Ind. A. 13—General Cold Metals -----	3
Math. 101—Differential Calculus -----	4	Math. 102—Integral Calculus -----	4
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
Restricted elective -----	3	E. D. 3—The Slide Rule -----	1
Elective -----	2	Restricted elective -----	3
	19	Elective -----	2
			20

Junior Program

C. E. 121—Applied Mechanics -----	3	C. E. 222—Strength of Materials -----	4
E. E. 201—Circuits and Machinery ---	3	E. E. 202—Circuits and Machinery ---	3
M. E. 113—Metal Processing -----	2	Math. 315—Differential Equations ---	3
M. E. 201—Kinematics -----	3	M. E. 222—Thermodynamics II -----	3
M. E. 211—Engineering Metallurgy ---	3	M. E. 302—Dynamics of Machinery ---	3
M. E. 221—Thermodynamics I -----	3	Elective -----	3
Elective -----	3		19
	20		

Senior Program

C. E. 224—Fluid Mechanics -----	3	Engr. 391—Seminar -----	1
E. E. 207—Engineering Electronics ---	3	M. E. 229—Steam Power Laboratory ---	2
M. E. 227—Steam Power Plants -----	3	M. E. 304—Machine Design II -----	3
M. E. 303—Machine Design I -----	3	M. E. 312—Internal Combustion Engines -----	4
M. E. 311—Air Conditioning and Refrigeration -----	3	M. E. 314—Heat Transfer -----	3
Elective -----	3	Elective -----	3
	18	Elective from Group A -----	2 or 3
			18 or 19

Group A Electives:

Sec. St. 220—Business Communications -----	3
Speech 3—Public Speaking -----	2
Humanities 7 or any English course numbered above 100.	

INDUSTRIAL OPTION

Freshman Program

(See page 34)

Sophomore Program

First Semester		Second Semester	
	Hours		Hours
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
E. D. 101—Descriptive Geometry	3	C. E. 120—Applied Mechanics	3
Ind. A. 14—General Hor. Metals	3	Ind. A. 13—General Cold Metals	3
Math. 101—Differential Calculus	4	Math. 102—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Elective	2	E. D. 2—The Slide Rule	1
		Elective	2
	19		20

Junior Program

Acct. 75—Elementary Accounting	3	C. E. 222—Strength of Materials	4
C. E. 121—Applied Mechanics	3	E. E. 202—Circuits and Machinery	3
E. E. 201—Circuits and Machinery	3	Mgt. 302—Production Management	3
M. E. 113—Metal Processing	2	M. E. 221—Thermodynamics I	3
M. E. 211—Engineering Metallurgy	3	Elective	3
Elective	3	Elective from Group A	3
	17		19

Senior Program

Acct. 175—Cost Accounting	3	C. E. 270—Engineering Economy	3
E. E. 307—Engineering Electronics	3	M. E. 303—Machine Design I	3
M. E. 201—Kinematics	3	Mgt. 321—Motion and Time Study	2 or 3
Elective	3	Engr. 391—Seminar	1
Elective from Group B	3	Elective	3
Elective from Group C	2 or 3	Elective from Group D	3 or 4
	17 or 18	Elective from Group E	3
			18 or 20

Group A Electives:	
Ec. 335—Labor Economics	3
Math. 107—Elementary Statistics	3
Stat. 255—Business Statistics	3
Group B Electives:	
M. E. 227—Steam Power	3
Plants	3
Chem. 329—Principles of Unit Operations	3
M. E. 222—Thermodynamics II	3
Group C Electives:	
Sec. St. 220—Business Communications	3
Speech 3—Public Speaking	2
Humanities 7 or any English course numbered above 100.	

Group D Electives:	
C. E. 224—Fluid Mechanics	3
M. E. 304—Machine Design II	3
M. E. 312—Internal Combustion Engines	4
M. E. 311—Air Conditioning and Refrigeration	3
Group E Electives:	
Acct. 234—Standard Costs and Budgets	3
Bus. L. 255—Business Law	3
H. R. 303—Human Relations	3

BACHELOR OF SCIENCE IN HOME ECONOMICS

The School of Home Economics plays a dual role in training young women for home and family living as well as a professional career. During the freshman and sophomore years, emphasis is placed upon general education and basic training for home and family living. The student thus has the opportunity of becoming acquainted with all areas of Home Economics and is better able to select the field of specialization she wishes to follow during the junior and senior years.

Nine professional and one nonprofessional curricula are available, all of which lead to the degree of Bachelor of Science in Home Economics. The curricula are as follows:

Professional

Foods and Nutrition (Dietetics)	Home Economics in Business
Clothing and Textiles	Journalism and Radio-TV
Home Economics Education	Commercial Foods and Equipment
Home Economics Extension	Clothing Merchandising
Child Development with Nursery School	Home Planning and Decoration

Nonprofessional

Home and Family Living

Career opportunities for the home economist in the business and the professional world are numerous. Hospitals, restaurants, hotels and college residence halls are seeking the major in *Dietetics*. Public utility companies and manufacturers or retailers of food seek women trained in *Commercial Foods and Equipment* for promotional activities or for writing publications or for experimental work with foods and equipment.

The girl interested in *Textiles* will find opportunities in textile testing or in developing promotional and educational programs for textile concerns. Pattern companies and clothing departments in retail stores seek the *Clothing* specialist for promotional work, for merchandising and buying, for alterations, for comparative shopping, or for fashion co-ordination.

Home Economics Teachers, both vocational and nonvocational, are always in demand. The School of Home Economics at Ohio University is one of the five schools in Ohio approved by the State Department of Education for training vocational home economics teachers.

The broad program of *Home Economics Extension* in rural and urban areas of Ohio requires a large staff trained in extension for positions as home demonstration agent, extension specialist, or 4-H Club leader.

The home economist interested in *Child Development* will find opportunities in private or industrial nursery schools or in welfare agencies caring for young children. By meeting the state requirements for certification, she may teach young children in public schools.

Newspapers, women's magazines, radio and television companies seek the home economist with a flair for writing, speaking or demonstrating, since she is trained to direct her program to the homemaker and consumer.

The *Home Planning and Decoration* specialist finds opportunities in gift and decorating establishments helping the consumer in the selection of furnishings for the home. Or she may become associated with magazine or advertising concerns writing articles or assisting with promotional programs.

SPECIAL FACILITIES. The program in Home Economics at Ohio University is not confined to the classroom and laboratories; other activities and experiences are encouraged. A Nursery School and a Home Management House are maintained by the department. Two nearby high school home economics laboratories are available for student teaching. Off-campus activities have been developed with the Ohio State Extension Service, with the Health Department, with business organizations, with department stores, and with radio-TV stations to give the student opportunities for field work in specialized areas. Affiliation with the Merrill-Palmer School in Detroit, Michigan, provides a unique experience for the junior or senior desiring a semester of specialized training in all areas related to marriage and the family.

CORE COURSES. The School of Home Economics offers a group of core courses having no prerequisites, and open to any student in the

University. These courses are the basic courses taken by all students in home economics. However, they emphasize the practical aspects of home economics and are planned for women students desiring basic training in the activities relating to the successful management of a home. Individual courses may be elected.

Included in the group are:

- H. Ec. 1-2—Foods, Nutrition and Meal Planning
- H. Ec. 3-4—Clothing Selection and Construction
- H. Ec. 5—Child Development
- H. Ec. 6—Family Living
- H. Ec. 7—The Home and Its Furnishings
- H. Ec. 8—Consumer Problems of the Family
- H. Ec. 72—Home Nursing and Family Health
- H. Ec. 110—Textiles

MINORS IN HOME ECONOMICS. Programs may be set up with some one phase of home economics as a minor field. For instance, students in any department in the University may elect a minor in Home and Family Living, or Clothing and Textiles, or Foods and Nutrition, or Child Development and Family Life, or School Lunch and Institutional Management.

I FRESHMAN AND SOPHOMORE PROGRAM

The requirements of the University College relative to high school deficiencies, English composition, physical education, and speech must be fulfilled. In addition the freshman and sophomore program should include the following basic courses:

	Hours		Hours
H. Ec. 51—Orientation in Home Economics	1	H. Ec. 1-2—Foods, Nutrition and Meal Planning	6
Science—(See Note 1)	6-8	H. Ec. 3-4—Clothing Selection and Construction	4
Soc. 1—General Sociology	3	H. Ec. 5—Child Development	3
Psych. 1—General Psychology	3	H. Ec. 6—Family Living	3
Ec. 3—Contemporary Economic Society (3) or		H. Ec. 7—The Home and its Furnishings	2
Ec. 101—Principles of Economics	3	H. Ec. 8—Consumer Problems of the Family	2
Design 1,2—Beginning (4) or		H. Ec. 110—Textiles	2
Design 1,2—Beginning Design (4) or			
Design 91—Design and Composition (3)	3-4		

Note 1: Chemistry is required of those majoring in Foods and Nutrition, Clothing and Textiles, or Commercial Foods. Students following other curricula in home economics may take either Biol. 1-2—Living World, Zool. 3-4—Principles of Zoology, or chemistry. Chemistry is strongly recommended for those students who do not know which curriculum they wish to follow.

II JUNIOR AND SENIOR PROGRAM

If the student wishes to prepare for a career in some phase of home economics, she follows one of the nine professional curricula during her junior and senior years. If she is not interested in a professional or business career, she may follow the nonprofessional career with emphasis on home and family living.

PROFESSIONAL CURRICULA

Foods and Nutrition			Hours
	Hours		Hours
H. Ec. 125—Family Nutrition	3	H. Ec. 342—Institution Marketing and Meal Management	2
H. Ec. 322—Experimental Cookery	3	H. Ec. 343—Institution Equipment and Furnishings	2
H. Ec. 326—Advanced Nutrition	3	H. Ec. 348—Institution Management	3
H. Ec. 327—Quantity Cookery	3		
H. Ec. 329—Nutrition in Disease	2		

	Hours		Hours
H. Ec. 351—Home Management	2	H. Ec. 268h—Teaching of Home	
H. Ec. 353—Home Management		Economics	3
Laboratory	3	Zool. 235—Elements of Physiology	4
Acct. 75—Elementary Accounting	3	Zool. 241—Elementary Bacteriology	4
		Zool. 309—Biological Chemistry	4

Clothing and Textiles

H. Ec. 212-213—Flat Pattern Design	4	Ec. 102—Principles of Economics	3
H. Ec. 311—Economics of Textiles		Jour. 322—Feature and Magazine	
and Clothing	2	Writing	3
H. Ec. 315—History of Costume		Mkt. 155—Marketing Principles	3
and Textiles	2		
H. Ec. 316—Tailoring	3	Six hours selected from the following:	
H. Ec. 318—Advanced Textiles	3	Acct. 75—Elementary Accounting	3
H. Ec. 319—Problems in Textiles or		Jour. 327—Public Relations Techniques	2
Clothing	4-6	Mkt. 301—Retail Selling Policies	3
H. Ec. 351—Home Management	2	Phil. 211—Business and Professional	
H. Ec. 353—Home Management		Ethics	2
Laboratory	3	Psych. 135—Psychology of Advertising	
Advt. 155—Advertising Principles	3	and Selling	3
Design 120—Textile Design	3	Sec. St. 220—Business Communications	3
Design 137—Costume Design	2	Sec. St. 285—Office Management	3

Home Economics Education

H. Ec. 72—Home Nursing and		H. E. 351—Home Management	2
Family Health	2	H. Ec. 353—Home Management	
H. Ec. 125—Family Nutrition	3	Laboratory	3
H. Ec. 172—Advanced Child		H. Ec. 368b—Demonstration Techniques	2
Development	2	Zool. 241—Elementary Bacteriology	4
H. Ec. 268h—Teaching of Home		Humanities—Literature, Philosophy, Fine	
Economics	3	Arts, or Foreign Language	6-8
H. Ec. 316—Tailoring	3	Psych. 5—Educational Psychology	3
H. Ec. 327—Quantity Cookery	3	Ed. 130—Secondary Education	4
H. Ec. 330—Workshop in Home		Ed. 228—Principles of Teaching	3
Furnishings	3	Ed. 281—Observation and Student	
H. Ec. 334—Household Equipment	3	Teaching in High School	7

Home Economics Extension

H. Ec. 72—Home Nursing and		H. Ec. 353—Home Management	
Family Health	2	Laboratory	3
H. Ec. 125—Family Nutrition	3	H. Ec. 368a—Home Economics in	
H. Ec. 172—Advanced Child		Adult Education	3
Development	2	H. Ec. 368b—Demonstration Techniques	2
H. Ec. 268h—Teaching of Home		H. Ec. 390a—Field Work in Home	
Economics	3	Economics Extension	4-6
H. Ec. 316—Tailoring	3	Zool. 241—Elementary Bacteriology	4
H. Ec. 323—Food Preservation	2	Psych. 5—Educational Psychology	3
H. Ec. 330—Workshop in Home		Ed. 130—Secondary Education	4
Furnishings	3	Ed. 228—Principles of Teaching	3
H. Ec. 334—Household Equipment	3	Ed. 281—Observation and Student	
H. Ec. 351—Home Management	2	Teaching in High School	7

Child Development With Nursery School Training

H. Ec. 72—Home Nursing and		Ed. 101—Materials and Methods in	
Family Health	2	Kindergarten-Primary	
H. Ec. 125—Family Nutrition	3	Education	2
H. Ec. 172—Advanced Child		Ed. 102—Literature for Children	3
Development	2	Music 71—Introduction to Music for	
H. Ec. 351—Home Management	2	Elementary Teachers	2
H. Ec. 353—Home Management			
Laboratory	3	Minor directed toward Child Welfare*	
H. Ec. 377—Techniques with Young		Soc. 101—Social Problems	3
Children	3	Soc. 133—Social Work in the American	
H. Ec. 379—Guidance of Nursery		Community	3
School Children	6	Soc. 234—Child Welfare	3
Zool. 241—Elementary Bacteriology (4) or		H. Ec. 375—Problems in Child Develop-	
Biol. 1—The Living World (3) or		ment or Family Living	3
Physics 3—The Physical World (3)	3-4	H. Ec. 378—Administration of Group	
Psych. 5—Educational Psychology	3	Care of Young Children	3
		H. R. 303—Human Relations	3

*A minor directed toward Child Welfare is required with this curriculum. An exception is made for students in Child Development who want to meet state certification requirements for Kindergarten. In that case, additional courses are added as suggested by the College of Education.

Home Economics With Journalism and/or Radio-TV

	Hours		Hours
H. Ec. 72—Home Nursing and Family Health -----	2	Humanities—Literature, Philosophy, Fine Arts, or Foreign Language -----	6-8
H. Ec. 125—Family Nutrition -----	3	Jour. 107—Newspaper Reporting -----	3
H. Ec. 172—Advanced Child Development -----	2	Jour. 322—Feature and Magazine Writing -----	3
H. Ec. 316—Tailoring -----	3	Jour. 327—Public Relations Techniques -----	2
H. Ec. 330—Workshop in Home Furnishings -----	3	Radio 79—Introduction to Radio-TV -----	2
H. Ec. 334—Household Equipment -----	3	Radio 280—Radio-TV News Writing and Editing -----	2
H. Ec. 351—Home Management -----	2		
H. Ec. 353—Home Management Laboratory -----	3		

Commercial Foods and Equipment

H. Ec. 125—Family Nutrition -----	3	Jour. 322—Feature and Magazine Writing -----	3
H. Ec. 322—Experimental Cookery -----	3	Speech 3—Public Speaking -----	2
H. Ec. 323—Food Preservation -----	2	Eight hours selected from the following:	
H. Ec. 327—Quantity Cookery -----	3	Jour. 327—Public Relations Techniques -----	2
H. Ec. 334—Household Equipment -----	3	Phil. 211—Business and Professional Ethics -----	2
H. Ec. 340—Problems in Foods and Nutrition -----	3	Psych. 135—Psychology of Advertising and Selling -----	3
H. Ec. 351—Home Management -----	2	Radio 79—Introduction to Radio-TV -----	2
H. Ec. 353—Home Management Laboratory -----	3	Radio 280—Radio-TV News Writing and Editing -----	2
H. Ec. 368b—Demonstration Techniques -----	2		
Advt. 155—Advertising Principles -----	3		
Ec. 102—Principles of Economics -----	3		

Home Planning and Decoration

H. Ec. 318—Advanced Textiles -----	3	Ec. 102—Principles of Economics -----	3
H. Ec. 330—Workshop in Home Furnishings -----	3	Advt. 155—Advertising Principles -----	3
H. Ec. 331—Economics of Furnishings -----	2	Jour. 322—Feature and Magazine Writing -----	3
H. Ec. 334—Household Equipment -----	3	Eight hours selected from the following:	
H. Ec. 351—Home Management -----	2	Jour. 327—Public Relations Techniques -----	2
H. Ec. 353—Home Management Laboratory -----	3	Mgt. 312—Administration of Personnel -----	3
Arch. 55—Fundamentals of Architecture -----	3	Mkt. 155—Marketing Principles -----	3
Arch. 257—Fundamentals of Residential Architecture -----	2	Mkt. 301—Retail Selling Policies -----	3
Design 271-272—Interior Design -----	6	Phil. 211—Business and Professional Ethics -----	2
Design 120—Textile Design -----	3	Psych. 135—Psychology of Advertising and Selling -----	3
Design 313—Advanced Interior Design -----	3	Sec. St. 220—Business Communications -----	3
		Sec. St. 285—Office Management -----	3

NONPROFESSIONAL CURRICULUM

Home and Family Living

H. Ec. 72—Home Nursing and Family Health -----	2	H. Ec. 334—Household Equipment -----	3
H. Ec. 125—Family Nutrition -----	3	H. Ec. 351—Home Management -----	2
H. Ec. 172—Advanced Child Development -----	2	H. Ec. 353—Home Management Laboratory -----	3
H. Ec. 316—Tailoring -----	3	Humanities—Literature, Philosophy, Fine Arts or Foreign Language -----	6-8
H. Ec. 330—Workshop in Home Furnishings -----	3	H. R. 301—Marriage -----	3

THE COLLEGE OF ARTS AND SCIENCES

GEORGE W. STARCHER

DEAN

Archaeology and Antiquities

Astronomy

Biology

Botany

Chemistry

Classical Languages

English

General Studies

Geography and Geology

German

Government

History

Human Relations

Mathematics

Philosophy

Physics

Psychology

Romance Languages

Russian

Sociology

Zoology

THE COLLEGE OF ARTS AND SCIENCES

Ohio University remained a liberal arts college for almost one hundred years after it was founded. With the expansion of curricula and organization of new colleges and divisions during the last fifty years, the College of Arts and Sciences has held steadfastly to what has been the central purpose of the college for a century and a half; namely, to provide opportunities for the student to secure a general, liberal education. General education is as much concerned with the cultivation of the emotions as with intellectual training. It aims to develop insights and understanding, imagination, good judgment, taste, and a sense of the relevance of things. Since its focus is on more general concerns of man, it is broader than an education for immediate application. Liberal education implies knowledge, critical mindedness, the capacity for clear and independent thinking and expression, and ideas important to the thinking of free men and women—it is an education that liberates the human mind from ignorance, slovenliness, and intolerance. A liberal education affords an acquaintance with the language, skills, and methods in some area at a level that is beyond introductory concepts and methods. It prepares the student for more advanced graduate or professional training in some field or for immediate vocation.

These objectives are achieved through courses which make up the curriculum of the college—courses which historically have distinguished themselves as the best means whereby man has come to understand himself and the world in which he lives—and through degree requirements so arranged that the student gets specialized knowledge in some particular field or area together with a fundamental education in the humanities, natural sciences, and the social sciences.

The College includes the following departments:

Archaeology and Antiquities	History
Astronomy	Human Relations
Biology	Mathematics
Botany	Philosophy
Chemistry	Physics
Classical Languages	Psychology
English	Romance Languages
Geography and Geology	Russian
General Studies	Sociology
German	Zoology
Government	

A student enrolled in any college at Ohio University may elect courses in any other college with considerable freedom. Thus, much of the course work required by the other colleges is offered by the faculty of the College of Arts and Sciences. In turn, a student pursuing a degree in this college may elect courses, in some instances completing a major or minor, in a department of one of the other colleges.

When a student enters the College of Arts and Sciences from the University College, or by transfer from another college or university, he is assigned an adviser who is a member of the faculty teaching in

the area in which the student expects to major. The faculty adviser will assist the student in the preparation of his schedule each semester so that proper sequences of courses in the major, and appropriate related courses, are selected.

The College offers three degrees: the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Chemistry. The requirements for the first two degrees represent a considerable distribution of studies, yet they also permit of specialization. Indeed, they require sufficient stress in a major field to insure some degree of mastery of at least one area. The requirement for the degree of Bachelor of Science in Chemistry involves considerable concentration in chemistry. In general, the distinction among the curricula for the three degrees 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 and the Bachelor of Science in Chemistry degree the chief emphasis is placed upon the natural sciences and mathematics.

All candidates for degrees in the College of Arts and Sciences complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours earned, and in addition a 2.0 average on all hours earned in the major.

BACHELOR OF ARTS

A total of 124 hours is required for the degree of Bachelor of Arts subject to the following:

- (a) At least 60 hours must be in courses numbered above 100.
- (b) At least six hours in the major field must be in courses numbered above 300.
- (c) A minimum total of 70 hours must be in courses included in humanities, social sciences, and natural sciences.
- (d) Not more than 40 hours in any one department may be counted in the 124 hours required.
- (e) No course may satisfy two of the following requirements simultaneously.

The specific requirements for the degree are:

	Hours
ENGLISH COMPOSITION: Courses numbered 3-4 -----	6
PHYSICAL EDUCATION: Activities courses as required -----	0-4
SPEECH: Fundamentals of Speech -----	1
FOREIGN LANGUAGE: Complete course 102 in a language, or equivalent -----	0-16

Achievement of proficiency in a foreign language equivalent to that attained upon completion of two college years of a language, is required. (Exception is made for the student with 2 years of high school Latin who may complete the requirement by taking one year of Greek). A student who has had equivalent preparation may satisfy this requirement by passing an examination given by the language department concerned.

HUMANITIES: Select courses from two or more of the following
with at least six hours in one ----- 12

- (a) English courses numbered above 100.
 - (b) Foreign language courses numbered above 102.
 - (c) Philosophy
 - (d) Humanities 7, 8—Great Books
 - (e) Fine arts
- Of the fine arts only courses in the history and appreciation of fine arts may be taken to satisfy the 12-hour group requirement.

SOCIAL SCIENCES: Select courses from two or more departments
with at least six hours in some one department ----- 12

- (a) Economics
- (b) History
- (c) Human Relations
- (d) Geography
- (e) Government
- (f) Psychology
- (g) Sociology
- (h) Social Science 9, 10.

NATURAL SCIENCES: A one-year course in one department and
at least a one-semester course in another ----- 12

A minimum of one year of biological science and one year of physical science in high school or college is required.

- | | |
|---------------------------------|--------------------------------|
| Biological Sciences: | Physical Sciences: |
| (a) Biology | (a) Astronomy |
| (b) Botany | (b) Chemistry |
| (c) Psychology 109, 301, or 307 | (c) Geology |
| (d) Zoology | (d) Physics |
| | (e) Mathematics (except 1, 2). |

MAJOR: See departmental requirements for particular courses
in the major and related fields recommended or required__18-24

- (a) A minimum of eighteen hours in courses numbered above 100 (six of them in courses numbered above 300) selected from a single department in consultation with an adviser from that department, or
- (b) Twelve hours in courses numbered above 100 in each of two departments (six hours must be in courses numbered above 300) chosen with the approval of an adviser from each of the two departments.

A minor is not required. However, the student may wish to complete one or more minors. A minor consists of at least twelve hours in a single department, including six hours in courses numbered above 100. Courses used to satisfy any of the above degree requirements, other than the major, may be counted toward the minor (except English 3-4, courses 1, 2 of a foreign language, physical education activities courses, and Speech 1).

It is left to the discretion of the dean of the college to approve modification of these requirements in exceptional cases.

The student may complete a major for the A.B. degree in any of the following departments or schools by completing the specific requirements above and the number of hours and courses as indicated (see departmental description of courses):

ARCHAEOLOGY AND ANTIQUITIES—24 hours selected from the courses listed with at least 10 hours selected from 101, 252 and 340.

BOTANY—18 hours including Bot. 3-4, 105, 106 or 117, 173 and 6 hours in courses numbered above 300.

CHEMISTRY—27 hours including Chem. 1-2 or 3-4; 105 or 106; 109-110 or 107; 201-202 or 113; 203 or 117; 313-314 (with Math. 102 and Phys. 6 or 114 as prerequisites) or 6 hours of chemistry electives above 300. A full year's work is required in at least one of the following subjects: Quantitative Analysis (109-110), Organic Chemistry (201-202), or Physical Chemistry (313-314).





CLASSICAL LANGUAGES—20 hours above courses 1-2 in either Greek or Latin exclusive of courses requiring no knowledge of either Greek or Latin. Majors in Latin must include Lat. 122 or 333 and 329 or 331.

COMMERCE—24 hours selected from accounting, advertising, business law, finance, management, marketing and secretarial studies; and Ec. 101-102.

DRAMATIC ART AND SPEECH—Comprehensive Major—34 hours including Speech 2, 3, 25, 195, Radio 80, Dram. A. 10 and additional courses in dramatic art, radio, public address and speech correction as approved by the adviser.

ECONOMICS—24 hours including Ec. 101, 102, 333, and Statistics 255. Electives from government, history, sociology, and other social sciences should be chosen with approval of the adviser.

ENGLISH—24 hours beyond 3-4 distributed as follows: (a) 101, 102; (b) 323, 324; and (c) at least twelve hours so chosen that three of the following four groups of 300 courses are represented: (1) 311, 312; (2) 321, 322, 331, 372 (if six hours are chosen from group (2), 372 shall be included); (3) 332, 341, 342; (4) 351, 352, 353. Students who write well may secure permission to vary these requirements in order to pursue an English major in creative writing. The student preparing to teach English must complete English 264e.

A limited number of English majors may before April 15 of their junior year submit to the chairman of the department a written request to follow the honors program during their senior year. In addition to meeting the University requirements for honors work (see page 72), students in this program will attend the English Honors Seminar and take an oral examination on (a) their honors thesis and (b) English Literature. Honors majors are expected to take more than the minimum language requirement.

GEOGRAPHY—30 hours in approved departmental courses and Geol. 1-2 or 201; 126-127; and 314.

GEOLOGY—30 hours in approved departmental courses numbered above 100, including 126, 127, 128, 129, 220, 221, 303, 340, 341, 383 and Geog. 2-4 and 315. In addition, the following are required: chemistry, 8 hours; civil engineering, 3 hours; mathematics, 5 hours; and physics, 8 hours.

GERMAN—20 hours in courses numbered above 100, including 209-210.

GOVERNMENT—24 hours including Govt. 1, 2. Electives from history, economics, geography, and sociology are recommended with specific courses to be selected in consultation with the adviser.

HISTORY—24 hours including Hist. 1, 2, 101, 102 (unless excused as the result of taking a placement test), and at least two courses in the 300 group, selected from more than one field of history.

HOME ECONOMICS—A student may choose any one of four majors as follows:

(a) Home and Family Living, 24 hours selected to include 12 hours in each of two of the four fields—Foods and Nutrition; Child Development and Family Life; Clothing and Textiles; and Home Furnishing, Equipment, and Management.

(b) Foods and Nutrition, 24 hours approved by the adviser.

(c) Child Development and Family Life, 24 hours approved by the adviser.

(d) Clothing and Textiles, 24 hours approved by the adviser.

JOURNALISM—24 hours including Jour. 105, 107, 111, 217, 322; and 9 hours selected from: 230, 251, 306, 323, 325, 343, 375.

MATHEMATICS—28 hours including Math. 5-6, 101, 102 and at least two courses numbered above 300.

MUSIC—30 hours as follows:

Mus. 3, 4, 105, 106—12 hours; F. A. 123, 124—6 hours; applied music (major instrument or voice)—8 hours; and 4 hours selected from music literature, orchestration, composition, or counterpoint.

PAINTING AND ALLIED ARTS—24 hours, including Design 11-12, 4 hours; Painting and Drawing 45-46, 4 hours; Fine Arts 121-122, 6 hours; with a minimum of 12 hours in courses numbered above 100, selected from one of these fields or from one of the following: art history, sculpture and ceramics, or photography.

PHILOSOPHY—18 hours in courses numbered above 100, including Phil. 103, 117, or 209, 302 and at least two hours in the study of religion or Bible.

PHYSICS—24 hours including 113, 114 and at least 12 hours in courses numbered above 300 and Math. 5-6, 101 and 102.

PSYCHOLOGY—24 hours including 1, 109 and 18 hours in courses numbered above 100 as approved by the department advisers. Undergraduate majors, especially those planning to pursue graduate work in psychology, are advised to prepare themselves in

allied fields appropriate to their interests. Especially recommended are languages, preferably French and German, statistics, biological science, and economics.

ROMANCE LANGUAGE—20 hours in a language in courses numbered above 100. A major in Romance Languages or Romance Philology consists of 20 hours in courses numbered above 100 in one language and at least one year in each of two other Romance Languages.

SOCIAL WORK—32 hours including 1, 2 or 101, 102, 133, 234 or 245, and 339. (See "Preparation for Social Work" on page 108 and "Juvenile Delinquency and Criminology" on page 109.)

SOCIOLOGY—26 hours including 1, 2 or 204, 201 or 202, 303, and 330. It is recommended that majors fulfill degree requirements in natural science by including Math. 107 and zoology. Other courses will be recommended according to individual student interests.

SPEECH—(for prelaw students only)—27 hours including Radio 80, Speech 2, 3, 25, 34, 110, 112, 117, 305, 309 and 6 hours of electives from dramatic art, radio, speech and speech correction.

SPEECH CORRECTION—34 hours including Dram. A. 10, Radio 80, Speech 2, 3, 25, 34, 195, 307, 310, 312, 319, 320 and 323. Students who wish to earn a special teaching certificate in speech and hearing therapy must also meet the minimum requirements of the Ohio State Department of Education totaling 22 hours in specified courses in psychology and 14 hours in education. Those who do not wish certification must elect a minimum of 20 hours in psychology and education, including: Ed. 262s, 286, 103 or Psych. 3, 303, 304, and 310 or 337.

ZOOLOGY—24 hours in approved departmental courses including Zool. 3-4, 107, 120 or 121, 235 or 305. In addition the following extra-departmental courses are required: Chem. 1-2 or 3-4, Math. 5 or 9 or 107 (prenursing and medical technology majors have no requirement in mathematics), Phil. 103 or approved course in philosophy.

BACHELOR OF SCIENCE

A total of 124 hours is required for the degree of Bachelor of Science subject to the following:

- (a) At least 60 hours must be in courses numbered above 100.
- (b) At least six hours in the major field must be in courses numbered above 300.
- (c) Not more than 45 hours in any one department may be counted in the 124 hours required.
- (d) No course may satisfy two of the following requirements simultaneously.

The specific requirements for the degree are:

	Hours
ENGLISH COMPOSITION: Courses numbered 3-4 _____	6
PHYSICAL EDUCATION: Activities courses as required _____	0-4
SPEECH: Fundamentals of Speech _____	1
FOREIGN LANGUAGE: Two college years, or equivalent _____	0-16

Two years of high school language are considered equivalent to one year in college. The requirement may be satisfied by taking more than one language.

HUMANITIES: Select courses from two or more of the following with at least six hours in one _____ 12

- (a) English courses numbered above 100.
- (b) Foreign language courses numbered above 102.
- (c) Philosophy
- (d) Humanities 7, 8—Great Books
- (e) Fine Arts

Of the fine arts only courses in the history and appreciation of fine arts may be taken to satisfy the 12-hour group requirement.

SOCIAL SCIENCES: Select courses from two or more departments with at least six hours in some one department ----- 12

- | | |
|---------------------|---------------------------|
| (a) Economics | (e) Government |
| (b) History | (f) Psychology |
| (c) Human Relations | (g) Sociology |
| (d) Geography | (h) Social Science 9, 10. |

NATURAL SCIENCES: Major in the natural sciences group, with at least a year of biological science and a year of a physical science in high school or college ----- 48

- | | |
|---------------------------------|--------------------------------|
| Biological Sciences: | Physical Sciences: |
| (a) Biology | (a) Astronomy |
| (b) Botany | (b) Chemistry |
| (c) Psychology 109, 301, or 307 | (c) Geology |
| (d) Zoology | (d) Physics |
| | (e) Mathematics (except 1, 2). |

MAJOR: See departmental requirements for particular courses in the major and related fields recommended or required_ 18-24

- (a) A minimum of eighteen hours in courses numbered above 100, including six hours in courses numbered above 300, selected from a single department in consultation with an adviser from that department, or
- (b) Twelve hours in courses numbered above 100 in each of two departments, including six hours in courses numbered above 300, chosen with the approval of an adviser from each of the two departments.

A minor is not required. However, the student may wish to complete one or more minors. A minor consists of at least twelve hours in a single department, including six hours in courses numbered above 100. Courses used to satisfy any of the above degree requirements, other than the major, may be counted toward the minor (except English 3-4, courses 1-2 of a foreign language, physical education activities courses, and Speech 1).

It is left to the discretion of the dean of the college to approve modification of these requirements in exceptional cases.

BACHELOR OF SCIENCE IN CHEMISTRY

The degree of Bachelor of Science in Chemistry is primarily for those who expect to obtain industrial employment at the termination of their college program. Completion of the requirements for this degree qualifies a student for professional status in the American Chemical Society in the minimum period of two years of professional experience after graduation. Students looking forward to the doctorate should acquire a reading knowledge of German and Russian or French, and probably should elect the Bachelor of Science degree with a major in chemistry.

The total of 124 hours required for the degree of Bachelor of Science in Chemistry includes the requirements of the University College and approximately 94 hours as outlined in the curriculum below.

The specific requirements for the degree include:

	Hours
ENGLISH COMPOSITION: Courses numbered 3-4 -----	6
PHYSICAL EDUCATION: Activities courses as required -----	0-4

SPEECH: Fundamentals of Speech -----	1
FOREIGN LANGUAGE: One college year or equivalent -----	0-8
Two years of high school language are considered equivalent to one year in college. German, including Ger. 103, is recommended.	
HUMANITIES: -----	6
English, foreign languages (courses numbered above 102), fine arts,† Great Books, and philosophy.	
SOCIAL SCIENCES: Select Courses from two or more departments with at least six hours in one -----	12
Economics, history, human relations, geography, government, psychology, sociology, Social Science 9, 10. Economics 101-102 are recommended.	

BACHELOR OF SCIENCE IN CHEMISTRY CURRICULUM

Freshman Program

The University College program should include:

	Hours		Hours
Chem. 1 or 3—General Chemistry -----	4	Chem. 2 or 4—General Chemistry -----	4
Math. 5—Freshman Mathematics -----	5	Math. 6—Freshman Mathematics -----	5
Eng. 3—English Composition -----	3	Eng. 4—English Composition -----	3
E. D. 1—Engineering Drawing -----	2	E. D. 3—The Slide Rule -----	1
Electives* -----	2-3	Electives* -----	2-3

Sophomore Program

Chem. 109—Quantitative Analysis -----	5	Chem. 110—Quantitative Analysis -----	5
Math. 101—Differential Calculus -----	4	Math. 102—Integral Calculus -----	4
Phys. 5—Introduction to Physics, or		Phys. 6—Introduction to Physics, or	
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
Electives* -----	3	Electives* -----	3

Junior Program

Chem. 201—Organic Chemistry -----	3	Chem. 202—Organic Chemistry -----	3
Chem. 203—Organic Chemistry		Chem. 204—Organic Chemistry	
Laboratory -----	2	Laboratory -----	2
Chem. 313—Physical Chemistry -----	3	Chem. 210—Stoichiometry -----	3
Electives* -----	7-9	Chem. 314—Physical Chemistry -----	3
		Electives* -----	4-6

Senior Program

Chem. 317—Advanced Physical		Chem. 315—Physical Chemistry	
Chemistry -----	3	Laboratory -----	3
Chem. 329—Principles of Unit		Chem. 330—Principles of Unit	
Operations -----	3	Operations -----	3
Chem. 331—Unit Operations		Chem. 332—Unit Operations	
Laboratory -----	2	Laboratory -----	2
Electives* -----	6-9	Electives* -----	6-9

PREPROFESSIONAL CURRICULA

PREMEDICAL

Medical colleges require their prospective students to spend from six to eight semesters in premedical preparation. A number of medical colleges give preference to holders of a bachelor's degree and some require the degree for admission.

For most colleges the requirements for admission include general chemistry, organic chemistry, physics, zoology, comparative anatomy, embryology, English, and a minimum of one year of college foreign

†Only courses in the history and appreciation of fine arts are counted toward meeting the group requirement.

*See requirements for the degree. The program of a student taking Chem. 1-2 should include Chem. 105. Students are urged to consider Eng. 291, Geol. 201, and Math. 315 as possible electives.

language. Courses in government, history, economics, sociology, philosophy, and literature are strongly advised. A year's course in mathematics (Math. 5 and 6, or 9 and 107) is required by some and advised by most schools. Fulfillment of the requirements for the Bachelor of Arts degree is advised.

DEGREE IN ABSENTIA. Students who have completed 94 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.0 or above, in all hours earned, and have satisfied the requirements of the College of Arts and Sciences for the degree of Bachelor of Arts or Bachelor of Science may obtain the degree after completing a full year's work in an accredited school of medicine with an average grade of C, or above, or the equivalent, provided before entering the school of medicine, the student secures a statement in writing from the dean giving the senior-in-absentia privilege.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 69 and 76.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—Principles of Zoology	6
Math. 9—Freshman Mathematics	3	Requirements and/or electives*	
Math. 107—Elementary Statistics	3		

Sophomore Program

Chem. 105—Qualitative Analysis ¹	3	Phil. 103—Introduction to Philosophy	3
Chem. 107—Quantitative Analysis	4	Zool. 107—Principles of Heredity	3
Gk. 27—Greek Words in English ²	2	Zool. 120—Comparative Vertebrate Anatomy	4
		Requirements and/or electives**	

Junior Program

Chem. 201-202—Organic Chemistry	6	Phys. 5, 6—Introduction to Physics	8
and		Zool. 311—General Bacteriology ²	4
Chem. 203—Organic Chemistry		Requirements and/or electives**	
Laboratory	2		
or			
Chem. 113—Organic Chemistry	4		
and			
Chem. 117—Organic Chemistry			
Laboratory	2		

Senior Program

Chem. 328—Colloid Chemistry ²	3	Zool. 305—Principles of Physiology	4
Zool. 301—Mammalian Anatomy [†]	4	Requirements and/or electives**	
Zool. 302—Vertebrate Embryology [†]	4		

MEDICAL TECHNOLOGY

Preparation in medical technology trains students in 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 and entitled to use the initials, M.T., must have had a minimum of 60 semester hours of college work in a college or university recognized by the regional accrediting association, and a year's training in an approved school of medical technology. Interested persons

*See requirements for University College (page 76).

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

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

¹If Chem. 2, not 4, was completed.

²Suggested.

are invited to write to the Chairman, Department of Zoology, Ohio University, Athens, Ohio, for a descriptive folder on Training in Medical Technology.

The Ohio University - Mount Carmel Hospital Affiliated Training for Medical Technologists fulfills these requirements and affords the student an opportunity to earn the bachelor's degree. After completing six semesters (a minimum of 94 semester hours with a point-hour ratio of 2.0 or above in all hours earned and with courses which meet degree requirements) at Ohio University, and while still registered in the University, prospective technologists spend twelve months in residence at Mount Carmel Hospital, Columbus, Ohio. An excellent feature connected with this portion of the training is a rotating arrangement which affords practice in specialized laboratories for certain technics, such as tuberculosis technic in the Franklin County Tuberculosis Sanitarium; histologic technic in the Pathological Laboratory of Ohio State University; and private laboratory experience in a practicing pathologist's office. Upon satisfactory completion of the University and hospital training requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given each spring and fall by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a scholarship and loan fund for students during their year at Mount Carmel.† Expenses to be met during the year in Columbus are board and room, a fee of \$67.50 paid to the University, and a small sum for books and laboratory gowns. No fees are charged by Mount Carmel Hospital, nor does it pay any remuneration.

The requirements pertaining to English, physical education and speech are not indicated in the curriculum below. See pages 69 and 76.

Freshman Program

The University College Program should include:

Hours		Hours	
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—Principles of Zoology Requirements and/or electives*	6

Sophomore Program

Chem. 107—Quantitative Analysis	4	Zool. 121—Elements of Anatomy	3
Chem. 113—Organic Chemistry	4	Zool. 324—Histology	4
Chem. 117—Organic Chemistry Laboratory	2	Zool. 311—General Bacteriology Requirements and/or electives**	4
Zool. 107—Principles of Heredity	3		

Junior Program

Phil. 103—Introduction to Philosophy	3	Zool. 309—Biological Chemistry	4
Zool. 225—Animal Microtechnic	1-2	Zool. 312—Pathogenic Bacteriology	4
Zool. 235—Elements of Physiology	4	Zool. 316—Animal Parasites	4
Zool. 245-246—Clinical Technic	4	Requirements and/or electives**	

Senior Program†

Med. Tech. 291—Urinalysis	3	Med. Tech. 294—Chemistry	8
Med. Tech. 292—Hematology	5	Med. Tech. 295—Histologic Technic	4
Med. Tech. 293—Bacteriology, etc.	11	Med. Tech. 296—Basal Metabolism and Electrocardiography	1

†Application for aid should be filed with the Chairman, Department of Zoology, Ohio University, Athens, Ohio.

*See requirements for University College (page 76).

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

†See description of courses under "Zoology" in "Courses of Instruction."

NURSING

This curriculum is arranged for students who wish to obtain a college degree and also become registered nurses. By arrangement with approved accredited schools of nursing, a student may meet the requirements for a bachelor's degree by completing a three-year curriculum at Ohio University (94 semester hours with a minimum 2.0 grade average in all hours earned) and twenty-eight to thirty-one months in such an approved school of nursing. The degree is granted following completion of the program in nursing.

Ohio University maintains an affiliation with the Grant Hospital School of Nursing, Columbus, and a similar program can be arranged with a number of approved hospitals in large centers of population in Ohio. This plan makes it possible for students to complete their training in hospitals near their homes. Information on such affiliations may be secured by writing to the Chairman, Department of Zoology, Ohio University, Athens, Ohio. Details relative to the entire program will be worked out with the student by staff members in the Department of Zoology.

The following sequence of courses is recommended. The requirements in English composition, physical education, and speech are not indicated in the curriculum. See pages 69 and 76.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	-- 8	Psych. 5—Educational Psychology	----- 3
Psych. 1—General Psychology	----- 3	Zool. 3-4—Principles of Zoology	----- 6
		Requirements and/or electives*	

Sophomore Program

Chem. 113—Organic Chemistry	----- 4	H. Ec. 1-2—Foods, Nutrition and Meal Planning	----- 6
Chem. 117—Organic Chemistry Laboratory	----- 2	Soc. 101—Social Problems	----- 3
Eng. 101, 102—Soph. Eng. Literature or Eng. 111, 112—Chief American Writers	-----3-6	Zool. 107—Principles of Heredity	----- 3
		Zool. 121—Elements of Anatomy	----- 3
		Zool. 311—General Bacteriology	----- 4
		Requirements and/or electives**	

Junior Program

Phil. 103—Introduction to Philosophy	-- 3	Zool. 235—Elements of Physiology	---- 4
Psych. 310—Mental Hygiene	----- 3	Zool. 312—Pathogenic Bacteriology ¹	--- 4
		Requirements and/or electives**	

Some students prefer to complete requirements for the bachelor's degree before entering a school of nursing. Such persons are advised to complete requirements for a major in zoology and to elect courses outside of the science areas, as English, government, history, etc., to complete the degree requirements. It is possible for a student who has earned a bachelor's degree to enter a graduate program in a school of nursing and to receive the master's degree upon completion of the nursing program.

PRE-DENTAL

The minimum requirement for admission to dental school is the completion of at least 60 semester hours of college work which must

*See requirements for University College (page 76).

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

¹Suggested.

include general chemistry, organic chemistry, physics, zoology, and English. Most dental colleges recommend additional courses in zoology. A broad training in courses other than natural science is urged. Pre-dental students have the same degree-in-absentia privileges as pre-medical students (see page 101). Fulfillment of the requirements for the Bachelor of Arts degree is advised.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 69 and 76.

Freshman Program

The University College Program should include:

Hours		Hours	
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—Principles of Zoology	6
Math. 9—Freshman Mathematics	3	Requirements and/or electives*	6

Sophomore Program

Chem. 113—Organic Chemistry	4	Zool. 107—Principles of Heredity	3
Chem. 117—Organic Chemistry	2	Zool. 120—Comparative Vertebrate	4
Laboratory	3	Anatomy	4
Phys. 5, 6—Introduction to Physics	3	Zool. 311—General Bacteriology ¹	4
		Requirements and/or electives**	4

Junior Program

Chem. 105—Qualitative Analysis ²	3	Zool. 301—Mammalian Anatomy ¹	4
Phil. 103—Introduction to Philosophy	3	Zool. 305—Principles of Physiology	4
		Requirements and/or electives**	4

PREVETERINARY MEDICINE†

Schools of veterinary medicine require sixty semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

Freshman Program

Hours		Hours	
Eng. 3-4—English Composition	6	Chem. 1-2 or 3-4—General Chemistry	8
Speech 1—Fundamentals of Speech	1	Zool. 3-4—Principles of Zoology	6
Physical education	2	Humanities and/or social science	7-9

Sophomore Program

Bot. 3-4—General Botany	6	Zool. 235—Elements of Physiology	4
Chem. 107—Quantitative Analysis	4	Humanities and/or social science to	
Zool. 120—Comparative Vertebrate	4	complete a program of 30-32 hours.	
Anatomy	4		

In addition to the above program, some schools require either farm experience or courses in agriculture, either of which must be arranged for and approved by the school of veterinary medicine. This additional requirement can be met in summers previous to enrollment or during the progress of the veterinary program.

PREPHARMACY†

Most schools of pharmacy require two years (minimum of 60 semester hours) of prescribed college courses. The following program will meet these entrance requirements.

*See requirements for University College (page 76).

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

¹Suggested.

²Not required for students who took Chem. 3-4.

†A student who completes this program (with a total of 62 semester hours and a minimum of 124 grade points) is eligible for the Associate in Arts diploma in the University College.

Freshman Program

Hours		Hours	
Eng. 3-4—English Composition	6	Chem. 1-2 or 3-4—General Chemistry	8
Speech 1—Fundamentals of Speech	1	Math. 9—Freshman Mathematics	3
Bot. 3-4—General Botany	6	Math. 107—Elementary Statistics	3
Physical education	2	Humanities and/or social science	3

Sophomore Program

Chem. 107—Quantitative Analysis	4	Ec. 101-102—Principles of Economics	6
Chem. 113—Organic Chemistry	4	Phys. 5, 6—Introduction to Physics	8
Chem. 117—Organic Chemistry Laboratory	2	Zool. 3-4—Principles of Zoology	6
		Humanities and/or social science	3

PREPHYSICAL THERAPY

The following program extending over a period of three years at Ohio University is recommended to those students who wish to enter the field of physical therapy. Upon completion of 94 semester credit hours, if a scholastic average of 2.0 or better has been maintained, the student is eligible for admission to a school of physical therapy fully accredited by the American Medical Association. An institution affiliating in this program is the Frank E. Bunts Educational Institute of the Cleveland Clinic Foundation, Cleveland, Ohio, which offers a 12-month course in physical therapy. Upon satisfactory completion of the three-year program at Ohio University and the one-year course in physical therapy, Ohio University will award the student the bachelor's degree.

Freshman Program

Hours		Hours	
Eng. 3-4—English Composition	6	Psych. 1—General Psychology	3
Speech 1—Fundamentals of Speech	1	Psych. 3—Child Psychology	3
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—Principles of Zoology	6
Physical education	2	Requirements and/or electives	2-4

Sophomore Program

Math. 9—Freshman Mathematics	3	Zool. 107—Principles of Heredity	3
Soc. 101—Social Problems	3	Zool. 120—Comparative Vertebrate Anatomy	3
Physical education	2	Requirements and/or electives	16-18

Junior Program

Phys. 5, 6—Introduction to Physics	8	Zool. 241—Elementary Bacteriology	4
Zool. 235—Elements of Physiology	4	Zool. 302—Vertebrate Embryology	4
		Requirements and/or electives	10-14

PREFORESTRY

The following sequence of courses is recommended. Students interested in attending accredited schools of forestry for advanced degrees in special branches such as forest management, silviculture, wood technology, pulp technology, forest pathology and forest soils should consult with the chairman of the Department of Botany in order to assure selection of the proper electives.

Freshman Program

The University College Program should include:

Bot. 3—General Botany	3	Bot. 4—General Botany	3
Eng. 3—English Composition	3	Agr. 3—Foesry	3
Math. 5—Freshman Mathematics	5	Phys. 5—Introduction to Physics	4
Speech 1—Fundamentals of Speech	1	Eng. 4—English Composition	3
Physical education	1	Physical education	1

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

Sophomore Program

Geol. 1—Elements of Geology	3	Geol. 2—Elements of Geology	3
Zool. 3—Principles of Zoology	3	Zool. 4—Principles of Zoology	3
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
C. E. 10—Plane Surveying	3	Bot. 106—Spring Flora	3
Electives*	3	Electives*	3

16

16

Junior and Senior Programs

Bot. 105—Elementary Plant Physiology	3	Chem. 113—Organic Chemistry	4
Bot. 111—Plant Anatomy	3	Agr. 115—Soils and Fertilizers	3
Bot. 117—Dendrology	3	Zool. 216—Animal Communities	4
Bot. 210—Plant Breeding and Genetics	3	Zool. 219—General Entomology	4
Bot. 303—Plant Ecology	4	C. E. 211—Topographical Surveying	2
Bot. 324—Forest Pathology	3	C. E. 314—Photogrammetry	3
		Electives*	24-30

PREPARATION FOR FEDERAL AND STATE BIOLOGICAL SERVICES

Botanical Services: Students interested in general administrative work in the United States forest service, in the botanical phases of the state and federal biological surveys and national park service, soil conservation service, and allied federal and state services, or in special technical positions with the federal and state governments, or private wood-using industries, or in research training leading to positions of professional status in forest pathology, plant pathology, plant physiology, forest and range ecology, agronomy, forestry, botany, and geobotany should consult with the chairman of the Department of Botany. See page 105 for preforestry curriculum.

Zoological Services: Students interested in insect control, fisheries, the zoological phases of the wild life service and biological survey, and national park service should consult with the chairman of the Department of Zoology.

ATOMIC ENERGY AND INDUSTRIAL PHYSICS

Students preparing for a career in the atomic energy industry or in an industrial physics laboratory should elect the Bachelor of Science degree with a major in physics. The basic curriculum shown below is recommended. Some specialization in a particular phase of physics can be obtained in the junior and senior years by the choice of electives. General university requirements in physical education and speech and the foreign language requirements for the Bachelor of Science degree are omitted from the curriculum below. For these requirements see pages 69, 76, and 98.

Freshman Program

First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Electives*	3-5	Electives*	3-5

Sophomore Program

Phys. 113—General Physics	4	Phys. 114—General Physics	4
Math. 101—Differential Calculus	4	Math. 102—Integral Calculus	4
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Social science or humanities**	3	Social science or humanities**	3
Electives**	2-3	Electives**	2-3

* See requirements for University College.

** See requirements for the Bachelor of Science degree.

Junior Program

Math. 304—Advanced Calculus -----	3	Math. 315—Differential Equations -----	3
Phys. 215—Sound -----	2	Phys. 220—Electricity and Magnetism -	3
Phys. 219—Electricity and Magnetism -	3	Phys. 314—Modern Spectroscopy -----	3
Advanced physics laboratory -----	2	Advanced physics laboratory -----	2
Social science or humanities** -----	3	Social science or humanities** -----	3
Electives** -----	3-4	Electives** -----	2-3

Senior Program

Phys. 351—Classical and Quantum Mechanics -----	3	Phys. 352—Classical and Quantum Mechanics -----	3
Phys. 349—Atomic Physics -----	3	Phys. 350—Atomic Physics -----	3
Phys. 310—Heat and Thermodynamics -	3	Phys. 361—Minor Problems -----	1
Advanced physics laboratory -----	2	Phys. 365—Nuclear Reactor Theory and Practice -----	3
Electives** -----	5	Electives** -----	6

The following courses in related departments are suggested: Chem. 313-314; E.E. 307-308; E. D. 1, 3; Geol. 1-2; and Math. 301, 318, 330, 351-352.

GOVERNMENT FOREIGN SERVICE*

Students desiring to prepare for government foreign service are advised to make an early selection of the area or country in which they hope to serve and to acquire as full a knowledge as possible of that area or country on the following points: language and literature, history, government, geography, natural resources, economic life, philosophy, religion, art, and educational system. The general requirements for the Bachelor of Arts degree should be completed.

The following sequence of courses is recommended for the first three years. The university requirements in English, physical education, and speech are not indicated below.

Freshman Program

The University College Program should include:

	Hours		Hours
Foreign language -----	4	Foreign language -----	4
Govt. 1—American Government -----	3	Govt. 2—American Government -----	3
Hist. 1—Western Civilization in Modern Times -----	3	Hist. 2—Western Civilization in Modern Times -----	3
Natural science -----	3	Natural science -----	3

Sophomore Program

Foreign language -----	4	Foreign language -----	4
Eng. 101—Sophomore English Literature -----	3	Eng. 102—Sophomore English Literature -----	3
Ec. 101—Principles of Economics -----	3	Geog. 208—Geography of Europe (3) or Ec. 102—Principles of Economics (3) --	3
Hist. 101—History of the United States -----	3	Hist. 102—History of the United States -----	3
Phil. 103—Introduction to Philosophy --	3	Soc. 101—Social Problems -----	3
Govt. 101—Comparative Government ---	3	Govt. 102—Comparative Government ---	3

Junior Program

Foreign language -----	3-4	Foreign language -----	3-4
Hist. 145—Latin American History (3) or Hist. 250—The Far East (3) -----	3	Hist. 375—History of Russia -----	3
Soc. 321—Contemporary Social Movements (3) or Geog. 310—Political Geography (3) ---	3	Phil. 302—History of Ideas: Modern (3) or Phil. 304—Advanced Social Philosophy (2) -----	2-3
Govt. 316—International Relations ---	2-3	Govt. 341—American Foreign Policy ---	3
		Ec. 330—Development of Economic Thought -----	2-3
		Electives -----	

Senior Program

Specialization as advised on area or country.

*It is suggested that a major be completed in government, history or economics and a minor in a foreign language or English.

PREPARATION FOR SOCIAL WORK

The Department of Sociology is a member of the National Association of Schools of Social Administration and offers a sequence of courses for preprofessional training in social work. These courses serve the following purposes: (1) undergraduate preparation for admission to graduate schools of social work; (2) vocational preparation for students who expect to seek employment immediately following graduation from college; and (3) additional training for persons now employed in social agencies. They also offer students preparing for medicine, law, teaching, and nursing an opportunity to become acquainted with the types of social services they will frequently encounter in their professional activities.

(1) *Preparation for Advanced Professional Training.* The undergraduate foundation for professional training in social work is a broad liberal arts education, with a concentration of studies in the social, psychological, and biological sciences. The student will elect sociology as a major, with a minor or second major in a related field; the program should follow the curriculum shown below, with adjustments as recommended by the departmental adviser.

(2) *Preparation for Employment.* Students intending to seek employment immediately following completion of the A.B. degree will register for the background courses and casework and field work courses outlined below. This sequence provides a sufficient foundation to qualify for appointment to certain staff positions in a family agency, public assistance office, aid for the aged office, child welfare agency, children's institution, Red Cross, YMCA and YWCA. Students preparing for group work or community organization will substitute appropriate courses in the junior and senior years. All students must obtain the permission of the department and of the instructor before registering for 300-level courses in social work.

(3) *Special-Training Courses.* Persons employed in social agencies who wish to obtain additional training without becoming candidates for a degree may register as special students at either the undergraduate or graduate level, subject to the general requirements of the University. Agency workers who desire special-training courses of a particular type either at the University or off-campus should apply through their agencies; such courses will be arranged if the number of interested persons warrants the assignment of an instructor.

Graduate Work. Students admitted to the Graduate College for work toward the M.A. degree may elect a curriculum in social work, subject to the following requirements: written permission of the department; a minimum of 6 semester hours in the biological sciences and 20 semester hours in the social sciences as an undergraduate; a program of 22 semester hours in graduate courses in social work and closely allied fields; 4 to 6 semester hours of thesis research; and 8 to 12 hours of supervised field experience in an approved social agency. This program normally requires three semesters, or two semesters and one summer session. In certain circumstances arrangements may be made for the

transfer of a limited number of credits to be applied toward a professional degree at a graduate school of social work.

SOCIAL WORK

The following curriculum is recommended for students planning to enter social work upon completion of the A.B. degree. Students should confer with the instructor in social work before registering each term. See "Sociology" under "Courses of Instruction."

Freshman Program

Eng. 3—English Composition -----	3	Eng. 4—English Composition -----	3
Foreign language -----	4	Foreign language -----	4
Zool. 3—Principles of Zoology -----	3	Zool. 4—Principles of Zoology -----	3
Soc. 1—General Sociology I -----	3	Soc. 2—General Sociology II (3) or,	
Speech 1—Fundamentals of Speech ----	1	Soc. 101—Social Problems (3) -----	3
Phil. 1—Principles of Reasoning -----	3	Psych. 1—General Psychology -----	3

Sophomore Program

Eng. 101—English Literature -----	3	Eng. 102—English Literature -----	3
Ec. 101—Principles of Economics (3) or		Ec. 102—Principles of Economics, or	
Hist. 101—History of the		Hist. 102—History of the	
United States (3) -----	3	United States -----	3
Natural science or mathematics -----	3	Math. 107—Elementary Statistics -----	3
Soc. 102—The Social Security System --	2	Soc. 133—Social Work in the	
Soc. 211—Race and Culture		American Community -----	3
Contacts (3) or		Soc. 103—Rural Sociology (2) or	
Psych. 3—Child Psychology (3) -----	3	Soc. 204—Urban Communities (3) -----	2-3

Junior Program

Soc. 234—Child Welfare -----	3	Soc. 248—Social Group Work -----	3
Soc. 245—Public Welfare -----	3	Soc. 250—Community Planning for	
Soc. 308—Marriage and the Family ----	3	Social Welfare -----	2
H. Ec. 353—Problems in Family		Soc. 339—Introduction to Social	
Economics -----	3	Case Work -----	2
Electives -----	2-5	Soc. 322—Juvenile Delinquency -----	3
		Electives -----	4-7

Senior Program

Soc. 340—Social Case Work -----	2	Soc. 342—Field Work Services -----	2
Soc. 341—Field Work Services -----	2	Soc. 321—Contemporary Social	
Psych. 310—Mental Hygiene (3) or		Movements (3) or	
Psych. 312—Abnormal Psychology (3) --	3	Soc. 325—Personality and Society (3) --	3
Electives -----	7-10	Electives -----	9-12

Suggested electives: Economics 335, 338; Government 1, 2, 303, 309, 348; History 1, 2, 245, 315, 331, 332; Philosophy 2, 304; Psychology 113, 303, 304; Zoology 235; Sociology, various courses as offered. Students interested in group work may elect art, music, drama, and physical education courses.

PREPARATION FOR WORK IN JUVENILE DELINQUENCY AND CRIMINOLOGY

Rising standards in police and court services and in the supervision and training of juvenile delinquents, young offenders, and criminals have created a variety of career positions for college graduates with special training in these fields. Preparation for these positions should be based upon the liberal arts subjects, with concentration in the social sciences, and with specialized experience in field work and internship courses. By careful planning of his program, under guidance of the departmental adviser, the student will be able to spend the second semester of his senior year as an intern in a court or correctional institution, and thus receive the practical experience which will assist him in qualifying for appointment in probation, parole, and correctional work. All students must obtain the permission of the department and of the instructor before registering for 300-level courses in juvenile delinquency, criminology, and social work.

Graduate Work. To qualify for positions in metropolitan courts, the federal institutions, and the newer branches of professional service in correctional education, students should plan to complete the M.A. degree in sociology and social work. See the requirements for admission to the Graduate College, page 160.

JUVENILE DELINQUENCY AND CRIMINOLOGY

The following curriculum is based on sociology as a major and psychology as a minor, and is suitable as preparation for juvenile probation work; it may be adapted to meet requirements for positions in correctional institutions by substituting relevant courses, as recommended by the adviser.

Freshman and Sophomore

The recommended curriculum for the first two years is identical with that shown under "Preparation for Social Work," page 108.

Junior Program

Soc. 308—Marriage and the Family ----	3	Soc. 322—Juvenile Delinquency -----	3
Soc. 311—Criminology and Penology ---	3	Soc. 339—Introduction to Social	
Soc. 208—Social Statistics (2) or		Case Work -----	2
Soc. 301—Social Research Methods (2)	2	Soc. 201—Field Studies in Sociology ---	2
Psych. 113—Psychology of Adolescence -	2	Psych. 304—Psychology of	
Psych. 303—Mental Measurements ----	3	Exceptional Children -----	2
Electives -----	3-6	Electives -----	3-6

Senior Program

Soc. 340—Social Case Work -----	2	Soc. 342—Field Work Services -----	2
Soc. 341—Field Work Services -----	2	Soc. 350 or 370—In-service	
Psych. 312—Abnormal Psychology ----	3	Training -----	1 to 6
Electives in sociology -----	3	Electives in sociology -----	3
Other electives -----	6-9	Other electives -----	3-6

PREPARATION FOR LAWYERS

A student in the College of Arts and Sciences who plans to enter law school normally completes the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The prelaw student may complete a major in the area of his principal interest. The student is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American history; government; economics; sociology; at least one laboratory science; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language, preferably Latin. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

A student who desires to enter a school of law at the end of three years of college work and receive the Bachelor of Arts degree from Ohio University after completing his first year in law school may do so. To be eligible for the degree he must complete the specific degree requirements, earn a total of 94 semester hours with a point-hour ratio of 2.0 in all hours earned, and complete one year's work in an accredited law school with an average grade of C, or above, or the equivalent. Before entering the law school, the student must secure a statement in writing from the dean of the College of Arts and Sciences giving the senior-in-absentia privilege.

PREPARATION FOR TEACHERS

A student pursuing either the Bachelor of Arts or Bachelor of Science degree may meet the special requirements in education for certification to teach in Ohio by completing the following:

Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	4
Ed. 228—Principles of Teaching	3
A methods course	2-3
Ed. 281—Observation and student teaching	7
Total hours required	19-20

See page 139 for the academic requirements for certification to teach in the various teaching fields.

PREPARATION FOR PERSONNEL WORK

Many students have an interest in preparing for personnel work. Employment opportunities are primarily in: business and industry, elementary and secondary education, government agencies, service organizations, and colleges and universities. Advanced training beyond the bachelor's degree and relevant experience are necessary to qualify for the most desirable positions.

A student with an occupational objective in personnel work may wish to consider the following recommendations in pursuing an undergraduate program.

1. Develop a broad base of general education through completion of:
 - a. University College requirements.
 - b. General requirements of a degree college
 - c. Basic courses in all the social sciences
2. Complete a strong undergraduate major in some one of the following: economics, government, history, management, psychology, sociology, or complete the B.S. in Education program outlined on page 131. The choice of the B.S. in Education degree is suggested for those who will wish to work in the elementary or secondary schools. Undergraduate students who wish to try for entry positions in business or industry should choose the B.S. in Commerce program or have a substantial background in commerce courses in addition to the appropriate major.
3. Choose undergraduate courses broadly from all areas. Students who plan to continue their education beyond the bachelor's degree should not elect too many courses in their major in excess of the requirements of the department.
4. Consider the following areas with courses and programs which are of especial significance for the student of personnel:

Education
Human Relations
Management

Psychology
Sociology

5. Counsel broadly regarding the training for your occupational objective: consult the dean of your college and of the other colleges offering courses in your field of interest, department chairmen, instructors of personnel courses, personnel deans, University Testing and Counseling Service, and people outside the University holding personnel positions.
6. Appraise potentialities for success and satisfaction in personnel work through course work, participation in group activities, work experience, and evaluation of interpersonal relations.

Graduate training may be undertaken in the following colleges and departments with a view to securing training for a personnel position: Commerce, Education, Government, Human Relations, Management, Psychology, and Sociology.

PREPARATION FOR WORK IN LATIN-AMERICAN COUNTRIES

Students desiring to prepare for work in Latin-American countries in such fields, for example, as business, public health, or education are advised to study Spanish and Portuguese, with emphasis on the spoken language, and to include the following courses: Art History 371; History 145, 255, and 357; Romance Languages—Portuguese 1-2 and Spanish 213 and 311; Geography 205; and selected courses in the College of Commerce.

THE COLLEGE OF COMMERCE

WILLIAM H. FENZEL

ACTING DEAN

Accounting
Advertising
Agriculture
Business Law
Economics
Finance
Management
Marketing
Secretarial Studies
Statistics

THE SCHOOL OF JOURNALISM

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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 or business administration. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Commerce offers comprehensive programs of study in business and in economics which lead to the degree of Bachelor of Science in Commerce.

The College also includes the Department of Agriculture, which offers programs of study leading to the degree of Bachelor of Science in Agriculture, the Department of Secretarial Studies, which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism, which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Commerce, therefore, is required to take some courses offered by the other colleges of the University in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Commerce, a student may stress an interest by choosing courses offered by any other college of the University. Such courses are open to students in the College of Commerce on the same basis as they are open to students in those colleges. The College of Commerce, in turn, aims to serve students enrolled in the other colleges of the University and admits them to its courses on the same basis as students registered in the College of Commerce.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. Specific noteworthy examples of the relationship which exists between the colleges of the University are to be found in teacher training and industrial engineering. The Colleges of Education and Commerce cooperate in offering teaching majors in agriculture and commerce and the Colleges of Applied Science and Commerce cooperate in offering industrial engineering. However, it is impossible to set up predetermined curricula for each and every possible combination. For this reason, the College of Commerce stresses its faculty advisory system for students. Each student may choose as an adviser a member of the College of Commerce faculty who is a specialist in the student's field of interest. Student and adviser together then mold the skeletal outlines of courses into an integrated program of study best suited to the student's individual needs.

A candidate for a degree in the College of Commerce must complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours earned. Furthermore, a candidate must have a 2.0 average in all hours earned in a prescribed area of the degree requirements.

BACHELOR OF SCIENCE IN AGRICULTURE

Three curricula are offered in agriculture. Each leads to the degree of Bachelor of Science in Agriculture. For a teaching major, see page 130.

The curriculum in *General Agriculture* is designed for those students who desire a broad training in most phases of agriculture rather than an intensive specialization in any one phase of the field. Considerable emphasis is stressed in the laboratory and classroom on the practical application of scientific technique in farming. Opportunities for practical experience in all fields are provided. Students interested in farm operation, agricultural agency and agricultural sales work should take this curriculum. They also should indicate their occupational objective to their adviser in order that proper elective courses may be selected. In this curriculum students may adjust their electives in order to obtain training with more emphasis on greenhouse work, animal husbandry, or general training.

The curriculum in *Preforestry* is offered as a part of the conservation program of the University. A student pursuing this curriculum may choose to meet the requirements for the Bachelor of Science in Agriculture degree or the Bachelor of Arts degree in botany. This curriculum enables the student to meet the requirements of most professional forestry schools and at the same time gain a broad background in agriculture.

Ohio University does not offer a professional course in forestry. Students desiring to enter a professional forestry school should take the first two years of the preforestry program. These two years of work are similar to the prerequisite training required by most forestry schools. The student who plans to enter a professional forestry school should declare his intention and confer with his adviser relative to the forestry institution he plans to attend after completing his two years of work in the preforestry curriculum. This will enable the student and his adviser to plan more thoroughly the student's course of study for his sophomore year at Ohio University.

The curriculum in *Soil Conservation* also is offered as a part of the conservation program of the University. It is designed for those who wish to prepare for work in various phases of conservation related to agriculture.

CURRICULA IN AGRICULTURE

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curricula below. See pages 69 and 76.

GENERAL AGRICULTURE

Freshman Program

The University College Program should include:

First Semester		Hours	Second Semester		Hours
✓ Agr. 1—General Agriculture*	-----	3	✓ Agr. 3—Forestry	-----	3
✓ Bot. 3—General Botany	-----	3	✓ Bot. 4—General Botany	-----	3

Sophomore Program

✓ Agr. 115—Soils and Fertilizers	-----	3	✓ Agr. 109—Landscape Gardening or	-----	3
✓ Chem. 1 or 3—General Chemistry	-----	4	✓ Agr. 210—Nursery Practices and	-----	3
Ind. A. 51—Farm Shop I	-----	3	Plant Propagation	-----	3
✓ Soc. 103—Rural Sociology	-----	2	✓ Agr. 116—Field Crops	-----	3
✓ Zool. 3—Principles of Zoology	-----	3	✓ Chem. 2 or 4—General Chemistry	-----	4
			Ind. A. 52—Farm Shop II	-----	3
			✓ Zool. 4—Principles of Zoology	-----	3
		15			16

Junior Program

✓ Agr. 121—Livestock Production	-----	3	✓ Agr. 102—Vegetable Gardening	-----	3
✓ Agr. 217—Soil Conservation	-----	3	✓ Agr. 103—Fruit Growing (3) or	-----	3
✓ Agr. 231—Floriculture and Greenhouse	-----	3	✓ Agr. 104—Small Fruits (3)	-----	3
Management	-----	3	✓ Agr. 127—Poultry Production	-----	3
Geol. 201—Agricultural Geology (3) or	-----	3	✓ Zool. 241—Elementary Bacteriology	-----	4
Geog. 232—Conservation of Natural	-----	3	Electives	-----	3
Resources (3)	-----	3			16
✓ Zool. 219—General Entomology	-----	4			
		16			

Senior Program

✓ Agr. 124—General Dairying	-----	3	✓ Agr. 202—Farm Practices	-----	3
✓ Agr. 201—Farm Practices	-----	3	✓ Agr. 225—Animal Nutrition	-----	3
✓ Agr. 243—Animal Breeding	-----	3	✓ Agr. 235—Farm Management	-----	4
✓ Bot. 321—Plant Pathology	-----	3	Electives	-----	6
Electives	-----	6			16
		18			

PREFORESTRY

Freshman Program

The University College Program should include:

First Semester		Hours	Second Semester		Hours
Agr. 1—General Agriculture*	-----	3	Agr. 3—Forestry	-----	3
Bot. 3—General Botany	-----	3	Bot. 4—General Botany	-----	3
Math. 5—Freshman Mathematics	-----	5	E. D. 1—Engineering Drawing	-----	2

Sophomore Program

Agr. 115—Soils and Fertilizers	-----	3	Bot. 108—Vegetation of North	-----	2
Chem. 1 or 3—General Chemistry	-----	4	America	-----	4
Geol. 201—Agricultural Geology	-----	3	Chem. 2 or 4—General Chemistry	-----	3
Soc. 103—Rural Sociology	-----	2	C. E. 10—Plane Surveying	-----	3
Zool. 3—Principles of Zoology	-----	3	Zool. 4—Principles of Zoology	-----	3
		15	Electives	-----	3
					16

Junior Program

Agr. 217—Soil Conservation	-----	3	✓ Agr. 109—Landscape Gardening	-----	3
Bot. 105—Elementary Plant Physiology	-----	3	Bot. 318—Plant Technology	-----	3
Bot. 117—Dendrology	-----	3	Geog. 232—Conservation of Natural	-----	3
C. E. 211—Topographic Surveying	-----	2	Resources	-----	4
Phys. 5—Introduction to Physics	-----	4	Zool. 216—Animal Communities	-----	3
		15	Electives	-----	3
					16

Senior Program

Agr. 210—Nursery Practices and Plant	-----	3	Agr. 201—Farm Practices	-----	3
Propagation	-----	3	Bot. 304—Forest Ecology	-----	3
Bot. 303—Plant Ecology	-----	4	Bot. 324—Forest Pathology	-----	3
Bot. 321—Plant Pathology	-----	3	Electives	-----	9
Zool. 219—General Entomology	-----	4			18
Electives	-----	3			
		17			

*Not required for students who have had 3 years of vocational agriculture in high school.

SOIL CONSERVATION

Freshman Program

The University College Program should include:

First Semester		Hours	Second Semester		Hours
Agr. 1—General Agriculture*	-----	3	Agr. 3—Forestry	-----	3
Bot. 3—General Botany	-----	3	Bot. 4—General Botany	-----	3
Math. 5—Freshman Mathematics	-----	5	E. D. 1—Engineering Drawing	-----	2

Sophomore Program

Chem. 1 or 3—General Chemistry	-----	4	Bot. 108—Vegetation of North America	-----	2
Ind. A. 51—Farm Shop I	-----	3	Chem. 2 or 4—General Chemistry	-----	4
Phys. 5—Introduction to Physics	-----	4	Geog. 232—Conservation of Natural Resources	-----	3
Geol. 201—Agricultural Geology	-----	3	Zool. 3—Principles of Zoology	-----	3
Electives	-----	2	Electives	-----	3
		16			15

Junior Program

Agr. 115—Soils and Fertilizers	-----	3	Agr. 116—Field Crops	-----	3
Bot. 105—Elementary Plant Physiology	-----	3	Agr. 201—Farm Practices	-----	2
Bot. 303—Plant Ecology	-----	4	Bot. 106—Spring Flora	-----	3
Agr. 121—Livestock Production	-----	3	C. E. 10—Plane Surveying	-----	3
Soc. 103—Rural Sociology	-----	2	Electives	-----	6
		15			18

Senior Program

Agr. 210—Nursery Practices and Plant Propagation	-----	3	Agr. 202—Farm Practices	-----	3
Agr. 217—Soil Conservation	-----	3	Agr. 235—Farm Management	-----	4
Bot. 321—Plant Pathology	-----	3	Zool. 216—Animal Communities	-----	4
C. E. 211—Topographic Surveying	-----	2	Electives	-----	6
Zool. 219—General Entomology	-----	4			17
		15			

BACHELOR OF SCIENCE IN COMMERCE

All students following programs of study leading to the degree of Bachelor of Science in Commerce must take the basic subjects indicated in the sophomore, junior, and senior programs of the curriculum outlined below. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The core curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in commerce and economic subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the Dean of the College or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who follows a program of studies leading to the degree of Bachelor of Science in Commerce automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however,

*Not required for students who have had 3 years of vocational agriculture in high school.

additional specialization may prove desirable, especially when a student seeks employment, and it is recommended. Some of the fields which may be stressed are listed below. Others based on a student's particular interest may be developed.

ACCOUNTING

General accounting
Cost accounting
Public (C.P.A.) accounting

BUSINESS LAW**DISTRIBUTION**

Marketing
Advertising
Retailing
Selling and sales management
Transportation

ECONOMICS

Economic history
Economic theory
Business cycles
General
International
Labor relations
Public utilities

FINANCE

Banking
Business finance
Insurance
Investments

GOVERNMENT

Economic control
Fiscal policy

MANAGEMENT

Personnel
Production

**PREPARATION FOR LAW SCHOOL
STATISTICS**

Detailed information about the possibilities of developing a special interest may be obtained from the office of the Dean.

CURRICULUM IN COMMERCE

The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 69 and 76.

Freshman Program

The freshman program will be determined largely by the requirements of the University College. Courses suggested for consideration but not required in the curriculum are: Ec. 1—Economic Development of the United States; Ec. 3—Contemporary Economic Society; Geog. 15—Economic Geography; and Soc. 1—General Sociology. Acct. 75-76—Elementary Accounting, which is a curriculum requirement, is strongly recommended for the freshman year, especially for those students who plan to specialize in this field.

Sophomore Program

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
Mkt. 155—Marketing Principles	3	Advt. 155—Advertising Principles†	3
Electives	4	Eng.—Elective*	3
	16	Electives	2
			17

Junior Program

Bus. L. 255—Business Law	3	Bus. L. 256—Business Law	3
Mgt. 301—Production Management†	3	Ec. (advanced)—Elective*	2-3
Stat. 255—Business Statistics	3	Stat. 256—Business Statistics	3
Sec. St. 220—Business Communications	3	Electives	8
Electives	4		16-17
	16		

Senior Program

Bus. L. 275—Government and Business*	3	Electives	17
Electives	14		17
	17		

*May be taken either semester.

†Mgt. 312 may be substituted.

‡Mkt. 258 or Mkt. 301 may be substituted.

PREPARATION FOR LAW SCHOOL. A student in the College of Commerce who plans to enter law school should follow the Bachelor of Science in Commerce degree curriculum and also elect, with the approval of his adviser, courses in other fields especially American government, American and English history, English, philosophy, and public speaking.

A student who plans to enter law school before graduation from the College of Commerce may still receive the Bachelor of Science in Commerce degree, provided the following conditions are met: (1) the student has the written approval of the Dean; (2) the requirements of the University College are met; (3) a minimum of 94 approved semester hours are completed with a point-hour ratio of at least 2.0 in all hours earned; and (4) a full year's work in an accredited law school is completed with at least an average grade of C or its equivalent and is eligible for advancement without condition to the second year.

PERSONNEL MANAGEMENT IN INDUSTRY. The College of Commerce has designed a field of specialization which will prepare the student for personnel-management work either in industry or government service. Courses recommended for this field are: Principles of Economics, Labor Economics, Labor Legislation, Production Management, Administration of Personnel, Industrial Relations, Wage and Salary Administration, Production Planning and Control, Personnel Management Problems, Advanced Production Problems, Office Management, Business Statistics, Analysis of Statistical Data, Public Administration, Administrative Law, Human Relations, Psychological Approach to Everyday Problems, Counseling and Psychotherapy, Employee Selection and Placement, Industrial Psychology, Personnel and Vocational Counseling, Social Problems, Urban Communities, and Industrial Sociology.

The student should choose among these courses upon the advice and guidance of his faculty adviser. For additional information, see "Management" under "Courses of Instruction."

OFFICE MANAGEMENT. Students interested in office management should take the core curriculum for the Bachelor of Science in Commerce degree as well as Office Management, Office Procedures, Office Machines, and Typewriting. In consultation with the faculty adviser, other courses should be selected from the following areas: Accounting, Management, Psychology, Sociology, Government, and Speech.

INDUSTRIAL ENGINEERING OPTION IN MECHANICAL ENGINEERING. In recognition of the increasing need that executives in industry have a knowledge of and training in economics and business management, the College of Applied Science in cooperation with the College of Commerce offers an optional curriculum in Industrial Engineering leading to the degree of Bachelor of Science in Mechanical Engineering. This curriculum is listed under the College of Applied Science.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

The curriculum leading to the degree of Bachelor of Science in Secretarial Studies is designed to give the student: (1) high proficiency

in the secretarial skills, (2) an understanding of the basic business areas, and (3) a well-rounded background in cultural subjects. Persons completing the work for the degree are trained to take responsible secretarial positions. Their technical skills and training also may be used as a stepping stone to other positions in business.

For those who enter without high school credit in typewriting and shorthand, the number of hours required in secretarial, commerce, and economic subjects is 71, and the minimum number of semester hours required in other fields is 47.

Students entering with high school credits in typewriting or shorthand should enroll in the advanced classes in these subjects. Whenever a student is unable to meet the prerequisite standard of achievement for the advanced courses in shorthand or typewriting, he may change to the beginning courses in these subjects. The hours of credit earned, however, will be added to the hours for graduation.

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

Before students are recommended for the Bachelor of Science in Secretarial Studies degree, they must pass proficiency tests in shorthand and typewriting. These tests are similar to those given in business for the selection of employees.

CURRICULUM IN SECRETARIAL STUDIES

The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 69 and 76.

Freshman Program

The freshman program will be determined largely by the requirements of the University College. Courses suggested for consideration but not required in the curriculum are: Ec. 1—Economic Development of the United States; Ec. 3—Contemporary Economic Society; Geog. 15—Economic Geography; and Soc. 1—General Sociology. Sec. St. 15-16—Typewriting and Sec. St. 31-32—Shorthand are curriculum requirements and should be included in the freshman program except for those students who enter with high school credits in these subjects.

Sophomore Program

First Semester		Hours	Second Semester		Hours
Acct. 75—Elementary Accounting	-----	3	Acct. 76—Elementary Accounting	-----	3
Ec. 101—Principles of Economics	-----	3	Ec. 102—Principles of Economics	-----	3
Sec. St. 172—Filing Systems and Procedures	-----	1	Sec. St. 111—Advanced Typewriting	-----	2
Sec. St. 180—Office Machines	-----	2	Sec. St. 181—Office Procedures	-----	2
Psych. 1—General Psychology	-----	3	Eng.—Elective*	-----	3
Electives	-----	4	Electives	-----	3
		16			16

Junior Program

Mkt. 155—Marketing Principles†	-----	3	Advt. 155—Advertising Principles‡	-----	3
Sec. St. 220—Business Communications	-----	3	Sec. St. 173—Machine Transcription	-----	1
Sec. St. 151—Beginning Dictation and Transcription	-----	5	Sec. St. 285—Office Management	-----	3
Eng.—Elective	-----	3	Sec. St. 152—Advanced Dictation and Transcription	-----	5
Electives	-----	2-3	Electives	-----	4-5
		16-17			16-17

*May be taken any semester.

†Mkt. 253 or Mkt. 301 may be substituted.

‡See footnote at bottom of next page.

Senior Program	
Mgt. 312—Administration of Personnel -----	3
Bus. L. 255—Business Law -----	3
Fin. 121—Business Finance† -----	3
Electives -----	8
	17
	3
	3
	4
	7
	17

PREPARATION OF SECRETARIES FOR SPECIALIZED FIELDS. Students may prepare themselves to do secretarial work in specialized offices; such as legal, medical, governmental, educational, merchandising or advertising. These students follow the secretarial studies curriculum and, in addition, select courses from a prescribed group considered basic for training in the specialized field. Careful guidance in the selection of elective courses is given by the college adviser.

BUSINESS TEACHER TRAINING. Students trained to teach business subjects in the high school should be as well prepared in the basic business and technical subjects as those trained to enter business offices. In order to prepare students for effective teaching of business subjects, the College of Education in cooperation with the College of Commerce offers comprehensive majors in the business fields. These majors, which include bookkeeping-social business, business education, economics, and stenography-typing, are outlined under the "College of Education," page 134 and also under the heading, "Teaching Certificates," page 140.

Students preparing to teach are expected to meet the same standards as those entering business, and they are required to pass a proficiency test in shorthand and in typewriting before they are recommended for graduation. Students also are given an opportunity to apply their skills and knowledge through actual working experiences.

BACHELOR OF SCIENCE IN JOURNALISM

The Ohio University School of Journalism is accredited by the American Council for Education in Journalism—one of the thirty-nine accredited schools and departments in the United States. Five sequences are offered: *Advertising-Management*, *Feature and Pictorial Journalism*, *News Writing and Editing*, *Public Relations*, and *Radio-TV Journalism*. In addition to these sequences, several programs of study are possible, including such areas as industrial journalism, foreign correspondence, scientific writing, and other specialized fields. While working toward their degrees, students serve on the staff of the *Athens Messenger*, an independently owned daily newspaper. The city editor, managing editor, and advertising manager are part-time faculty members of the School of Journalism. Here the students gather and write news, edit copy, write headlines, and prepare advertising copy as student staff members of the *Messenger*. This training not only provides college credit, but it prepares them for good jobs immediately upon graduation.

In Radio-TV Journalism, students get practical experience preparing and broadcasting news over WOUI, the University's AM and FM station. Practical experience also is available in the University News

†It is suggested that these foundation courses be carried in the third and 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.

Bureau, in the Photography Department, and in the journalism laboratories. A complete UP Teletype service is available for all journalism students. The Bachelor of Science in Journalism graduate, therefore, is trained in all processes of the journalistic profession.

A broad, cultural background is stressed for all students enrolled in journalism. Emphasis is placed upon literature, economics, music, philosophy, psychology, sociology, government, and human relations.

All sequences permit students to choose electives in any fields they may desire. The requirements for the various curricula are drawn from the University College, the various degree-granting colleges, and the School of Journalism.

INTERNSHIP PROGRAM. Consistent with its policy of combining classwork with practical training, the School of Journalism has inaugurated a Journalism Internship Program. Juniors or seniors who have ranked high in their courses are eligible for appointment as interns. The period of internship is ten weeks or more during the summer. The intern is provided with as varied experience in practical journalism as possible. The intern will be paid a moderate sum for his work and study. No credit will be granted for the internship work itself. However, upon completion of the internship period, a student is permitted to enroll the following semester in Jour. 370—Internship, 3 hours credit. The selection of the interns is made by the Director of the School of Journalism.

CURRICULA IN JOURNALISM

The university requirements pertaining to English composition, physical education, and speech are not indicated in the following programs and sequences. See pages 69 and 76.

Basic Journalism Courses Required In All Sequences

Jour. 105—History of American Journalism (3) or	Jour. 217—Newspaper and Magazine Editing (3) or
Radio 79—Introduction to Radio-TV (Radio-TV Sequence) ----- 2	Radio 280—Radio-TV News Writing and Editing (Radio-TV Sequence) 2
Jour. 107—Newspaper Reporting ----- 3	Jour. 251—Contemporary Thought and Developments ----- 3
Jour. 111—Reporting Practice (3-6) or	
Jour. 277—Newspaper Advertising Practice ----- 3-6	

Non-journalism courses required include: economics, 6 hours; sociology, 3 hours, except for Advertising-Management sequence.

Freshman Program

The Freshman Program will conform largely with the requirements of the University College. In the University College all journalism students should take Hist. 1, 2—Western Civilization in Modern Times (6); Psych. 1—General Psychology (3); and Sec. St. 15—Typewriting (2), unless they can operate a typewriter efficiently. All students, except those in Advertising-Management, should take F. A. 17—Introduction to the Fine Arts (3), or 2 semesters of a foreign language. If a student chooses science, he should take Biol. 1,2—The Living World (6), or Phys. 3,4—The Physical World (6).

ADVERTISING-MANAGEMENT

Sophomore Program

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting*	3	Acct. 76—Elementary Accounting* (Mgt.)	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Mkt. 155—Marketing Principles	3	Advt. 155—Advertising Principles	3
Jour. 105—History of American Journalism	3	Jour. 107—Newspaper Reporting	3

*Accounting 75-76 may be taken by freshmen.

Junior Program

Jour. 146—Typography, Mechanics, and Make-Up -----	3	Advt. 286—Retail Advertising (Advt.) -	3
Mkt. 301—Retail Selling Policies (Advt.) -----	3	Jour. 217—Newspaper and Magazine Editing -----	3
Radio 309—Radio-TV Advertising and Management (Advt.) -----	3	Jour. 247—Newspaper Advertising and Layout -----	3
Bus. L. 255—Business Law (Mgt.) -----	3	Jour. 348—Advertising Production (Advt.) -----	2

Senior Program

Jour. 251—Contemporary Thought and Developments -----	3	Jour. 277—Newspaper Advertising Practice (Advt.) -----	3
Jour. 277—Newspaper Advertising Practice -----	3	Jour. 306—Newspaper and Communica- tions Law (2) or	
Advt. 332—Copy Writing (Advt.) -----	2	Jour. 308—Journalism Ethics -----	2
Stat. 255—Business Statistics (Mgt.) --	3	Jour. 343—Newspaper Management ---	2
		Mgt. 312—Administration of Personnel (Mgt.) -----	3

FEATURE AND PICTORIAL JOURNALISM

Sophomore Program

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Eng. 101—Sophomore English Literature (3) or		Eng. 102—Sophomore English Literature (3) or	
Eng. 111—Chief American Writers ----	3	Eng. 112—Chief American Writers ----	3
Jour. 105—History of American Journalism -----	3	Jour. 107—Newspaper Reporting -----	3
Soc. 1—General Sociology -----	3	Jour. 146—Typography, Mechanics and Make-Up -----	3

Junior Program

Photog. 77—Basic Photography -----	3	Jour. 217—Newspaper and Magazine Editing -----	3
Eng. 290—Advanced Writing -----	3	Jour. 230—Reviewing and Criticism ---	3
Jour. 111—Reporting Practice -----	3	Photog. 133—News Photography -----	2
Jour. 251—Contemporary Thought and Developments -----	3		

Senior Program

Jour. 221—Editing Practice (2) or Photog. 145—Workshop in Photography (3) -----	2-3	Jour. 308—Journalism Ethics (2) or	
Jour. 322—Feature and Magazine Writing -----	3	Jour. 306—Newspaper and Communica- tions Law -----	2
Jour. 325—The Editorial Page -----	3	Jour. 323—Advanced Feature and Magazine Writing -----	2

NEWS WRITING AND EDITING

Sophomore Program

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Jour. 105—History of American Journalism -----	3	Jour. 107—Newspaper Reporting -----	3
Soc. 1—General Sociology -----	3	Jour. 146—Typography, Mechanics and Make-Up -----	3
Radio 79—Introduction to Radio-TV ---	2		

Junior Program

Jour. 217—Newspaper and Magazine Editing -----	3	Jour. 111—Reporting Practice -----	3
Jour. 251—Contemporary Thought and Developments -----	3	Advt. 155—Advertising Principles -----	3
Jour. 343—Newspaper Management -----	2	Photog. 133—News Photography -----	2
Photog. 77—Basic Photography -----	3		

Senior Program

Jour. 111—Reporting Practice -----	3	Jour. 221—Editing Practice -----	2
Jour. 221—Editing Practice -----	2	Jour. 306—Newspaper and Communica- tions Law -----	2
Jour. 307—Reporting of Public Affairs -	2	Jour. 308—Journalism Ethics -----	2
Jour. 325—The Editorial Page -----	3		

PUBLIC RELATIONS

Sophomore Program

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Jour. 105—History of American Journalism	3	Jour. 107—Newspaper Reporting	3
Advt. 155—Advertising Principles	3	Soc. 1—General Sociology	3
		Jour. 146—Typography, Mechanics, and Make-Up	3

Junior Program

Speech 3—Public Speaking	2	Jour. 217—Newspaper and Magazine Editing	3
Jour. 111—Reporting Practice	3	Jour. 247—Newspaper Advertising and Layout	3
Jour. 251—Contemporary Thought and Developments	3	Radio 79—Introduction to Radio-TV	2
Photog. 77—Basic Photography	3		

Senior Program

Jour. 327—Public Relations Techniques	2	Jour. 306—Newspaper and Communications Law (2) or	
H. R. 303—Human Relations	3	Jour. 308—Journalism Ethics	2
Jour. 348—Advertising Production	2	Jour. 329—Industrial and Business Journalism	2
		Advt. 332—Copy Writing	2
		Jour. 328—Public Relations	3

RADIO-TV JOURNALISM

Sophomore Program

First Semester	Hours	Second Semester	Hours
Speech 2—Voice and Articulation	2	Jour. 107—Newspaper Reporting	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Soc. 1—General Sociology	3	Radio 79—Introduction to Radio-TV	2

Junior Program

Radio 80—Radio Speech	2	Radio 105—Radio Broadcasting Mechanics	2
Jour. 111—Reporting Practice	3	Radio 280—Radio-TV News Writing and Editing	2
Jour. 251—Contemporary Thought and Developments	3	Radio 309—Radio-TV Advertising and Management	3
Advt. 155—Advertising Principles	3		

Senior Program

Radio 125—Radio Play Production	3	Radio 285—Radio-TV News Practice	2
Radio 285—Radio-TV News Practice	2	Radio 247—Radio Workshop	2
Radio 316—Writing for Radio	2	Jour. 308—Journalism Ethics (2) or	
		Jour. 306—Newspaper and Communications Law	2

THE COLLEGE OF EDUCATION

HARRY E. BENZ

DEAN

Elementary Education
Secondary Education
Guidance and Counseling
Teaching Special Subjects
Combined Elementary-Secondary Education
School Administration and Supervision
Library Science
Research and Scientific Techniques
History and Philosophy of Education
Student Teaching and Observation and
Participation
Center for Educational Service
Teaching Certificates

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. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges, for positions as school principals, superintendents, or supervisors, and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge and the professional understanding and skill which are requirements for professional success.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, represents the completion of a program designed to develop in the student competence in three areas: in the broad awareness of the principal academic fields developed through a true university education; in the deeper study of the particular studies in which the student seeks the undergraduate mastery necessary for teaching these subjects; and in the understanding of the professional responsibilities of teaching, and demonstrated skill in meeting them.

The degree is granted upon completion of the general graduation requirements of the University (including a minimum of 124 semester hours with a point-hour ratio of 2.0 in all hours earned, and in addition a 2.0 average on all hours in the field of specialization), and of one of the approved programs of specialization in a field of educational service. These programs are of four main types:

Elementary education. This program prepares for teaching in kindergarten, primary, or intermediate grades, with specialization in one of these groups. Despite the recent considerable improvements in salary and other inducements, the demand for qualified elementary teachers in Ohio is expected to be about three times the supply for the next five or six years. (See page 127.)

Secondary education. This program prepares for teaching any of the academic fields in high school. Students planning to teach at this level will ordinarily be prepared in two or more minor teaching subjects, in addition to their major field. Such minors should be carefully selected in consultation with the student's adviser or the dean of the College of Education, in the light of the student's interest and of probable opportunities for employment. (See outlines for the state-required majors beginning on page 129 and the minors beginning on page 139.)

Teaching special subjects. Such special subjects as art, commerce home economics, industrial arts, music, physical education, or speech are ordinarily not limited to any grade level. Students who major in these subjects will be prepared to teach their specialty in both elementary and high school. Special subject majors are also required to have one minor. (See page 133.)

Combined elementary-secondary education. Through this comprehensive program, students are qualified both as elementary school teachers and as teachers of certain academic subjects in high school. Regular certification at both levels will be granted by the State Department of Education to graduates of this program, which thus gives the widest possible choice of employment opportunities. The broad preparation for teaching, without undue sacrifice of subject-matter specialization, is particularly appropriate for those students who look forward to posts of responsibility as supervisors or administrators. (See page 136.)

ELEMENTARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to specialize in elementary education; i.e., kindergarten-primary or intermediate grades:

Freshman Program

First Semester		Hours	Second Semester		Hours
Ed. 3—Introduction to Education	-----	2	Eng. 4—English Composition	-----	3
Eng. 3—English Composition	-----	3	Hist. 2—Western Civilization in	-----	3
Hist. 1—Western Civilization in	-----	3	Modern Times	-----	3
Modern Times	-----	3	Biol. 2—The Living World	-----	3
Psych. 1—General Psychology	-----	3	Psych. 5—Educational Psychology	-----	3
Biol. 1—The Living World	-----	3	Mus. 72—Music Fundamentals	-----	2
P. E.—Physical education	-----	1	Speech 1—Fundamentals of Speech	-----	1
			P. E.—Physical education	-----	1

Sophomore Program

Phys. 3—The Physical World	-----	3	Geog. 250—Geography and Environment	-----	3
Ed. 103—Studies of Children	-----	3	Govt. 6—Current Political and	-----	2
Soc. 207—Educational Sociology	-----	3	Social Problems	-----	2
Mus. 266e—Teaching of Music	-----	2	Design 3—Elementary Design for	-----	2
in Elementary Grades	-----	2	Teachers	-----	2
P. E.—Physical education	-----	1	P. E.—Physical education	-----	1
Electives	-----	4	Electives	-----	8

Junior Program

Ed. 102—Literature for Children	-----	3	Ed. 169f—Teaching of Social Studies	-----	3
Ed. 163b—Teaching of Reading and	-----	3	and Science in the Elementary	-----	3
Language	-----	3	School	-----	3
Ed. 163j—Teaching Arithmetic in	-----	3	Ed. 210—Student Teaching Laboratory	-----	4
the Elementary School	-----	3	Ed. 272—Student Teaching in the	-----	7
Design 160c—Practical Design Workshop	-----	3	Elementary Grades	-----	7
for Elementary Teachers	-----	3	Electives	-----	2
P. E. 102—Personal and Community	-----	3			
Health	-----	3			

Senior Program

Ed. 101—Materials and Methods in	-----	2	Eng. 111 or 112—Chief American	-----	3
Kindergarten-Primary Education	-----	2	Writers	-----	3
(required of Kindergarten Teachers)	-----	2	Fin. 75—Personal Finance	-----	2
Ed. 277—Field Experience in	-----	1-3	Hist. 101 or 102—History of the	-----	3
Student Teaching	-----	1-3	United States	-----	3
Ed. 211—The Child and the Curriculum	-----	3	Electives	-----	7
P. E. 267d—Teaching of Physical	-----	1			
Education	-----	1			
Electives in education	-----	2			
Electives	-----	8			

SPECIAL CADET PROGRAM

To assist in meeting the critical shortage of elementary teachers, Ohio University will tentatively continue to offer a special two-year program. *The four-year provisional "cadet" certificate is granted upon the satisfactory completion of this accelerated course.* The work includes a broad liberal background, and concentration on direct professional preparation and supervised experience. Only those high school graduates who are superior both in academic aptitude and in social maturity, are encouraged to enter this program, which should be pursued in four successive regular semesters.

The program for the Cadet Provisional Certificate is as follows:

Freshman Program

First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Hist. 1 or 2—Western Civilization in Modern Times	3	Ed. 102—Literature for Children	3
Biol. 1—The Living World	3	Biol. 2—The Living World	3
Psych. 1—General Psychology	3	Mus. 72—Music Fundamentals	2
Speech 1—Fundamentals of Speech	1	Hist. 101 or 102—History of the United States	3
Design 160c—Practical Design Workshop for Elementary Teachers	2	P. E. 102—Personal and Community Health	3
P. E.—Physical education	1		

Sophomore Program

Ed. 102—Studies of Children	3	Ed. 169f—Teaching of Social Studies and Science	3
Ed. 163b—Teaching of Reading and Language	3	Ed. 210—Student Teaching Laboratory	4
Ed. 163j—Teaching of Arithmetic	3	Ed. 272—Student Teaching	7
Mus. 266e—Teaching of Music in Elementary Grades	2	Electives	2
Geog. 250—Geography and Environment	3		
P. E.—Physical education	1		
Electives	2		

SPECIAL EDUCATION

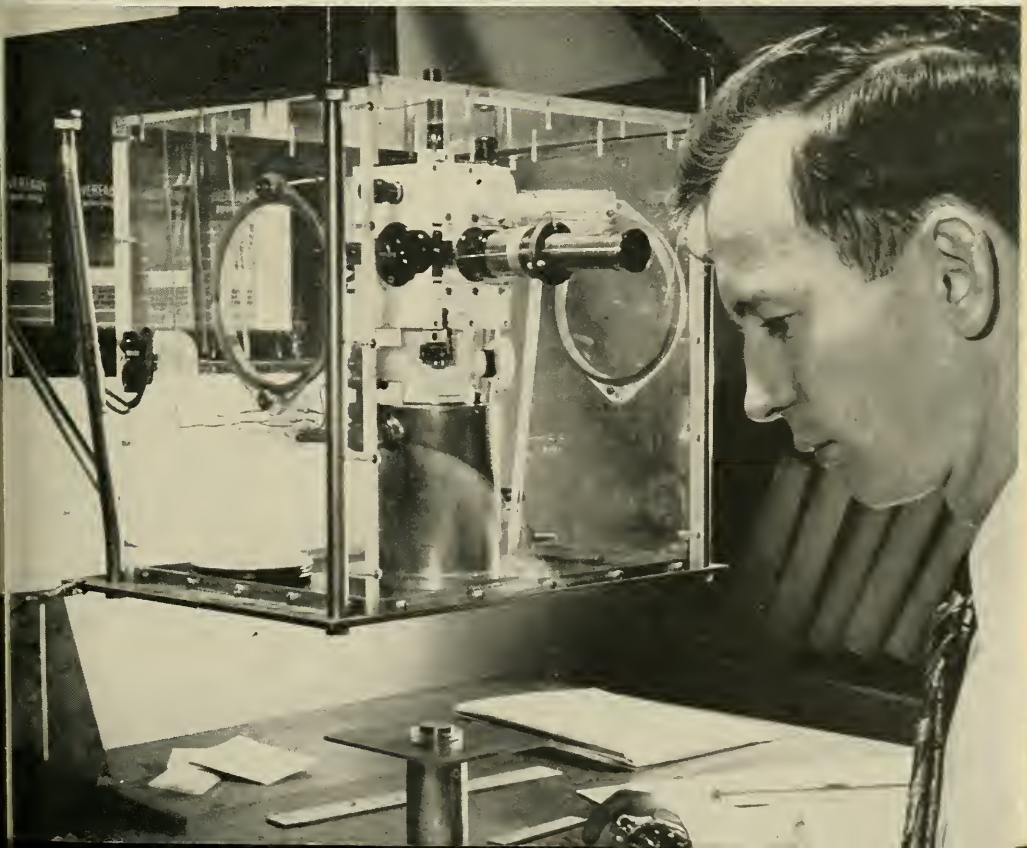
The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to qualify as teachers of special classes.

Freshman Program

First Semester	Hours	Second Semester	Hours
Ed. 3—Introduction to Education	2	Eng. 4—English Composition	3
Eng. 3—English Composition	3	Soc. 1—General Sociology	3
Hist. 1 or 2—Western Civilization in Modern Times	3	Biol. 2—The Living World	3
Biol. 1—The Living World	3	Psych. 3—Child Psychology (3) or Psych. 5—Educational Psychology (3)	3
Psych. 1—General Psychology	3	Mus. 71—Introduction to Music for Elementary Teachers	2
P. E.—Physical education	1	Speech 1—Fundamentals of Speech	1
		P. E.—Physical education	1

Sophomore Program

Govt. 1—American Government	3	Eng. 102—Sophomore English Literature (3) or Eng. 112—The Chief American Writers (3)	3
Mus. 72—Music Fundamentals	2	Ed. 266e—Teaching of Music	2
Design 3—Elementary Design for Teachers	2	Ed. 223—Curriculum for Special Classes	3
Ed. 222—Diagnostic and Remedial Instruction in Elementary Subjects	2	Ed. 102—Literature for Children	3
Zool. 107—Principles of Heredity	3	Ed. 160c—Practical Design Work- shop for Elementary Teachers	3
H. Ec. 155—Home Economics for the Elementary School	2	Ind. A. 115—Industrial Arts for the Elementary School	1
P. E.—Physical education	1	P. E.—Physical education	1





Junior Program

Ed. 163j—Teaching of Arithmetic in the Elementary School	3	Ed. 163b—Teaching of Reading and Language	3
Geog. 250—Geography and Environment	3	Ed. 169f—Teaching of Social Studies and Sciences in the Elementary School	3
P. E. 102—Personal and Community Health	3	Ed. 210—Student Teaching Laboratory	4
Ed. 321—Organization of Special Classes for Handicapped Children	2	Ed. 272—Student Teaching in Elementary Grades	5
Psych. 304—Psychology of Exceptional Children (2) or		Electives	2
Psych. 316—Psychology of Individual Differences (2)	2		

Senior Program

Ed. 350—The History of Education (3) or		Ed. 360—Guidance Principles (3) or	
Ed. 354—Philosophy of Education (3)	3	Ed. 385—Educational Measurements (3)	3
Soc. 234—Child Welfare	3	Psych. 303—Mental Measurements	3
Hist. 101 or 102—History of United States	3	Soc. 322—Juvenile Delinquency	3
Psych. 310—Mental Hygiene	3	Govt. 6—Current Political and Social Problems	2
Electives	3	Electives	5

SECONDARY EDUCATION

The following are the *general requirements* for all students in the College of Education who plan to specialize in the teaching of the *academic subjects* in high school.

1. Education and Psychology	23-24
Ed. 3—Introduction to Education	2
Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	4
Ed. 228—Principles of Teaching	3
Ed. 270—Senior Conference	2
Ed. 281—Observation and Student Teaching in High School	7
Special Methods (See Major)	2-3
2. English	12
Eng. 3-4—English Composition	6
Eng. 101 or 102, and 111 or 112	6
3. Humanities (one year in one field, as required by University College)	
4. Speech 1—Fundamentals of Speech	1
5. Physical Education	1-4
(See page 69.)	
6. Military Science	
(See page 70.)	
7. Science or Mathematics	6-10
(One year in one field)	
Biology, Botany, Zoology;	
Mathematics; Chemistry; Physics; Geology	
8. Social Studies	12
History and Government (at least 6 hrs.)	
Economics, Sociology, Geography or Gen. Stud. 9, 10—Citizenship in the Modern World.	

Specialization requirements for a major in academic high school subjects.

Agriculture

Select 27 semester hours in agriculture:

Agr. 1—General Agriculture	3	Agr. 124—General Dairying	3
Agr. 3—Forestry	3	Agr. 127—Poultry Production	3
Agr. 102—Vegetable Gardening	3	Agr. 201, 202—Farm Practices	6
Agr. 103—Fruit Growing	3	Agr. 217—Soil Conservation	3
Agr. 104—Small Fruits	3	Agr. 225—Animal Nutrition	3
Agr. 109—Landscape Gardening	3	Agr. 235—Farm Management	4
Agr. 115—Soils and Fertilizers	3	Agr. 243—Animal Breeding	3
Agr. 116—Field Crops	3	Bot. 3, 4—General Botany	6
Agr. 121—Livestock Production	3	Chem. 1 or 3—General Chemistry	4
		Ed. 268a—Teaching of Agriculture	3
		Zool. 3-4—Principles of Zoology	6

Art

Design 11-12—Basic Design	4	Design 137—Costume Design	2
Paint. 28—Figure Drawing	2	Design 271—Interior Design	3
Paint. 45-46—Basic Representation	4	Paint. 209—Prints	3
Design 113—Lettering	3	Design 240—Design Applied to Materials	2
Design 120—Textile Design	3	Arch. 55—Fundamentals of Architecture	3
Sculp. 115—Ceramics	3	Ed. 260h—Teaching of Art	3
Paint. 117—Form and Composition	3	Elective—5 hours from:	
Paint. 118—Water Color	3	Paint. 71, 75, 76, or Design 107	
Photog. 77—Basic Photography	2		
F. A. 121-122—History of Painting and Sculpture	6		
Design 123—Jewelry	2		

Biological Science

Bot. 3-4—General Botany	6	Zool. 235—Elements of Physiology	4
Bot. 105—Elementary Plant Physiology (3) or Bot. 306—General Plant Physiology (4)	3-4	One of the following:	3-4
Bot. 106—Spring Flora (3) or Bot. 315—Systematic Botany (3)	3	Zool. 107—Principles of Heredity (3)	
Bot. 111—Plant Anatomy (3) or Bot. 173—Elementary Plant Morphology (3) or Bot. 313—General Plant Morphology (3)	3	Zool. 113—Biology of Vertebrates (4)	
Zool. 3-4—Principles of Zoology	6	Zool. 118—Ornithology (3)	
		Zool. 216—Animal Communities (4)	
		Zool. 219—General Entomology (4)	

Social Science—Economics

Geog. 15—Economic Geography	3	Ec.—Approved electives	10
Ec. 101-102—Principles of Economics	6	Ed. 269h—Teaching of Social Studies in Junior and Senior High Schools	2
Ec. 330—Development of Economic Thought	3	Govt. 1, 2, 101 or 102	3
		Soc. 1—General Sociology	3

English

Eng. 3-4—English Composition	6	Ed. 264e—Teaching of English in High School	3
Eng. 101, or 102 and 111 or 112	6	Additional electives suggested from the fields of library science, dramatic arts, speech correction, or journalism.	
Eng.—Approved electives	16		
Elective in library science	2-3		

French

Fr. 1-2—Beginning French	8	Ed. 265r—Teaching of Foreign Languages	2
Fr. 101-102—Intermediate French	8	Two years of another foreign language*	12-16
Fr.—Approved electives	14		

Social Science—Geography

Geog. 3-4—Elements of Geography (6) or Geog. 250—Geography and Environment (3)	6-3	Ed. 269h—Teaching of Social Studies in Junior and Senior High Schools	2
Geog. 15—Economic Geography	3	Ec. 101—Principles of Economics	3
Geog. 202—Geography of the United States and Canada	3	Soc. 1—General Sociology (3) and Soc. 101—Social Problems (3) or Soc. 5—Rural Sociology (2)	6-5
Geog. 205—Geography of Latin America	3	Govt. 1 or 2—American Government (3) and Govt. 5—American Democracy (3)	6
Geog. 231—Geography of Ohio	2		
Geog. 232—Conservation of Natural Resources	3		

*For state requirements for teaching minor, see page 139.

German

Ger. 1-2—Beginning German	8	Ger.—Approved electives	10
Ger. 101-102—Intermediate German	8	Ed. 265r—Teaching of Foreign	
Ger. 209-210—German Grammar and		Languages	2
Composition	4	Two years in another foreign	
		language*	12-16

Guidance and Counseling**

Students majoring in guidance will also prepare to teach in two or more regular subjects and complete all other requirements for the degree. Upon graduation, they are prepared for participation in limited aspects of guidance service and should plan to complete their preparation by graduate study, taken usually after they have gained teaching experience. Certification in Guidance Counseling is granted by the state on the completion of the undergraduate program outlined below, and fifteen or more hours of graduate credit in guidance and three years of experience.

Students who wish a guidance *minor* will select only the courses marked with a dagger (†). The minor is intended for those preparing to teach in elementary or secondary schools who may wish eventually to qualify for positions as counselors or guidance directors. It constitutes a sufficient start on one's professional preparation in guidance to enable one to carry out more effectively the work of the teacher-counselor.

Ed. 103—Studies of Children†	3	Psych. 310—Mental Hygiene	3
Ed. 360—Guidance Principles†	3	Soc. 1—General Sociology	3
Ed. 361—Guidance Practice†	3	Soc. 207—Educational Sociology	3
Ed. 362—Information Service in		Ec. 1—The Economic Development	
Guidance†	2	of the United States (3) and	
Ed. 385—Educational Measurements†	3	Ec. 3—Contemporary Economic	
Psych. 113—Psychology of Adolescence	2	Society (3) or	
Psych. 131—Employee Selection and		Ec. 101-102—Principles of Economics	6
Placement†	2		

History and Government

Govt. 1, 2—American Government	6	Hist. 101, 102—History of the	
Hist. 1, 2—Western Civilization in		United States	6
Modern Times	6	History and Government—Approved	
Ed. 269h—Teaching of Social Studies		electives	10
in Junior and Senior High			
Schools	2		

Latin

For those entering with 4 years of Latin:

Lat. 122—Writing Latin Prose	1	Lat. 304—Livy and Ovid	3
Lat. 151—Familiar Essays	3	Lat. 331—The Life of the Romans	2
Lat. 152—Horace and Terence	3	Lat. and Gk.—Approved electives	8-10
Lat. 303—Pliny and Martial	3	Ed. 265r—Teaching of Foreign	
		Languages	2
		Two years of another foreign	
		language*	12-16

For those entering with 2 years of Latin:

Lat. 101—Latin Review and	
Reading (4)	
Lat. 102—Vergil (4)	
and 19 hours from the above	

*For state requirements for teaching minor, see page 139.

**See, also personnel courses in "Education (Guidance and Counseling)," "Human Relations," "Psychology," and "Sociology" under "Courses of Instruction."

Library Science

(Minor for teacher-librarians)

Lib. Sci. 191—History of Libraries and the Use of Library Resources	3	Lib. Sci. 194—History of Books and Printing	3
Lib. Sci. 192—Classification and Cataloging of Books	2	Lib. Sci. 392—Advanced Library Administration	4
Lib. Sci. 291—The School Library	3	Lib. Sci. 393—Administrative Problems in a School Library	3

Mathematics

Math. 5-6—Freshman Mathematics	10	Astron. 11 or 12—Elementary Astronomy or	
Math. 101—Differential Calculus	4	Math. 34—Mathematics of Finance or	
Math. 102—Integral Calculus	4	Math. 107—Elementary Statistics or	
Math. 104—College Geometry	3	Math. 301—Theory of Equations	2-3
Ed. 263s—Teaching of Arithmetic in the Upper Grades	3	Ed. 268m—Teaching of Mathematics in High School	2-3
		Ed. 381—Educational Statistics	3

Physical Science

Chem. 3-4—General Chemistry or		Math. 5-6—Freshman Mathematics or	
Chem. 1-2—General Chemistry and		Chem. 113—Organic Chemistry and	
Chem. 105—Qualitative Analysis	5-11	Chem. 117—Organic Chemistry Laboratory	6-10
Phys. 5, 6—Introduction to Physics or		Ed. 268s—Teaching of Chemistry and Physics	2
Phys. 113, 114—General Physics	8	Electives in chemistry or physics	12

Psychology**

Psych. 1—General Psychology	3	Psych. 304—Psychology of Exceptional Children (2)	
Psych. 3—Child Psychology or		Psych. 305—An Introduction to Psychodiagnosis (3)	
Psych. 5—Educational Psychology	3	Psych. 309—Motivation and Emotions (3)	
Psych. 113—Psychology of Adolescence	2	Psych. 317—Psychology of Personality (3)	
Psych. 303—Mental Measurements	2	Psych. 333—Learning and Memory (3)	
Psych. 310—Mental Hygiene	3	Psych. 337—Counseling and Psychotherapy (3)	
Psych. 320—Personnel and Vocational Counseling	2		
Psych. electives (to be chosen in consultation with a departmental adviser and selected from the following):	12		
Psych. 109—Experimental Psychology (3)			
Psych. 316—Psychology of Individual Differences (2)			

Science—Comprehensive Major

Biol. 1, 2—The Living World (6).		Astron. 11 or 12—Elementary Astronomy	3
Bot. 3-4—General Botany (6).		Phys. 5, 6—Introduction to Physics	8
Zool. 3-4—Principles of Zoology (6)	12	Ed. 268b—The Teaching of Biological Sciences or	
Chem. 1-2 or 3-4—General Chemistry	8	Ed. 268s—The Teaching of Chemistry and Physics	2
Geol. 1-2—Elements of Geology	6	Elective in science	3

Social Studies—Comprehensive Major

Gen. Stud. 9, 10—Citizenship in the Modern World	6	Govt. 1—American Government	3
Hist. 1 or 2—Western Civilization in Modern Times	3	Geog. 250—Geography and Environment	3
Ec. 3—Contemporary Economic Society or		Ed. 269h—Teaching of Social Studies in Junior and Senior High Schools	2
Ec. 101—Principles of Economics	3	Electives in social studies	13
Soc. 1—General Sociology	3		
Hist. 101, 102—History of the United States	6		

**Certification as School Psychologist is granted upon completion of an approved undergraduate program, such as the above, including completion of requirements for a teaching certificate, and an approved graduate program in psychology. Students who elect this major will, therefore, need to complete requirements in two teaching minors.

Social Science—Sociology

Soc. 1—General Sociology I: Principles	3	Soc. 322—Juvenile Delinquency	3
Soc. 2—General Sociology II: Modern American Communities	3	Ec. 101-102—Principles of Economics	6
Soc. 101—Social Problems	3	Ed. 269h—Teaching of Social Studies in Junior and Senior High Schools	2
Soc. 103—Rural Sociology (3) or	3	Geog. 15—Economic Geography	3
Soc. 204—Urban Communities (3)	3	Geog. 250—Geography and Environment	3
Soc. 308—Marriage and the Family	3	Gov. 1, 2, 101 or 102	3

Spanish

Sp. 1-2—Beginning Spanish	8	Ed. 265r—Teaching of Foreign Languages	2
Sp. 101-102—Intermediate Spanish	8	Two years of another foreign language*	12-16
Sp.—Approved electives	14		

TEACHING SPECIAL SUBJECTS

The following are the *general requirements* for students in the College of Education who plan to specialize in the teaching of the *special subjects*. Some minor variations of the Observation and Student Teaching program may be necessary. A special program for Speech and Hearing Therapy students will be found on page 135.

1. Education and Psychology**	19
Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	4
Ed. 228—Principles of Teaching	3
Ed. 270—Senior Conference	2
Ed. 281—Observation and Student Teaching	7
Special Methods (See Major)	
2. English	9
English 3-4—English Composition	6
English 101, 102, 111, or 112	3
3. Humanities (one year in one field, as required by University College)	
4. Speech 1—Fundamentals of Speech	1
5. Physical Education	1-4
(See page 69.)	
6. Military Science	
(See page 70.)	
7. Science or Mathematics	6-10
(One year in one field)	
Biology, Botany, Zoology;	
Mathematics; Chemistry; Physics; Geology	
8. Social Studies	9
History and Government (at least 6 hrs.)	
Economics, Sociology, Geography or Gen. Stud. 9, 10—Citizenship in the Modern World	

Specialization requirements for a major in special subjects:

Commerce—Bookkeeping-Social Business

Acct. 75-76—Elementary Accounting	6	Sec. St. 285—Office Management	3
Acct. 125—Intermediate Accounting	3	Mkt. 155—Marketing Principles	3
Bus. L. 255-256—Business Law	6	Mkt. 271—Principles of Personal Selling	2
Ec. 101-102—Principles of Economics	6	Fin. 101—Money and Credit	3
Geog. 15—Economic Geography	3	Com.—Approved electives	6
Sec. St. 180—Office Machines	2	Ed. 261b—Teaching of Bookkeeping	2

*For state requirements for teaching minor, see page 139.

**Special methods in the subject to be taught are not included in this total.

Commerce—Business Education

Acct. 75-76—Elementary Accounting	6	Sec. St. 172—Filing Systems and Procedures	1
Geog. 15—Economic Geography	3	Sec. St. 173—Machine Transcription	1
Ec. 101-102—Principles of Economics	6	Sec. St. 180—Office Machines	2
Sec. St. 15—Beginning Typewriting	2	Sec. St. 181—Office Procedures	2
Sec. St. 16—Intermediate Typewriting	2	Sec. St. 275—Secretarial Practice	4
Sec. St. 31—Beginning Shorthand	3	Sec. St. 285—Office Management	3
Sec. St. 32—Intermediate Shorthand	3	Bus. L. 255—Business Law	3
Sec. St. 151—Beginning Dictation and Transcription	5	Mkt. 155—Principles of Marketing	3
Sec. St. 220—Business Communications	3	Mkt. 271—Principles of Personal Selling	2
		Ed. 261st—Teaching of Secretarial Skills	3

Commerce—Stenography-Typing

Bus. L. 255—Business Law	3	Sec. St. 172—Filing Systems and Procedures	1
Geog. 15—Economic Geography	3	Sec. St. 173—Machine Transcription	1
Fin. 101—Money and Credit	3	Sec. St. 180—Office Machines	2
Sec. St. 15—Beginning Typewriting	2	Sec. St. 181—Office Procedures	2
Sec. St. 16—Intermediate Typewriting	2	Sec. St. 275—Secretarial Practice	4
Sec. St. 31—Beginning Shorthand	3	Sec. St. 285—Office Management	3
Sec. St. 32—Intermediate Shorthand	3	Com.—Approved electives (Accounting preferred)	6
Sec. St. 151—Beginning Dictation and Transcription	5	Ed. 261st—Teaching of Secretarial Skills	3
Sec. St. 220—Business Communications	3		

Dramatic Art and Speech

Speech 2—Voice and Articulation	2	Radio 5—Radio Speech	2
Speech 3—Public Speaking	2	Dram. A. 21—Elements of Stage Scenery	3
Speech 25—Principles of Argumentation	2	Dram. A. 48—Make-Up	1
Speech 34—Oral Interpretation of Literature	3	Dram. A. 99—Movement and Pantomime	2
Speech 112—Advanced Public Speaking	2	Dram. A. 107—Costuming	4
Speech 147—Workshop in Public Address	2	Dram. A. 123—Elements of Stage Lighting	3
Speech 195—Principles of Speech Correction	3	Dram. A. 299—Principles of Acting	3
Speech 320—Advanced Clinical Methods	3	Dram. A. 350—Play Direction	3
		Ed. 262h—Teaching of High School Dramatics and Speech	3

Home Economics

H. Ec. 1-2—Foods, Nutrition, and Meal Planning	6	H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 3-4—Clothing Selection and Construction	4	H. Ec. 334—Household Equipment	3
H. Ec. 5—Child Development	3	H. Ec. 351—Home Management	2
H. Ec. 6—Family Living	3	H. Ec. 353—Home Management Laboratory	3
H. Ec. 7—The Home and Its Furnishings	2	H. Ec. 368b—Demonstration Techniques	2
H. Ec. 8—Consumer Problems of the Family	2	Chem. 1-2 or 3-4—General Chemistry (8) or	
H. Ec. 72—Home Nursing and Family Health	2	Biol. 1-2—The Living World (6) or	
H. Ec. 110—Textiles	2	Zool. 3-4—Principles of Zoology (6)	6-8
H. Ec. 125—Family Nutrition	3	Humanities—Literature, philosophy, fine arts, or foreign language	6-8
H. Ec. 172—Advanced Child Development	2	Design 1,2—Beginning Design (4) or	
H. Ec. 268h—Teaching of Home Economics	3	Design 11-12—Basic Design (4) or	
H. Ec. 316—Tailoring	3	Design 91—Design and Composition (3)	3-4
H. Ec. 327—Quantity Cookery	3	Zool. 241—Elementary Bacteriology	4

Industrial Arts

Ind. A. 1-2—General Woodworking I and II	6	Ind. A. 141—Printing	3
Ind. A. 3—Practical Electricity	3	Ind. A. 309—Administration of the General Shop	3
Ind. A. 4—Practical Power and Transportation	3	Electives in industrial arts	8
Ind. A. 11—Duplicating	3	E. D. 1—Engineering Drawing	2
Ind. A. 13—General Cold Metals	3	E. D. 15—Industrial Arts Drawing	3
Ind. A. 14—General Hot Metals	3	Ed. 260m—Teaching of Industrial Arts	3
Ind. A. 105—Materials and Finishes	3	Chem. 1-2 or 3-4; Phys. 3, 4, or 5, 6, or	
Ind. A. 116—Constructive Design	2	Math. 5-6; One year in one subject	8-10
Ind. A. 131—Introduction to Ceramics	2		

By taking the core courses listed and appropriate electives, a specialization in Drawing, Graphic Arts, Metalworking, or Woodworking may be developed.

Music—General Supervision

Applied Music (16 hrs.):		Mus. 201—Analysis and Form	2
Mus.—Voice (must include completion of Voice 14)	4	Mus. 160—Introduction to Music Education	2
Mus.—Piano (must include completion of Piano 6)	4	Mus. 233—Instrumentation	3
Mus.—Additional study in selected fields of applied music	8	Mus. 261—String Techniques and Materials	2
Mus.—Chorus	4	Mus. 263—Wind and Percussion Techniques and Materials	2
Mus.—Participation elective (Chorus, Band, Orchestra)	2	Ed. 266f—Supervision of Music in the Elementary School	3
Mus. 3-4—Theory	6	Ed. 266j—Music in the Junior and Senior High School	3
Mus. 103-104—Dictation and Sight Singing	4	Mus. 265—Vocal Techniques and Materials	2
Mus. 105-106—Harmony	6	Mus. 273—Conducting	2
F. A. 123-124—History of Music	6		

Music—Instrumental Supervision

Applied Music (16 hrs.):		Mus. 103-104—Dictation and Sight Singing	4
Mus.—Major Instrument (must include completion of course 18)	8	Mus. 105-106—Harmony	6
Mus.—Minor Instrument (if minor instrument is wind, 3 hrs. must be in strings; if major instrument is stringed, 3 hours must be in winds)	4	F. A. 123-124—History of Music	6
Mus.—Piano (must include completion of Piano 4)	2-4	Mus. 160—Introduction to Music Education	2
Mus.—Band	4	Mus. 201—Analysis and Form	2
Mus.—Orchestra	4	Mus. 233—Instrumentation	3
Mus.—Chorus	1	Mus. 261—String Techniques and Materials	2
Mus. 3-4—Theory	6	Mus. 263-264—Wind and Percussion Techniques and Materials	4
		Mus. 266j—Music in the Junior and Senior High School	3
		Mus. 273—Conducting	2

Physical Education—Men

P. E. 65—Program Skills	2	P. E. 267f—Athletic Coaching	1-3
P. E. 66—Program Skills	2	P. E. 304—History and Principles	3
P. E. 102—Personal and Community Health	3	P. E. 306—Organization and Administration	2
P. E. 121—Program Skills	2	Zool. 3—Principles of Zoology	3
P. E. 122—Program Skills	2	Zool. 133-134—Anatomy, Kinesiology and Physiology	8
P. E. 127—First Aid	2	Ed. 103—Studies of Children	3
P. E. 135—Program Techniques	1	Ed. 267h—Teaching of Health	3
P. E. 150—Recreation	3		
P. E. 233—Theory of Adapted Activities	2		
P. E. 267e—Athletic Coaching	1-3		

Physical Education—Women

P. E. 1—Sports	1	P. E. 304—History and Principles	3
P. E. 6—Elementary Tap Dancing	1	P. E. 306—Organization and Administration	2
P. E. 7—Beginning Modern Dance	1	Zool. 3—Principles of Zoology	3
P. E. 4—Intermediate Swimming or	1	Zool. 133-134—Anatomy, Kinesiology and Physiology	8
P. E. 8—Intermediate Modern Dance	1	Ed. 103—Studies of Children	3
P. E. 17—Beginning Tennis	1	Ed. 267a—Coaching Methods	2
P. E. 102—Personal and Community Health	3	Ed. 267b—Coaching Methods	2
P. E. 121-122—Program Skills	4	Ed. 267h—Teaching of Health	3
P. E. 127—First Aid	2	Ed. 267n, 267o—Teaching of Rhythmic Activities	2
P. E. 131—Mass Games	1		
P. E. 150—Recreation	3		
P. E. 233—Theory of Adapted Activities	2		

Speech and Hearing Therapy

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students preparing to be teachers of speech and hearing therapy. This program meets the requirements in the State of Ohio for the special certificate in this field.

	Hours		Hours
Education and Psychology:		Speech:	
Ed. 130—Secondary Education	4	Speech 2—Voice and Articulation	2
Ed. 211—The Child and the Curriculum	3	Speech 3—Public Speaking	2
Ed. 262s—Speech and Hearing Therapy		Speech 25—Principles of Argumentation	2
in the Public Schools	2	Speech 34—Oral Interpretation of	
Ed. 236—Student Teaching in		Literature	3
Speech Correction	3	Speech 195—Principles of Speech	
Education electives from the following:	2-3	Correction	3
Ed. 103—Studies of Children (3)		Speech 307—Clinical Methods	
Ed. 360—Guidance Principles (3)		(Observation and Participation)	3
Ed. 270—Senior Conference	2	Speech 310—Speech Pathology	3
Psych. 1—General Psychology	3	Speech 312—Phonetics	3
Psych. 2—Child Psychology	3	Speech 319—Audiometry and Speech	
Psych. 3—Educational Psychology	3	and Hearing Problems	3
Psych. 303—Mental Measurements	3	Speech 320—Advanced Clinical Methods	3
Psych. 304—Psychology of		Speech 323—Lip Reading	3
Exceptional Children	2	Radio 5—Radio Speech	2
Psych. 310—Mental Hygiene	3	Dram. A. 10—Introduction to Theatre	2
Psychology electives from the		Additional general requirements:	
following:	5	Eng. 3-4—English Composition	6
Psych. 113—Psychology of		Social Studies (History, Government	
Adolescence (2)		Sociology, Economics, Geog-	
Psych. 316—Psychology of		raphy, Gen. Stud. 9, 10,—	
Individual Differences (2)		Citizenship in the Modern	
Psych. 337—Counseling and		World)	9
Psychotherapy (3)		Electives to bring total to 124 semester	
Eng. 101, 102, 111, or 112	3	hours required for graduation.	
Physical education	1-4		
Science or Mathematics (Biology, Bot-			
any, Zoology, Physics, Chem-			
istry, or Mathematics)	6-10		

COMBINED ELEMENTARY-SECONDARY EDUCATION

The following program includes the general requirements for students preparing to teach both in elementary and high schools. Deficiencies in the high school pattern will be added to this program. In addition, each student will be required to meet certification requirements in two high school teaching fields.

	Hours		Hours
Eng. 3-4—English Composition	6	Well distributed from the following:	6
Hist. 1, 2—Western Civilization in		Mus. 72—Music Fundamentals (2)	
Modern Times	6	Mus. 266e—Teaching of Music (2)	
Biology 1, 2—The Living World	6	Des. 3—Elementary Design for	
Phys. 3—The Physical World	3	Teachers (2)	
Soc. 1—General Sociology	3	Ed. 160c—Practical Design Work-	
Psych. 1—General Psychology	3	shop for Elementary Teachers	
Speech 1—Fundamentals of Speech	1	(2)	
P. E.—Physical education	1-4	H. Ec. 155—Home Economics for	
Eng. 101, 102, 111, or 112—Sophomore		the Elementary School (2)	
English Literature, or Chief		Ind. Arts 115—Industrial Arts for	
American Writers	3	the Elementary School (2)	
Psych. 5—Educational Psychology	3	Ed. 169f—Teaching of Social Studies	
Geog. 250—Geography and Environment	3	and Science in Elementary	
Ed. 103—Studies of Children	3	School	3
Ed. 102—Literature for Children	3	Ed. 272—Elementary Student Teaching	5
P. E. 102—Personal and Community		Ed. 223—Principles of Teaching	3
Health	3	Ed. 281—Observation and Student	
Ed. 162b—Teaching of Reading and		Teaching in High School	4
Language	3	Special methods (secondary)	2-3
Ed. 163j—Teaching of Arithmetic	3	Additional courses required for	
Govt. 6—Current Political and Social		certification in two high school	
Problems	2	teaching fields.	
Ed. 130—Secondary Education	4		
Hist. 101 or 102—History of the			
United States	3		

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed at *Ohio University* at least five hours of observation,

participation, and student teaching, of which at least three hours are in student teaching. The degree of Bachelor of Science in Education will be granted only to candidates who have given, within the five years immediately preceding, satisfactory evidence of a high degree of teaching skill, and a knowledge of modern methods and ability to employ them in the classroom.

Student teaching reservations should be made before the opening of the semester in which the work is to be completed. Reservation blanks are secured from Miss Esther Dunham, in elementary education, and Dr. Carl Roberts, in secondary education.

ELEMENTARY 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. A unit of the University Elementary School is equipped for special work with slow-learning and mentally-handicapped children. Facilities for elementary teaching are also available in the Athens City elementary schools, in The Plains Elementary School at The Plains, a community four miles from Athens, and in the Mechanicsburg School, two miles from Athens. In these elementary schools a supervising critic is in charge of each room which is used for observation and student teaching.

SECONDARY SCHOOLS. Students who are preparing for junior or senior high school teaching ordinarily do their student teaching in the secondary schools of Athens or in The Plains schools. The arrangements with the Athens High School and The Plains High School provide unusual facilities for all phases of high school teaching.

PREREQUISITES FOR ALL TYPES OF STUDENT TEACHING

1. A student must have demonstrated proficiency in English usage, both written and oral. The requirements in written English may be satisfied by attainment of an A or B in English 4, or by passing the Sophomore English Proficiency Test. Special clinical attention is available to students who wish to remedy defects.

2. A student must have demonstrated proficiency in speech and freedom from speech defects. This requirement is met through a special examination. Special clinical attention is available to students who require it.

3. Students are required to meet a reasonable standard in the psychological test for entrance to teacher preparation. Exceptions can be made to this standard only in case of high scholastic record and unusually favorable personality traits.

4. A student must have a scholastic average of at least 2.0 (C) in all hours earned and, in addition, a 2.0 average on all hours earned in education. The specific courses prerequisite to secondary school student teaching include Psych. 5, Ed. 3 (in programs where required), 130, and 228. Normally, Ed. 228 will be taken along with observation and student teaching. These usually require a sequence of at least 2

semesters before student teaching. Admission to student teaching in the elementary field requires completion of at least 5 semesters of the appropriate program (for cadets, 3 semesters). Transfer students or others whose programs are irregular are required to have the substantial equivalent of the professional and academic course requirements in the appropriate program for the degree of Bachelor of Science in Education.

GRADUATE WORK IN EDUCATION

Graduate work at Ohio University is organized under the direction of the Graduate College and its Graduate Council. Students should consult this catalog for full description of admission, credits, requirements and the like. See page 160.

The College of Education offers an extensive array of advanced graduate courses to help school workers raise the level of their competence in their professional work. The types of programs offered cover the following professional fields:

Elementary Education—teaching in elementary schools, supervision, and administration of elementary schools.

History and Philosophy of Education

Research Work in Education

Secondary Education—teaching in secondary schools, supervision, and administration of secondary schools

School Administration and Supervision—the school superintendency, the school principalship, school supervision

Guidance Services in the Schools—the social counselor, the director of guidance, the guidance functions of teachers and administrators

In each of these fields, and to a limited extent in some other fields, the College of Education is prepared to advise students and to help them plan graduate programs most appropriate for their professional goals. Upon consultation with the dean of the Graduate College, the prospective graduate student in Education will be directed to the Graduate Committee of the College of Education. He will be assigned a graduate adviser and will be given every opportunity to develop a rich and rewarding graduate experience.

CENTER FOR EDUCATIONAL SERVICE

The Center for Educational Service is a division of the College of Education and is designed to make available the resources of the College of Education and of the University to educational workers—teachers, administrators, and supervisors. These services are also available to boards of education and to the public in communities served by Ohio University.

The Center's chief functions are: (1) To provide consultant services in such areas as curriculum planning, use of community resources, audio-visual education, guidance programs, school-community relations, and supervisory and administrative problems. Such consultative services may involve one or several staff members and may be a single meeting

or a series of conferences and meetings. (2) To conduct school surveys of educational programs and curricula, school building and site needs, and organization of school districts. (3) To assist in solution of professional problems through off-campus and on-campus workshops. (4) To promote conferences on vital problems confronting public education. (5) to publish those studies and reports which will aid in solving educational problems and to distribute such publications. (6) To encourage cooperative attack by teachers, administrators, boards of education, and the public toward solution of educational needs.

The Center for Educational Service has its headquarters in the Edwin Watts Chubb Library. Here a collection of materials from public school systems and universities from all parts of the United States forms a curriculum and administrative materials laboratory. These materials are available to students and staff members for on-campus courses and to workshop study groups for resource material; selected items may be loaned to teachers and administrators for committee work in their own school systems.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate in the office of the Ohio University Registrar at the time of application for graduation. The teaching certificate is issued by the State Department of Education upon the recommendation of the dean of the College of Education, and qualifies the student to teach the subjects indicated on the certificate.

Completion of requirements for graduation and of the professional courses required for certification does not insure that the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will attempt to evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Any reports of limitations which might tend to impair the individual's usefulness as a teacher in the public schools will be made a part of the student's record. When the student makes application for certification this record will be examined and the question of his fitness for teaching will be given further consideration.

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

A student who plans to teach in the elementary 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 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 ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State 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.

A student who plans to qualify for both the high school and the elementary certificates will register in the College of Education when he has completed the requirements of the University College. This program, offering the broadest preparation for effective educational service, is appropriate for those who look forward to positions of leadership in education.

Students meet the minimum professional requirements for certification to teach in Ohio by completing the following:

Subject	Sem. Hrs.
Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	4
Ed. 228—Principles of Teaching	3
A methods course	2-3
Ed. 280-281—Observation and Student Teaching	7

The information given below is found on the application form issued by the State Department of Education and in the manual, "Laws and Regulations Governing the Certification of Teachers in Ohio," September 1, 1952. Questions concerning certification should be referred to the Dean of the College of Education, Ohio University, Athens, Ohio.

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

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art	24	General Science	18
1. Drawing	5	Including basic courses in physics, chemistry, and biology.	
2. Design, painting, sculpture	9	Health Education	24
3. Appreciation or history	7	1. Principles, organization, administration of school health programs and public health programs, including school and community relationships.	3
4. Methods, including teaching materials, sources, organization, observation	3	2. Health and hygiene, including personal health and living, community health, mental hygiene, social hygiene, foods and nutrition, sanitation, disease control	6
Biological Science	15	3. Methods and materials in teaching health, including evaluation and selection of health material	3
This requirement may be satisfied with 15 semester hours in General Biology or basic courses in Zoology and Botany totaling 15 semester hours.		4. Human anatomy and/or physiology	6
Bookkeeping	9	5. Electives pertinent to the field, such as: safety and first aid, physical inspection, education and atypical children, community problems and the nurse, child growth and development, health aspects of home and community, speech, community recreation, individual or adapted physical education	6
(bookkeeping, accounting, methods)		History	15
Bookkeeping—Social Business	20	Including history of western civilization, American history, and political science.	
1. Bookkeeping and Accounting	9		
2. Business law, economic geography, economics, business organization, excess in above or pertinent electives.	11		
Earth Science	15		
Including appropriate courses in geography and geology.			
English	15		
Including appropriate courses which guarantee competence in oral and written English, and familiarity with representative prose and poetry selected from the writings of leading English and American authors.			

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Home Economics -----	20	ratus, recreational group activities, and others -----	4
1. Foods and nutrition -----	6	3. Activities, skills and methods of teaching athletic sports, including football, basketball, baseball, track, tennis, golf, swimming, soccer, speedball, volleyball, and others commonly used in secondary and college programs -----	4
2. Textiles and clothing -----	6	4. Methods and materials in teaching health, including evaluation and selection of health material -----	3
3. Home management, child development, housing, household equipment, home furnishing, family relationships, consumer education, home hygiene or home nursing -----	6	5. Health and hygiene, including personal health and living, community health, mental hygiene, social hygiene, foods and nutrition, sanitation, disease control, health counseling, athletic injuries and first aid --	4
4. Methods -----	2	6. Human anatomy and physiology --	6
Industrial Arts -----	24	Physical Science -----	15
Distributed over the following:		Including basic courses in physics and chemistry.	
1. Graphic arts — drawing, planning, printing, photography, duplicating		Salesmanship—Merchandising -----	20
2. Woods—furniture construction, carpentry, wood finishing		1. Marketing principles -----	3
3. Metals—sheet metal, art metal, foundry, machine metal work		2. Salesmanship -----	3
4. Applied electricity — communication, transportation, power		3. Advertising, merchandising, retailing, economic geography, excess in above, or pertinent electives -----	14
5. Ceramics—clay and concrete		Science (Comprehensive Major) -----	40
6. Methods and organization		An integrated base course and pertinent electives totaling 40 semester hours, or a total of 40 semester hours distributed over the following: physics, chemistry, zoology, botany, geology, astronomy.	
Languages (prerequisite—2 h.s. units)—15 semester hours in the language in which certification is desired)		Social Studies (Comprehensive Major)-----	40
Library Science -----	16	An integrated base course and pertinent electives totaling 40 semester hours, or a total of 40 semester hours distributed over the following: American history, history of western civilization, economics, sociology, political science, principles of geography.	
Distributed over the following:		Speech -----	15
1. Bibliographic		Distributed over the following:	
2. Materials		1. Speech fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion.	
3. Technical		Stenography—Typing -----	20
4. Management and functions		1. Shorthand -----	9
Mathematics -----	15	2. Typing -----	3
Including algebra, trigonometry, and geometry.		3. Methods -----	2
Music—Instrumental -----	24	4. Office practice, business English, excess in above, or pertinent electives	6
1. Harmony (written, oral, keyboard), sight singing, ear training -----	10	Typing (typing and methods) -----	5
2. History and appreciation -----	4		
3. Applied music (orchestral instruments) -----	4		
4. Music education, etc.			
5. Membership in band or orchestra			
Music—Vocal -----	24		
1. Harmony (written, oral, keyboard), sight singing, ear training -----	10		
2. History and appreciation -----	4		
3. Applied music (piano or singing, or both) -----	4		
4. Music education, including methods for elementary and high school, observation, participation, conducting	6		
5. Membership in some choral group			
Physical Education -----	24		
1. Principles, organization and administration of physical education, including athletics and recreation -----	3		
2. Activities, skills and methods of teaching rhythms, games of low organization, stunts, tumbling, appa-			

Any of the above subjects appearing on a certificate issued by the State of Ohio is valid for teaching that subject or any subject listed as a required course in that area, in grade 7 to 12 inclusive.

The above list is not all-inclusive; for example, subjects such as economics, sociology, geography, physics, etc., will, upon the recommendation of the institution, be added to a certificate provided the applicant has completed 15 semester hours of appropriate credit.

Minimum requirements for a provisional special certificate in the various special teaching fields:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art -----	60	organization, observation and student teaching -----	10
1. Drawing -----	15	Business Education -----	45
2. Design, painting, sculpture -----	25	Minimum requirements:	
3. Appreciation and history -----	10	Typing -----	3
4. Methods, teaching materials, sources,			

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Shorthand -----	6	Music—Instrumental -----	53
Bookkeeping and accounting -----	6	1. Methods, materials, observation ---	4
Methods -----	2	2. Student teaching (elementary and secondary levels) -----	3
Distribute remainder over the following:		3. Conducting -----	2
1. Stenography—Typing -----	4	4. Instrumental classes -----	4
Shorthand, typing, office practice, business English and correspondence, methods in shorthand and typing -----	4	5. Theory (ear training, sight singing, dictation, harmony, etc.) -----	16
2. Bookkeeping—Social Business -----	4	6. Applied music -----	16
Business law, accounting, economic geography, economics, business organization -----	4	7. History, appreciation, literature ---	4
3. Salesmanship—Merchandising -----	4	8. Ensemble -----	4
Marketing principles, salesmanship, advertising, retailing, merchandising -----	4	Music—Vocal -----	53
Home Economics -----	35	1. Methods, materials, observation ---	6
1. Foods and Nutrition -----	8-15	2. Student teaching (elementary and secondary levels) -----	3
(including normal nutrition, meal planning, selection, preparation, and serving) -----	8-15	3. Conducting -----	2
2. Clothing -----	8-15	4. Class voice -----	2
(includes selection, construction, textiles, art principles) -----	8-15	5. Theory (ear training, sight singing, dictation, harmony, etc.) -----	16
3. General -----	12-19	6. Applied music -----	16
(including child development, family relationships or euthenics, housing, home furnishings, equipment, home management, home hygiene or home nursing, and consumer education) -----	12-19	7. History, appreciation, literature ---	4
Industrial Arts -----	45	8. Ensemble -----	4
Distributed over the following:		Physical Education -----	46
1. Graphic arts — drawing, planning, printing, photography, duplicating -----	4	1. Principles, organization, and administration of physical education, including athletics and recreation; and principles, organization, and administration of school health education, including school and community relationships -----	6
2. Woods—furniture construction, carpentry, wood finishing -----	4	2. Activities, skills and methods of teaching rhythms, games of low organization, stunts, tumbling, apparatus, recreational group activities, and elementary school activities -----	10
3. Metals—sheet metal, art metal, foundry, machine metal work -----	4	3. Activities, skills and methods of teaching athletic sports, including football, basketball, baseball, track, tennis, golf, swimming, soccer, speedball, volleyball, and others commonly used in secondary and college programs -----	6
4. Applied electricity — communication, transportation, and power -----	4	4. Methods and materials in teaching health, including evaluation and selection of health material -----	3
5. Ceramics—clay and concrete -----	4	5. Health and hygiene, including personal health and living, community health, mental hygiene, social hygiene, foods and nutrition, sanitation, disease control, health counseling, athletic injuries and first aid ---	8
6. Methods and organization. -----	4	6. Human anatomy and physiology ---	6
Library Science -----		7. Individual or adapted physical education, including corrective, restricted and therapeutic activities, their teaching and administration -----	2
1. Professional Preparation -----	15	Speech -----	40
a. Educational psychology -----	3	1. 34 semester hours well distributed over the following: 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), and special methods in teaching speech.	
b. Principles of education -----	3	2. Remaining 6 semester hours to be selected from the fields designated in (1) above or from other collegiate speech courses.	
c. School administration, organization or management, or library organization and management ---	3		
d. Methods of teaching or materials and methods of library science ---	3		
e. Student teaching or supervised field work -----	3		
2. Special Preparation -----	30		
(Well distributed over the following areas):			
a. Bibliographic. (This shall include reference bibliography and book selection. At least one course shall deal specifically with books for young people.) -----	3		
b. Technical. (This shall include cataloging and classification.) -----	3		
c. Administrative. (Administration of school libraries must be included.) -----	3		
d. Field Work. (Preferably done in school library.) -----	3		

Minimum requirements for a provisional vocational certificate:

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

THE COLLEGE OF FINE ARTS

EARL C. SEIGFRED

DEAN

THE SCHOOL OF DRAMATIC ART AND SPEECH

CLAUDE E. KANTNER, DIRECTOR

Dramatic Art

Radio

Speech

Speech Correction

THE SCHOOL OF MUSIC

KARL AHRENDT, DIRECTOR

Applied Music

Music Education

Music History and Literature

Music Therapy

Theory and Composition

THE SCHOOL OF PAINTING AND ALLIED ARTS

L. C. MITCHELL, DIRECTOR

Architecture

Art Education

Art History

Design

Painting and Drawing

Photography

Sculpture and Ceramics

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts, offering a broad, cultural education in the fine arts and special training in the following departments: Dramatic Production, Radio, Speech, Speech Correction, Applied Music, Music History and Literature, Music Theory and Composition, Music Education, Music Therapy, Architecture, Design, Painting and Drawing, Photography, Art History and Appreciation, Sculpture and Ceramics, and Art Education.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts degree fulfills three functions: to provide the student with specialized training in one of the fine arts; to provide a cultural background through a study of the relationship of all of the arts; to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made for educational and vocational counseling.

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 2.0 in all hours earned, and in addition a 2.0 average on all hours earned in the field of specialization. These requirements include the program of the University College.

Students working toward the Bachelor of Fine Arts degree must complete a major in one of the schools of the College of Fine Arts and a minor of 18 hours in general courses in the fine arts, including F. A. 17-18—Introduction to the Fine Arts. In addition to this course, five others are offered from which the student must select two to complete the minor: History of Painting and Sculpture, History of Music, History of Architecture, History of the Visual Theatre, History of Oratory. One of the courses selected must be in an area outside of the School in which the student is pursuing his major. Descriptions of the general courses may be found under "Fine Arts."

As an alternate to the eighteen-hour minor in history and appreciation, it is possible in certain areas to fulfill the minor requirement by completing F. A. 17-18 and twelve semester hours of applied work in one of the schools of the College of Fine Arts other than that in which a major is being pursued. Before undertaking an alternate minor it is necessary to obtain written permission from the dean of the college.

Those who are planning to teach in Ohio should fulfill the minimum requirements for certification by completing the following:

	Hours		Hours
Psych. 5—Educational Psychology -----	3	A methods course -----	2-3
Ed. 130—Secondary Education -----	4	Observation and student teaching -----	7
Ed. 223—Principles of Teaching -----	3		

MAJORS IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech provides a comprehensive major for those who wish a general background and also permits more specialized majors in theatre, public address, radio, and

speech correction for those who wish to concentrate their work in one of these areas. The requirements for these specialized majors are, however, based upon the principle that all majors in any phase of dramatic art and speech should have a general background of certain basic courses. The program is flexible and is intended to meet the needs and abilities of the individual students.

The University College program should include Speech 1, Speech 2, and F. A. 17-18—Introduction to the Fine Arts. Other courses open to students in the University College are: Speech 3, 25, 34, Radio 79, Radio 80, and Dramatic Art 10.

Majors in theatre must elect 12 hours of English beyond the University College requirement, including either Eng. 223, 224, 323 or 324—Shakespeare, and at least three additional hours in dramatic literature. Comprehensive majors and majors in radio, speech correction, or public address must elect six hours of English beyond the University College requirement. Students who plan to teach speech and English in the public schools should consult with their advisers concerning additional requirements in English and education.

SPEECH AND HEARING CLINIC. The School of Dramatic Art and Speech maintains a speech and hearing 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. A special speech clinic for children serves the Athens area and provides excellent training opportunities for students in speech correction.

Practical experience in radio is provided in the university radio station, WOUI—AM and FM, and in drama through the productions of the University Theatre, the Playshop, and the Ohio Valley Summer Theatre. Students interested in public address may participate in first-year debate, varsity debate, and intercollegiate contests in oratory and interpretation. For a more complete description of these activities, see page 44. The School of Dramatic Art and Speech also sponsors the following professional societies: Tau Kappa Alpha (forensics), Chi Rho Beta (radio), and Footlighters and National Collegiate Players (theatre).

BASIC COURSES REQUIRED FOR ALL MAJORS

	Hours		
Speech 2—Voice and Articulation	2	Speech 195—Principles of Speech	
Speech 3—Public Speaking	2	Correction	3
Speech 25—Principles of Argumentation	2	Radio 80—Radio Speech	2
Speech 34—Oral Interpretation of Literature	3	Dram. A. 10—Introduction to Theatre	2

COMPREHENSIVE MAJOR IN DRAMATIC ART, RADIO, SPEECH AND SPEECH CORRECTION

In addition to the basic courses listed above, the following must be completed:

	Hours		
Dram. A. 47 or 147—Theatre Laboratory	1-2	Speech 305—Problem Solving Through Group Discussion (3)	2-3
Dram. A. 99—Movement and Pantomime	2	Radio 125—Radio Play Production (3) or Speech 302—Advanced Oral Interpretation (3) or	
Dram. A. 105—Play Production	3	Speech 309—Rhetorical Theory (3)	3
Dram. A. 299—Principles of Acting	3	Speech 307—Clinical Methods (3) or	
Speech 112—Advanced Public Speaking	2	Speech 312—Phonetics (3)	3
Speech 147—Workshop in Public Address (2) or		Minimum total in major	36

MAJOR IN PUBLIC ADDRESS*

In addition to the basic courses listed above, the following must be completed:

	Hours		Hours
Speech 110—Parliamentary Procedure	1	Speech 309—Rhetorical Theory	3
Speech 112—Advanced Public Speaking	2	Speech 325—Direction of Forensic Programs	3
Speech 147—Workshop in Public Address	2	Dram. A. 105—Play Production	3
Speech 302—Advanced Oral Interpretation	3	Minimum total in major	36
Speech 305—Problem Solving Through Group Discussion	3		

MAJOR IN RADIO

In addition to the basic courses listed above, the following must be completed:

	Hours		Hours
Radio 79—Introduction to Radio-TV	2	Radio 247—Radio Workshop	2
Radio 105—Radio Broadcasting Mechanics	2	Speech 312—Phonetics	3
Radio 125-126—Radio Play Production	6	Electives in radio or television**	3
Radio 316—Writing for Radio	2	Minimum total in major	36

MAJOR IN SPEECH CORRECTION

In addition to the basic courses listed above, the following must be completed:

	Hours		Hours
Speech 307—Clinical Methods	3	Speech 320—Advanced Clinical Methods	3
Speech 310—Speech Pathology	3	Speech 323—Lip Reading	3
Speech 312—Phonetics	3	Minimum total in major	34
Speech 319—Audiometry and Speech and Hearing Problems	3		

Students who anticipate obtaining positions in speech and hearing therapy in the public schools of Ohio must also include in their elective subjects the following courses in psychology and education. This program meets the requirements in the State of Ohio for the special certificate in this field. A student who wishes to prepare for a public school position in speech correction in any state other than Ohio should obtain the requirements of the state in question and, with his adviser, plan his program accordingly. All students who major in speech correction, whether looking forward to certification or not, must elect a minimum of 20 hours in psychology and education including Ed. 262s, 286, 103 or Psych. 3, Psych. 303, 304, and 310 or 337.

PSYCHOLOGY (Minimum of 22 semester hours required)

	Hours		Hours
Psych. 1—General Psychology	3	Psych. 304—Psychology of Exceptional Children	2
Psych. 3—Child Psychology	3	Psych. 310—Mental Hygiene	3
Psych. 5—Educational Psychology	3	Electives from Psych. 113, 316 and 337	5
Psych. 303—Mental Measurements	3		

EDUCATION (Minimum of 14 semester hours required)

	Hours		Hours
Ed. 262s—Speech and Hearing Therapy in the Public Schools	2	Ed. 130—Secondary Education	4
Ed. 286—Student Teaching in Speech Correction	3	Electives from Ed. 103, 212 or 360	2-3
Ed. 211—The Child and The Curriculum	3		

*Majors in public address must also elect F.A. 203-204—History of Oratory, as one of the minor subjects.

**Students who do not have a reasonable proficiency in typewriting must elect, in addition, Sec. St. 15—Typewriting. Students are also advised to take additional elective courses in such areas as theatre, foreign languages, sports, philosophy, history, psychology, commerce, music.

MAJOR IN THEATRE

In addition to the basic courses listed above, the following must also be completed:*

	Hours		Hours
Dram. A. 21—Elements of Stage		Dram. A. 123—Elements of Stage	
Scenery -----	3	Lighting -----	3
Dram. A. 48—Make-Up -----	1	Dram. A. 299—Principles of Acting ----	3
Dram. A. 99-100—Movement and		Dram. A. 350—Play Direction -----	3
Pantomime -----	4	Minimum total in major -----	37
Dram. A. 107—Costuming -----	4		

MAJORS IN THE SCHOOL OF MUSIC. Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the standards set up by the association.

The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory and composition, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the chorus, symphony orchestra, symphonic band, chamber music, and glee clubs.

Six hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor consists of 18 hours of general courses in the fine arts.

Students who desire to specialize in the field of music education are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with state requirements, the major may be either vocal or instrumental.

Students in the College of Arts and Sciences may major in two areas—music history and literature or music theory. The director of the School of Music should be consulted as the adviser of the course.

Examinations in applied music are given at the end of each semester by a faculty committee in the applied music field concerned. The examinations must be taken by all music majors in those applied music courses which are required for the degree. It should be understood that completion of credit hours in applied music should be in agreement with the proficiency requirements as set up by the School of Music. These requirements may be secured at the office of the School of Music.

Majors are required to attend all recitals and to participate in orchestra, chorus, or band, depending upon their applied major.

The following curricula have been set up for music majors in the College of Fine Arts.

*Theatre majors must also elect F. A. 179-180—History of the Visual Theatre, as one of their minor subjects.

MAJOR IN PIANO
(Four-Year Curriculum)

Twenty-six semester hours in applied music including 18 hours in piano, and 8 hours in ensemble (chorus, orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 340, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours of English, Speech 1, 4 hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-five to twenty-seven semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Piano	2	Freshman Piano	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
	16		17

Sophomore Program*

Sophomore Piano	2	Sophomore Piano	2
Mus. 163—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
Electives	3	Electives	3
	17		17

Junior Program

Junior Piano	2	Junior Piano	2
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Ensemble	1	Ensemble	1
Electives	7	Electives	7
	15		15

Senior Program

Senior Piano	3	Senior Piano	3
Mus. 340—The Literature of Piano Music	2	Advanced music theory elective	2
Advanced music theory elective	2	Ensemble	1
Ensemble	1	Electives	8
Electives	7		14
	15		

MAJOR IN VOICE
(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in voice, 4 hours of piano, and 8 hours in ensemble (chorus).

*Physical education should be added as required.

Twenty-two semester hours in the theory and literature of music including Mus. 3-4, 103-104, 105-106, 201-202, and 337 or 339.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Thirty-nine to forty-three hours of general requirements, including 12 hours in English, Speech 1, 4 hours in physical education, and other subjects to fulfill the University College requirements.

Seven to nine semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester		Hours	Second Semester		Hours
Freshman Voice	-----	2	Freshman Voice	-----	2
Mus. 3—Theory	-----	3	Mus. 4—Theory	-----	3
F. A. 17—Introduction to the Fine Arts	3		F. A. 18—Introduction to the Fine Arts	3	
Ensemble	-----	1	Ensemble	-----	1
University College requirements	-----	7	University College requirements	-----	8
		16			17

Sophomore Program*

Sophomore Voice	-----	2	Sophomore Voice	-----	2
Secondary Piano	-----	1	Secondary Piano	-----	1
Mus. 103—Dictation and Sight Singing	2		Mus. 104—Dictation and Sight Singing	2	
Mus. 105—Harmony	-----	3	Mus. 106—Harmony	-----	3
English elective	-----	3	English elective	-----	3
Fr. 1—Beginning French	-----	4	Fr. 2—Beginning French	-----	4
Ensemble	-----	1	Ensemble	-----	1
		16			16

Junior Program

Junior Voice	-----	2	Junior Voice	-----	2
Secondary Piano	-----	1	Secondary Piano	-----	1
Mus. 201—Analysis and Form	-----	2	Mus. 202—Analysis and Form	-----	2
F. A. 123—History of Music	-----	3	F. A. 124—History of Music	-----	3
Ger. 1—Beginning German	-----	4	Ger. 2—Beginning German	-----	4
Ensemble	-----	1	Ensemble	-----	1
Electives	-----	2	Electives	-----	2
		15			15

Senior Program

Senior Voice	-----	3	Senior Voice	-----	3
It. 1—Beginning Italian	-----	4	Mus. 337—The Literature of Vocal Music or		
Fine arts minor	-----	3	Mus. 339—The Evolution of the Opera	2	
Ensemble	-----	1	Fine arts minor	-----	3
Electives	-----	4	Ensemble	-----	1
		15	Electives	-----	5
					14

MAJOR IN ORCHESTRAL INSTRUMENTS: STRINGS, WOODWINDS BRASS, OR PERCUSSION

(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in major instrument, 4 hours in piano, and 8 hours of ensemble (orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 301-302, 348, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

*Physical education should be added as required.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, 4 hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-one to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester		Hours	Second Semester		Hours
Major Instrument	-----	2	Major Instrument	-----	2
Mus. 3—Theory	-----	3	Mus. 4—Theory	-----	3
F. A. 17—Introduction to the Fine Arts	3		F. A. 18—Introduction to the Fine Arts	3	
Ensemble	-----	1	Ensemble	-----	1
University College requirements	-----	7	University College requirements	-----	8
		16			17

Sophomore Program*

Major Instrument	-----	2	Major Instrument	-----	2
Secondary Piano	-----	1	Secondary Piano	-----	1
Mus. 103—Dictation and Sight Singing	2		Mus. 104—Dictation and Sight Singing	2	
Mus. 105—Harmony	-----	3	Mus. 106—Harmony	-----	3
English elective	-----	3	English elective	-----	3
Fine arts minor	-----	3	Fine arts minor	-----	3
Ensemble	-----	1	Ensemble	-----	1
		15			15

Junior Program

Major Instrument	-----	2	Major Instrument	-----	2
Secondary Piano	-----	1	Secondary Piano	-----	1
Mus. 201—Analysis and Form	-----	2	Mus. 202—Analysis and Form	-----	2
F. A. 123—History of Music	-----	3	F. A. 124—History of Music	-----	3
Ensemble	-----	1	Ensemble	-----	1
Electives	-----	7	Electives	-----	6
		16			15

Senior Program

Major Instrument	-----	3	Major Instrument	-----	3
Advanced music theory elective	-----	2	Advanced music theory elective	-----	2
Ensemble	-----	1	Mus. 338—The Literature of	-----	2
Electives	-----	9	Orchestral Music	-----	2
		15	Ensemble	-----	1
			Electives	-----	7
					15

MAJOR IN MUSIC EDUCATION

(Four-Year Curriculum)

Sixteen semester hours in applied music, including completion of voice and piano requirements for vocal majors and required proficiency for the major instrument for instrumental majors. Instrumental majors must also complete at least three hours in a minor instrument (if major instrument is wind, 3 hours must be in string, and vice versa). Instrumental majors must further complete piano proficiency and two hours of voice.

Twenty semester hours of theory, including Mus. 3-4, 103-104, 105-106, 201 and 233.

Eighteen semester hours, to constitute the minor, in courses in the fine arts, including F. A. 17-18 and F. A. 123-124.

*Physical education should be added as required.

Eighteen semester hours of music education to include Mus. 160, 261, 263-264, 265, 266f, 266j and 273.

Twenty-three semester hours of general requirements, including 12 hours in English, Speech 1, 4 hours in physical education, and 6 hours in social sciences and other courses to fulfill the University College requirements.

Twenty hours in education for completion of certification requirements to include Psych. 1 and 5, Ed. 130, 228, 280, 283, and 284.

Eight semester hours for ensemble participation (band, chorus, glee clubs, or orchestra).

Total requirements: 124-135 semester hours. (Total hours will vary with the teaching minor.)

Freshman Program

The University College Program should include:

Eng. 3—English Composition	3	Eng. 4—English Composition	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Mus. 3—Theory	3	Mus. 4—Theory	3
Psych. 1—General Psychology	3	Speech 1—Fundamentals of Speech	1
P. E.—Physical education	1	P. E.—Physical education	1
Applied	2	Applied	2
Participation	1	Participation	1
	16	Social science	3
			17

Sophomore Program

Mus. 103—Dictation and Sight Singing ..	2	Mus. 104—Dictation and Sight Singing ..	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
Eng. 102—Sophomore English Literature	3	Ed. 130—Secondary Education	4
P. E.—Physical education	1	P. E.—Physical education	1
Psych. 5—Educational Psychology	3	Mus. 160—Introduction to Music	
Applied	2	Education	2
Participation	1	Applied	2
Teaching minor	3	Participation	1
	18	Teaching minor	3
			18

Junior Program

Mus. 261—String Techniques and		Mus. 264—Wind and Percussion	
Materials	2	Techniques and Materials	2
Mus. 263—Wind and Percussion		Mus. 265—Vocal Techniques and	
Techniques and Materials	2	Materials	2
Mus. 273—Conducting	2	Ed. 230—Observation and Partici-	
Teaching minor	3	pation in High School	3
F. A. 123—History of Music	3	Ed. 228—Principles of Teaching	3
Eng. 111 or 112—Chief American		F. A. 124—History of Music	3
Writers	3	Applied	2
Applied	2	Participation	1
Participation	1		
	18		16

Senior Program

Ed. 233—Student Teaching in		Ed. 284—Student Teaching	2
Special Subjects	2	Mus. 266j—Music in Junior and	
Mus. 233—Instrumentation	3	Senior High Schools	3
Mus. 201—Analysis and Form	2	Applied	2
Mus. 266f—Supervision of Music		Participation	1
in Elementary Schools	3	Fine Arts minor	3
Applied	2	Teaching minor	3
Participation	1		
Fine Arts minor	3		14
	16		

Majors are urged to have one teaching minor (see page 139).

MAJOR IN MUSIC THEORY OR COMPOSITION
(Four-Year Curriculum)

Eight semester hours in applied music, including required proficiency in the principal instrument, Mus. 261, 263, and 8 hours in ensemble (chorus, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Forty to forty-four semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 313-314, 315-316, 317-318, 319-320, 357-358, and 371-372 (Mus. 371-372 is required only of majors in composition.)

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F. A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, 4 hours in physical education, and other subjects to fulfill the University College requirements.

Seventeen to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

Principal instrument -----	1	Principal instrument -----	1
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
-----	15	-----	16

Sophomore Program*

Principal instrument -----	1	Principal instrument -----	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
Mus. 261—String Techniques and Materials -----	2	English elective -----	3
English elective -----	3	Fine arts minor -----	3
Fine arts minor -----	3	Ensemble -----	1
Ensemble -----	1	Electives -----	2
-----	15	-----	15

Junior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 263—Wind and Percussion Techniques and Materials -----	2	Mus. 202—Analysis and Form -----	2
Mus. 201—Analysis and Form -----	2	Mus. 316—Advanced Harmony -----	2
Mus. 315—Advanced Harmony -----	2	Mus. 318—Counterpoint -----	2
Mus. 317—Counterpoint -----	2	Mus. 320—Composition -----	2
Mus. 319—Composition -----	2	F. A. 124—History of Music -----	3
F. A. 123—History of Music -----	3	Ensemble -----	1
Ensemble -----	1	Electives -----	3
Electives -----	1	-----	16
-----	16		

Senior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 313—Orchestration -----	2	Mus. 314—Orchestration -----	2
Mus. 357—Counterpoint -----	2	Mus. 358—Counterpoint -----	2
Mus. 371—Composition** -----	2	Mus. 372—Composition** -----	2
Ensemble -----	1	Ensemble -----	1
Electives -----	8-10	Electives -----	7-9
-----	16-18	-----	15-17

*Physical education should be added as required.

**Required of majors in composition only.

MAJOR IN MUSIC LITERATURE
(Four-Year Curriculum)

Eight semester hours in applied music, including required proficiency in principal instrument, and 8 hours ensemble (chorus, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and 6 hours chosen from Mus. 337, 338, 339, and 340.

Eighteen semester hours to constitute the minor in general courses in the fine arts, including F. A. 17-18 and 123-124.

Forty-three to forty-seven hours of general requirements, including 12 hours in English, Speech 1, 4 hours in physical education, and other subjects to fulfill the University College requirements.

Thirteen to fifteen hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

Principal instrument -----	1	Principal instrument -----	1
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
-----	15	-----	16

Sophomore Program*

Principal instrument -----	1	Principal instrument -----	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fine arts minor -----	3	Fine arts minor -----	3
Hist. 1—Western Civilization		Hist. 2—Western Civilization	
in Modern Times -----	3	in Modern Times -----	3
Ensemble -----	1	Ensemble -----	1
-----	16	-----	16

Junior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Fr. 1—Beginning French -----	4	Fr. 2—Beginning French -----	4
Ensemble -----	1	Ensemble -----	1
Electives -----	5	Electives -----	5
-----	16	-----	16

Senior Program

Principal instrument -----	1	Principal instrument -----	1
Music literature elective -----	4	Music literature elective -----	2
Ger. 1—Beginning German -----	4	Ger. 2—Beginning German -----	4
Ensemble -----	1	Ensemble -----	1
Electives -----	5	Electives -----	6
-----	15	-----	14

MAJORS IN THE SCHOOL OF PAINTING AND ALLIED ARTS. The School of Painting and Allied Arts provides curricula for those interested in combining general education with a specialized training for future practice in: architecture, art education, art history, ceramics, commer-

*Physical education should be added as required.

cial design, costume design, interior design, painting, sculpture, and photography.

Students working toward the Bachelor of Fine Arts degree with a major in the School of Painting and Allied Arts must complete at least 32 semester hours of work in the School, including Design 1 or 11 and Paint. 45. To fulfill the requirements for the degree, they must also complete a minor of 18 semester hours of general courses in the fine arts.

For students who have permission to present 12 hours of practical work under terms of the alternate minor, attention is directed toward courses in stagecraft as an area of application of basic principles.

Six hours of English beyond the University College requirement are to be completed by candidates for the degree of Bachelor of Fine Arts with a major in painting and allied arts. Elective courses should be chosen to fit the individual needs of the student.

On the completion of the freshman year, each student with the help of an adviser should prepare a complete tentative schedule for his degree course. As subsequent experiences direct this schedule may be altered and should, in frequent consultations with an adviser, be kept up to date.

COMPREHENSIVE MAJOR IN ART

Students who desire a general appreciation of the entire art field with some degree of skill in several of the arts should plan to complete as wide a variety of courses in the area as possible. They should include experience in all media and should not neglect to build a background in art history.

A comprehensive major will require work well beyond the minimum of thirty-two hours. The program should be planned with the aid of a faculty adviser from the art staff.

MAJOR IN ARCHITECTURE

Candidates for the Bachelor of Fine Arts degree may elect architecture as a major within the School of Painting and Allied Arts. A curriculum has been designed to provide an over-all knowledge of the subject supported by a study of the liberal arts and related fine arts. Students upon completing the architectural curriculum, should be prepared for positions as architectural draftsmen and assistants in architects' offices, where they may gain practical experience usually required by state boards. Certain students with outstanding skill should plan, upon receiving the B.F.A. degree, to pursue graduate study at one of the accredited schools of architecture.

For the student who chooses, upon graduation, to enter fields closely allied to architecture and building, opportunities exist in the design, manufacture, distribution, and installation of the materials of architecture. A developed, imaginative power and a structural sense are desirable attributes for work in industrial design and in the design and construction of display features and structures.

The architectural courses not only are available for those working toward a professional goal but are of general educational value to potential homeowners, to business and professional members of a community, in fact, to any persons who are interested in buildings for personal, commercial, educational, and recreational purposes.

A program follows for the student wishing to major in architecture in preparation for a professional career.

Freshman Program*

The University College Program should include:

Design 11—Basic Design -----	2	Paint. 45—Basic Representation -----	2
Arch. 55—Fundamentals of Architecture	3	Arch. 56—Fundamentals of Architecture	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Math. 5—Freshman Mathematics -----	5	Math. 6—Freshman Mathematics -----	5
University College requirements -----	3	University College requirements -----	3
	<hr/>		<hr/>
	16		16

Sophomore Program*

Phys. 5—Introduction to Physics -----	4	Phys. 6—Introduction to Physics -----	4
Arch. 155—Architectural Design -----	5	Arch. 156—Architectural Design -----	5
Arch. 179—Architectural Materials -----	3	Arch. 183—Architectural Equipment -----	3
Fine arts minor -----	3	Fine arts minor -----	3
Electives -----	3	Electives -----	3
	<hr/>		<hr/>
	16		16

Junior Program

F. A. 175—History of Architecture -----	3	F. A. 176—History of Architecture -----	3
Arch. 281—Architectural Construction --	2	Arch. 282—Architectural Construction --	2
Arch. 257—Fundamentals of Residential Architecture -----	2	Arch. 258—Fundamentals of Residential Architecture (optional)	3
Electives -----	9	Electives -----	8
	<hr/>		<hr/>
	17		16

Senior Program

Arch. 284—Working Drawings -----	2	Arch. 301—Workshop in Architecture (optional) -----	3
Arch. 285—Architectural Problems -----	5	Arch. 286—Architectural Problems -----	5
Fine arts minor -----	3	Fine arts minor -----	3
Electives -----	8	Electives -----	7
	<hr/>		<hr/>
	18		18

MAJOR IN ART EDUCATION

The program below is designed for those who wish certification as teachers in the public schools while completing requirements for the Bachelor of Fine Arts degree. All required courses are specified and should be taken as listed. Substitutions may be made only after consultation with an adviser.

Electives, after the freshman year, should be used to build up a teaching minor, to gain proficiency in additional art activities, and to provide background for future graduate study. Attention is called to the major options in design listed on page 156 which may be found useful as models to be followed. A sequence of courses in photography or in architecture may be used in the same manner. For teaching minors, see page 139.

Groups of courses which satisfy requirements for the alternate minor as stated on page 144 may be used as a minor teaching group.

*Physical education should be added as required.

Freshman Program

The University College Program should include:

Design 11—Basic Design	2	Design 12—Basic Design	2
Paint. 28—Figure Drawing	2	Paint. 28—Figure Drawing	2
Paint. 45—Basic Representation	2	Paint. 46—Basic Representation	2
F. A. 17—Introduction to the Fine Arts 3		F. A. 18—Introduction to the Fine Arts 3	
Psych. 1—General Psychology	3	Eng. 4—English Composition	3
Eng. 3—English Composition	3	Elective	3
	<u>15</u>		<u>15</u>

Sophomore Program

Psych. 5—Educational Psychology	3	Ed. 130—Secondary Education	4
Paint. 71—Sketching	2	F. A. 122—History of Painting	
Paint. 75—Representation	3	and Sculpture	3
F. A. 121—History of Painting		Eng. 102—Sophomore English Literature 3	
and Sculpture	3	Design 123—Jewelry	2
Eng. 101—Sophomore English Literature 3		Design 137—Costume Design	2
Design 113—Lettering	3	Electives	3
	<u>17</u>		<u>17</u>

Junior Program

Arch. 55—Fundamentals of Architecture 3		Paint. 128—Figure Drawing	2
Sculp. 115—Ceramics	3	Paint. 118—Water Color	3
Paint. 117—Form and Composition	3	Ed. 230—Observation and Partic-	
Design 240—Design Applied to		pation in High School	3
Materials	2	Ed. 228—Principles of Teaching	3
Design 271—Interior Design	3	Design 120—Textile Design	3
Fine arts minor	3	Fine arts minor	3
	<u>17</u>		<u>17</u>

Senior Program

Ed. 233—Student Teaching in Special		Ed. 234—Student Teaching in Special	
Subjects	2	Subjects	2
Ed. 260h—Teaching of Art	3	Ed. 270—Senior Conference in	
Electives	10	Secondary Education	2
	<u>15</u>	Electives	12
			<u>16</u>

MAJOR IN DESIGN

The general field of design leads to many practical applications of principles in production and distribution. Training toward these practical ends is possible under the major options listed below. Practical application in specific courses proceeds during the sophomore and junior years with individual problems in special workshop courses in the senior year. The following freshman program is suggested for the guidance of the student:

First Semester	Hours	Second Semester	Hours
Design 1—Beginning Design (2) or		Design 2—Beginning Design (2) or	
Design 11—Basic Design (2)	2	Design 12—Basic Design (2)	2
Paint. 45—Basic Representation	2	Paint. 46—Basic Representation	2
F. A. 17—Introduction to the Fine Arts 3		F. A. 18—Introduction to the Fine Arts 3	
University College requirements	8	University College requirements	8
	<u>15</u>		<u>15</u>

Advertising Design

In addition to a strong background in general design the ability to draw and to letter expertly are essential. As courses in basic design and representation are prerequisites, they should be scheduled in the freshman year. The sophomore program should include courses as listed below:

Paint. 28—Figure Drawing	2	Paint. 28—Figure Drawing	2
Design 113—Lettering	3	Design 114—Lettering	3
F. A. 121—History of Painting and		F. A. 122—History of Painting and	
Sculpture	3	Sculpture	3
Electives	8	Electives	8

As electives, many courses in commerce, especially those in journalism, advertising and marketing contribute effectively. Psychology courses should be considered.

Ceramic Design

The successful ceramicist is first a good designer. The student should, along with work in actual ceramics and sculpture, plan to carry many other courses in design. Work in jewelry, textiles, industrial design and architecture should be included. Photography will be helpful and figure drawing is of great importance.

Electives from geology, marketing, advertising, mathematics, and engineering form the general background.

Costume Design

Ability to draw the human figure expertly is necessary for efficient work in costume design. Plans should include courses which concentrate on life drawing, water color and painting. Designing clothing also requires a general understanding of practical, as well as basic design, color and texture, textile design and jewelry design. Electives should include courses in home economics which feature clothing construction and pattern drafting, work in costume for the theatre, commerce, journalism.

Industrial Design

From a solid background in design and drawing the student should proceed to such three dimensional arts as ceramics, textile design, sculpture, jewelry where basic principles are applied as course material. Rendering ability and architectural drafting experience are strong factors. Photography will be found useful. Electives from industrial arts in wood, metal and plastics should be included in the student's plan. Contributing courses in engineering, marketing, and economics should be given consideration.

Interior Design

A knowledge of basic design should lead directly to advanced design courses and to textile design, ceramics, lettering and other closely allied subjects. Fundamentals of Architecture should be taken during the sophomore year and be followed in the junior year by actual courses in interior decoration. Specialized work in water color is a necessity. Workshop courses for special problems supplement specialized work in the senior year.

Since decorators must sell their ideas, elective courses in advertising, psychology, commerce, and home economics will add approaches which are indispensable. Information gained in the industrial arts, and in theatre stage craft will be valuable.

MAJOR IN PAINTING AND DRAWING

Commercial illustration requires a background in drawing, painting, and design toward development of individual technique. Painting generally, as a hobby or as a profession, calls for the same type of foundation with attention to specialization in the senior year. In either

case, courses in drawing and color theory should precede actual work in painting. Photography, architecture or interior decoration, sculpture, courses in commercial art and prints contribute effectively. Electives from journalism, commerce and other background fields of interest to the student will be of great future value. The general freshman program should be the same as that carried by a major in Design.

MAJOR IN PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

In addition to a specialized understanding of photographic techniques and practices, a general education in contributing fields is desirable. The successful photographer must appreciate the ideas and interests of those with whom he deals.

A planned course of study should include courses in art history, design and drawing for technical information contributing directly to the major interest. From the general educational field, courses in journalism, commerce, and the sciences should be chosen to fit individual needs.

Prospective photography majors should contact a staff member before registration and follow the program below as closely as possible.

Freshman Program*

The University College Program should include:

Design 1—Beginning Design (2) or	Paint. 45—Basic Representation	2	2
Design 11—Basic Design (2)	Photog. 78—Basic Photography	2	3
Photog. 77—Basic Photography	F. A. 18—Introduction to the Fine Arts	3	3
F. A. 17—Introduction to the Fine Arts	University College requirements	3	7
University College requirements		7	15
		15	

Sophomore Program*

Photog. 133—News Photography	Photog. 144—Photographic Processes	2	3
Photog. 143—Photographic Processes	Photog. 145—Workshop in Photography	3	3
F. A. 121—History of Painting and Sculpture	F. A. 122—History of Painting and Sculpture	3	3
Electives	Electives	8	7
		16	16

Junior Program

Photog. 277—Portraiture	Photog. 278—Portraiture	3	3
Fine arts minor	Fine arts minor	3	3
Electives	Electives	10	10
		16	16

Senior Program

Photog. 379—Commercial and Illustrative Photography	Photog. 380—Commercial and Illustrative Photography	5	5
Photog. 381—Advanced Workshop in Photography	Photog. 381—Advanced Workshop in Photography	3	3
Electives	Electives	7	7
		15	15

*Physical education should be added as required.

THE GRADUATE COLLEGE

DONALD R. CLIPPINGER

DEAN

- | | |
|--|-------------------------------------|
| Agriculture | Home Economics |
| Archaeology and Antiquities
(minor work only) | Human Relations |
| Art | Industrial Arts |
| Botany | Journalism |
| Chemistry | Management |
| Classical Languages | Mathematics |
| Commerce and Business | Music |
| Dramatic Art | Philosophy |
| Economics | Photography |
| Education and School
Administration | Physical Education
and Athletics |
| Engineering, Civil,
Electrical and Mechanical | Physics |
| English | Psychology |
| Geography and Geology
(minor work only) | Radio |
| German | Romance Languages |
| Government | Sociology |
| History | Speech and
Speech Correction |
| | Zoology |

THE GRADUATE COLLEGE

The graduate program at Ohio University provides advanced professional training in the area of a student's field of specialization and affords opportunities for the conduct of research and special investigations in these same areas. The program of graduate study should become an initiation into methods of intensive study and research in some selected area of knowledge. It is the objective of the Graduate College to provide its students with a high degree of professional competence.

The Graduate College confers the degree of Master of Arts, Master of Education, Master of Science, or Master of Fine Arts through the programs of instruction provided by the colleges of Arts and Sciences, Education, Commerce, Applied Science, Fine Arts, and the Division of Physical Education and Athletics.

ADMISSION. In general, students who hold a bachelor's degree from an accredited college or university and who have attained an undergraduate scholastic average of 2.5 or above will be admitted to the Graduate College. Some departments (see departmental requirements) have a higher scholastic requirement. For this reason, final written approval for admission rests with the dean of the Graduate College and the chairman of the graduate committee of the school or department in which the applicant chooses to do the major work.

Graduates from accredited universities with less than the required 2.5 scholastic average may be admitted if they achieve a satisfactory score on the Graduate Record Examination, Miller Analogies Test, or a B level (70 percentile rank) on an acceptable standard college ability test* and receive the recommendation of the chairman of the graduate committee in the area of their major.

Applicants who hold the bachelor's degree from unaccredited institutions must have a 2.5 undergraduate scholastic average and comply with the requirements of the preceding paragraph relative to the Graduate Record Examination or acceptable college ability test.

Correspondence concerning admission to the Graduate College should be directed to the dean of the Graduate College. Application is made on a form provided for the prospective graduate student. This form when returned must be accompanied by an official transcript of the applicant's previous training. A graduate of Ohio University need not comply with the transcript requirement. The application should be filed with the Director of Admissions a month in advance of the term in which the applicant wishes to register.

*Information regarding these examinations may be had at the office of the Director of Admissions or the office of the Supervisor of Testing Service. While it is not required, except as indicated above, applicants for admission may submit their scores on the Graduate Record Examination as valuable evidence of fitness for admission. The Graduate Record Examination, with which Ohio University and other universities have had several years of experience, is a test of general, intellectual equipment. It is now being made widely available to prospective graduate students by Carnegie Foundation for the Advancement of Teaching. Those who have taken this test are urged to have the Graduate Record Office report their scores to the Director of Admissions. Examinations will be given in January, April, June, and November. Further information about the Graduate Record Examination may be obtained by writing to The Graduate Record Examination, Educational Testing Service, P. O. Box 592, Princeton, New Jersey.

Admission to the Graduate College does not imply admission to candidacy for a degree. The student is referred to a subsequent paragraph on the requirements for admission to candidacy.

SPECIAL STUDENTS. Any graduate student who is not a degree candidate will be classified as a special student. This classification may include those who wish to pursue courses with no thought of qualifying for a degree, those failing to qualify for admission to candidacy on completion of their first twelve hours of graduate study, and those who have some deficiency in entrance requirements.

SENIORS AND GRADUATE STUDY. A student who is within nine hours of completing all requirements for the bachelor's degree at Ohio University may take courses applying toward the master's degree, provided he otherwise meets the requirements of admission and secures the written recommendation from the dean of his college, the chairman of his major department, and approval of the dean of the Graduate College. Request for the above privilege must be made in advance of registration through the Graduate College office.

REGISTRATION AND ASSIGNMENT TO ADVISERS. A student who qualifies for admission to the Graduate College receives a permit to register. He then confers with the dean of the Graduate College concerning the general nature of his interests in graduate study and is directed to the departmental chairman or chairman of the graduate committee who has supervision over the subject matter in the area of major interest. The chairman will assign a faculty adviser in the major and minor to counsel with the graduate student and prepare the outline of graduate study. The outline is returned to the Graduate College office where it is filed and becomes a part of the record of the graduate 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 graduate credit with A or B grades may be accepted by transfer from approved institutions which offer the master's degree, provided the transferred course work is acceptable to the student's adviser and is *not more than five years old*. Credit for courses taken by correspondence is not accepted toward the degree. *A maximum of six semester hours taken in extension classes 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 full time may, with the approval of his major adviser and the dean of the Graduate College, carry a maximum of six hours of credit work in a semester or summer session.

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 three-week sessions. Many students find it necessary to take two semesters and a summer ses-

sion for the course work and the thesis. 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 24 weeks. A student who takes courses for graduate credit in extension classes 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 or at least 24 weeks.

TIME LIMIT FOR GRADUATE PROGRAM. 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 may be permitted to continue in graduate study only if exceptional circumstances are associated with the delay in progress. In the event an extension of time is granted, additional course work above the 32 hour minimum may be exacted of the student. Any request for an extension of time must bear the endorsement of the departmental graduate committee and is subject to review and final action by the Graduate Council. An extension of time is automatically granted to those students whose programs have been interrupted by military service.

STANDARDS OF WORK. All work submitted for graduate credit shall be of high quality. *The minimum standard acceptable is a point-hour ratio of 3.0 in all courses attempted in fields chosen to meet degree requirements, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C.* A minimum average grade of B is required in all courses taken at Ohio University for application on the degree requirements. The designation of "pending" on a problem, research, or seminar course must, by arrangement with the instructor, be removed within one year after the official closing of the session in which the course was taken. An incomplete in all other courses must be removed within six weeks after the opening of the next session in which the student is in residence. No grade for thesis is indicated until the completion of the thesis.

COURSES FOR GRADUATE STUDY. Credit toward a graduate degree is given for the completion of courses designed for graduate students (numbered 400-499) and courses designed for advanced undergraduates and graduates (numbered 300-399), provided the courses are included in the student's approved program of study.

PROGRAM OF STUDY AND STUDENT LOAD. A student's program of study is made up of two parts, a major and a minor, unless a program otherwise arranged is approved by the adviser and the graduate committee of the department. Since graduate work implies advanced study and some degree of specialization, a certain amount of undergraduate preparation in a subject or field of study is presupposed before graduate study may be undertaken in that subject or field. Naturally, the undergraduate preparation required to begin a graduate major is greater than that required to begin a graduate minor. In most departments

a minimum of 18 semester hours of undergraduate work is required to begin a graduate major while 6 to 12 semester hours is required for the minor. The student is referred to the requirements listed by departments as given in the Graduate College catalog. The program in the major field varies from 12 to 20 semester hours exclusive of research and thesis (under the thesis plan), with 4 to 6 semester hours allowed for research and the thesis. 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 department, school, or field on recommendation of the adviser and with the approval of the graduate committee of the department.

A graduate student in social science may follow any one of three optional plans of graduate study. Two of these plans are designed particularly for graduate students who have completed an undergraduate comprehensive social science major and who desire to continue this broad preparation at the graduate level. Students pursuing graduate study for personnel work or in the field of human relations are required to have a broad undergraduate preparation in the social sciences. Their graduate outlines will be made to suit individual requirements. Further information regarding these plans may be secured at the office of the Graduate College.

A program of graduate study without the thesis requirement is now available to graduates preparing for educational work in the public schools. Students desiring the Master of Education degree may have a program of study arranged with or without thesis, provided the program is approved by the committee on graduate study in the major department. See section on "Requirements for the Master's Degree."

The full-time load for a graduate student is considered to be 16 credit hours per semester (8 hours in the summer session). A student wishing to register for extra hours must secure approval of his major adviser and the dean of the Graduate College.

Graduate assistants or research fellows normally carry a load of 8 hours, though with the approval of the department chairman and the dean of the Graduate College, additional work not exceeding a total of 12 hours a semester may be carried. The graduate assistant gives 18 hours of service to the department of his major.

ADMISSION TO CANDIDACY. Admission to the Graduate College does not constitute admission to candidacy for a degree. In order to be admitted to candidacy for the master's degree, a student must have demonstrated ability and fitness to pursue graduate work in his chosen field by completing a minimum of 12 semester hours of graduate work with a scholastic average of 3.0 or above within his program of graduate study. A further condition of admission to candidacy is the selection of a thesis subject* acceptable to the major adviser and approved by the

*No thesis is required of the candidate for the M.Ed. degree under Option 2. However, students electing Option 2 must apply for admission to candidacy immediately upon completing a minimum of 12 hours of work. See item 3 under M.Ed. degree.

Graduate Council. The student must apply for admission to candidacy as soon as he has met these preliminary requirements, not later than two weeks (one week in the summer session) following the opening of his next session of residence. A student not eligible for candidacy by reason of a scholastic average below 3.0 in all graduate work completed prior to application for candidacy, or because of failure to select an approved thesis topic, will have his qualifications reviewed and may be denied the opportunity to pursue further work, except as a special student. (See page 161.) Application forms for admission to candidacy are obtainable at the Graduate College office.

REQUIREMENTS FOR THE MASTER'S DEGREE. For the M.A., M.S., or M.F.A. degree, as partial fulfillment of the requirements for the master's degree, each candidate shall prepare a thesis* under the direction of his adviser on a subject approved by the committee on graduate study in the department of his major and the Graduate Council. A student under the thesis plan is expected to pass creditably two examinations, (a) a general examination on the subject matter of his major field, and (b) an oral examination on the thesis.

The *major course examination*, which must be taken approximately one month before the oral examination on the thesis, may be written (two to four hours) or oral (one to two hours) as may be determined by the committee on graduate study in the department concerned. The chairman of the committee on graduate study or the major adviser shall arrange for and supervise this examination. The student makes application for the examination through his major adviser. The arrangements for the examination shall be completed through the Graduate College office. The details of the examination, including time and place, will be sent to the examiners and the student from the Graduate College office. If the examination is written, within one week after the examination, the instructor in charge shall file a copy of the examination questions and the student's examination papers in the office of the Graduate College, together with a report (passed or failed) on the student's examination. If the major course examination is oral, the personnel of the examining committee as arranged for by the chairman of the committee on graduate study or the major adviser shall include a member of the Graduate Council appointed by the Dean of the Graduate College. After the examination the instructor in charge shall file a report (passed or failed) in the office of the Graduate College. A candidate who fails the major course examination, whether written or oral, may retake the examination at the discretion of the committee on graduate study in the department concerned.

An *oral thesis examination* of one to two hours shall be given not later than one week before the degree is to be conferred. The examining committee shall be composed of the director of the thesis as chairman,

*Students in applied music who take the M.F.A. degree may offer a public recital and a recording in lieu of thesis. Arrangements for the recording will be made through the Radio Department.

For the M.A. degree in the Department of English, provision is made for a creative writing option in which the candidate submits poetry, a short story, novel or play in lieu of a thesis.

two or more additional members from the major department, and a representative of the Graduate Council as appointed by the dean of the Graduate College. Immediately after the examination, the chairman of the committee shall file a report of the examination with the Registrar and the office of the Graduate College.

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 activity, for example, in literature, music, fine arts, industrial arts, together with a written essay indicating the purpose, procedure, bibliography, and problems involved in the work. The format which gives directions for writing the thesis and abstract is obtained in the office of the Graduate College.

The thesis shall be presented to the thesis director in form for final typing at least five weeks in advance of the date of the commencement at which the candidate expects to receive his degree. At this time the thesis director will certify approval of the thesis in this form and will constitute the committee and arrange a date for the oral thesis examination through the Graduate College office.

The finished copies of the thesis must be deposited with the Graduate College office one week prior to the date of the oral examination. The Graduate College office will provide for a review of the manuscript by the examining committee prior to the final oral examination.

After the thesis and abstract are approved, and not later than five days before the degree is conferred, the candidate files two unbound copies of the thesis with the university librarian and one bound copy of the thesis with the office of the Graduate College. The two copies filed with the university librarian are bound and retained in the university library, and the copy filed with the Graduate College is presented to the school or department in which the work has been done.

The M.Ed. degree affords optional plans of study (1) a thesis type of program, (2) a program excluding the thesis requirement. The student electing to follow the thesis program leading to the M.Ed. degree will comply with the requirements stipulated in the preceding paragraphs.

The program for the Master of Education degree excluding the thesis is designed especially for teachers, administrators, and others engaged in and preparing for educational work in the public schools. Though the program is available to any student who is preparing to teach in the public schools, it will be of interest to students in education, physical education, industrial arts, home economics, commerce, business education, and journalism. The nonthesis program is available

under the same requirements as the thesis program except for the following provisions:

1. The student must be approved for the program by the committee on graduate study in his major department. This approval is given only if, after a review of the student's educational aims and interests, the program seems to fit his needs.
2. The student must be certified for teaching or administration, or be eligible for certification before the degree is conferred.
3. The student must apply for admission to candidacy at the close of the session in which he completes the first twelve hours of course work for application toward the degree.
4. The student's major or minor program must be in the area of education. If the professional work is taken in the minor, it must consist of not fewer than eight or nine hours. This professional work may be taken in the College of Education, or any other department or division offering professional courses for teachers if this work better suits the student's needs.
5. The student must submit a scholarly paper on an educational or other approved subject either in connection with a regularly scheduled course or as a report on a field project. This paper must be graded as "satisfactory" by the student's instructor or major adviser and by a member of the committee on graduate study in the department. No credit in hours toward the degree is allowed for this paper, as such.
6. The student must pass a general comprehensive written examination of not less than two hours on the broad areas and background of his major field. The major department will advise the student how he should prepare for this examination and will provide the student with a reading list. This examination must be taken as directed by the major department and not later than four weeks before the date when the degree is conferred. In addition, the student must pass the usual examination on major course work as required of candidates for other degrees. The minor course work will be considered in this examination or in connection with the general comprehensive examination referred to above.
7. The student who has already started on the thesis program may shift to the nonthesis program, provided the shift is approved by the committee on graduate study of his major department, and provided all the requirements of the nonthesis program are fulfilled.

COMMENCEMENT EXERCISES. The university graduation exercises are conducted to honor those who have achieved their degrees. The graduate student assumes an obligation to attend the commencement exercises. Academic costumes with the appropriate masters' hoods are worn by the candidates as a part of the ceremony. The candidates will make their own arrangements for procurement of the academic costume and hood through the campus agency provided for this service. Only in instances of proven necessity will degrees be granted in absentia.

Petitions for granting the degree in absentia must be filed with the dean of the Graduate College well in advance of the commencement exercises.

GRADUATE ASSISTANTSHIPS AND RESEARCH FELLOWSHIPS. A number of graduate assistantships, and research fellowships are available in the Graduate College of Ohio University. Persons receiving these appointments 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 graduate assistantship carries a stipend of \$1100 for the academic year of two semesters and waiver of the general registration (resident and non-resident) fee and laboratory fees. The graduate assistant is required to give 18 hours of service weekly to the department of his major or minor field, and is permitted to carry 8 to 12 hours of graduate work, the hours in excess of 8 being subject to the approval of the dean of the Graduate College and the chairman of the department in which the student is doing his major work.

The general registration fee and laboratory fees will also be waived during the summer sessions directly preceding and following the period of a graduate assistant's appointment.

A graduate assistant continuing study for a second year is eligible for a second appointment to the assistantship. The assistant who has completed two semesters of service with an exceptionally good record (10 hours with A grades) may, on the recommendation of his department, be reappointed for a second year at an increased stipend of \$1200 with waiver of the fees as noted above.

Graduate assistantships are usually available to qualified students in the following fields: bacteriology, botany, chemistry, dramatic art and speech, economics, education, English, fine arts, government, home economics (including nursery school), human relations, journalism, management, mathematics, music, philosophy, photography, physical education, physics, psychology, sociology, and zoology.

Research fellowships are established on the basis of grants-in-aid to the University for the conduct of research. Appointees to those fellowships must show exceptional aptitude for research. Their obligation involves the promotion of the research program of the department through which the grant is made. Fellows have no instructional service to perform and may normally carry 8 to 12 semester hours of work toward their graduate program. In general, the stipend and waiver of fees will be the same as that of an assistantship.

Application for a graduate assistantship or a research fellowship must be filed with the dean of the Graduate College by March 1. Application blanks may be obtained from the office of the Graduate College.

Appointments are made about April 1.

SPECIAL APPOINTMENTS IN PERSONNEL WORK. Positions are open annually for graduate assistants who will be appointed to assist the personnel deans. These assistants may pursue graduate work in human relations, psychology, and related fields. Stipend and other terms are

the same as those of other graduate assistants. Applications should be filed not later than March 1.

SCHOLARSHIPS. University scholarships are available to college graduates who have maintained a high scholastic record. These permit full-time study and pay the basic registration (resident or non-resident) fee. Information may be obtained by addressing the Director of Student Financial Aids, Ohio University, Athens, Ohio.

GRADUATE TRAINING TOWARD THE DOCTORATE. An agreement between Ohio University and The Ohio State University permits a limited amount of course work taken beyond the master's degree in approved areas of study to be accepted for transfer to the doctorate program at the latter university.

Any graduate student at Ohio University desiring to participate in the provisions of this agreement must first be recommended by his major department and obtain approval of the Graduate Council of Ohio University. The proposal is then transmitted to the Graduate School at The Ohio State University for consideration. If approval is secured, a program of study is formulated for the student by the chairmen of departments involved at the respective universities.

Advanced standing status toward the doctorate for work beyond the master's degree is also granted by certain other universities.

Students who desire to participate in these provisions should make arrangements early in their master's program.

THE DIVISIONS

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

CARROLL C. WIDDOES, DIRECTOR
W. J. TRAUTWEIN, ASSOCIATE DIRECTOR
CARL T. NESSLEY, ASSISTANT DIRECTOR

THE RESERVE OFFICERS' TRAINING CORPS

JAMES R. PATRICK, COORDINATOR
GEORGE W. DICKERSON, P.M.S. & T.
JOHN K. GRAHAM, P.A.S.T.

THE UNIVERSITY EXTENSION DIVISION

J. FLOYD DIXON, DIRECTOR

THE SUMMER SESSION

FREDERICK H. McKELVEY, DIRECTOR

THE BRANCHES

ALBERT C. GUBITZ, DIRECTOR

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

For nearly a century colleges and universities have to some degree recognized a responsibility for programs of student health practices, required physical education, recreational activities, intramural sports or intercollegiate athletics. Ohio University has kept abreast of this educational movement. It is now developing extensive plans for an expansion of facilities and programs to meet the increasing demands of the future.

One problem which is particularly significant for technically trained and professional people arises out of a developing conflict between the forces of a commercial and industrial civilization and the biological needs of growing, developing, human organisms. Modern man faces the necessity of preserving the achievements of his evolution. Urbanization and mechanical progress have taken away from large segments of our population natural forms of activity which developed organic structure, muscular tonus and coordination. Formerly one's developmental activities, if he were to survive, were inherent in the driving necessities of his daily life. Rapid changes in our culture and patterns of living have necessitated substitutions of sports, hobbies, recreational skills, and methods of adaptation to a more sedentary life with larger portions of leisure time. This was not an acute problem even two generations ago. It is important in these times, and it will become increasingly imperative in the future that educational programs be directed to this problem in our society.

Participation in selected physical activities which are harmonious with one's ability and desires contributes something to general health, endurance, physical skill, mental and emotional poise, and to interesting recreational forms. These activities should be engaged in throughout life in order to develop and maintain an efficient physiology. When students ignore this phase of their education, they should understand that they are closing doors against many interesting and beneficial activities which would contribute to better living. In addition to purely physical development, sports and athletic programs are rich with possibilities for the acquiring of social intelligence, sportsmanship, recreational skills and lasting friendships. These qualities fit into the American way of living.

With this in mind the Division of Physical Education and Athletics is pursuing a broad educational program which is designed to fit the diversified interests of all men and women at the University. The functions of the Division fall into the following categories:

1. *Close coordination with the program of health services directed by physicians and nurses at the University Health Center.*
2. *Required physical education courses for men and women.*
 - (a) The required program for men includes seasonal sports, athletic skills, aquatics, combatives, gymnastics, and physical profi-

ciency tests. A maximum of four semesters of physical education may be required. Near the close of each semester physical proficiency and sports tests are given to determine who are to continue to register for successive semesters. For a detailed description of this plan refer to page 69.

(b) The two-year required program for women is on a basis of choice. The activities fall in four fields: sports and games, swimming, rhythmic, and outing activities.

3. *Adapted Activities.*

Men and women who for any medical reason are unable to participate in the regular program are assigned with medical permission to a class where they will be directed in activities adapted to their special needs.

4. *Intercollegiate Athletics.*

Ohio University is a charter member of the Mid-American Conference which is composed of eight prominent universities in the Midwest area. The other members are Miami, Toledo, Western Reserve, Western Michigan, Kent, Bowling Green and Marshall.

In the administration, financing, organization and management of the intercollegiate athletic program, the Division of Physical Education and Athletics adheres to the amateur code and policies set down by the National Collegiate Athletic Association. All students are encouraged and welcome to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained to play hard and clean athletics. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the direction of a team physician. He has at his disposal the personnel and facilities of a modern university hospital, and is aided by a qualified and experienced trainer.

University teams are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, tennis, swimming, and riflery.

5. *Intramural sports and recreational activities.*

The Division offers an extensive program of intramural sports for men and women. Students are encouraged to make use of all available facilities in their leisure time. This provides a way for all students to participate in sports and recreation. Upon request, clubs will be organized in sports or physical recreation activities as facilities and personnel are available.

6. *Major and minor curricula.*

Major and minor curricula are offered for prospective teachers of health education, physical education, athletic coaching, and recreational leadership. By fulfilling the requirements, students

who wish to major in the Division of Physical Education and Athletics will apply for the degree, Bachelor of Science in Education.

A major in physical education and athletics 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 leader for industrial concerns and municipalities. The University has been successful in assisting well-qualified graduates to find placement.

All students majoring in physical education and athletics are required to purchase a uniform as prescribed by the Division.

The Division encourages major students to assist with the instruction in men's and women's physical activity classes. This experience is advantageous to a prospective teacher.

A minor in physical education and athletics is the minimum program acceptable to the State Department of Education for teaching physical education and coaching athletic teams in the secondary schools of Ohio.

A minor in health education will qualify the student to assume health education responsibilities in the elementary and secondary schools.

A minor in recreation will prepare the student for leadership in school, industrial and community recreation, summer playground programs and outing or camping activities.

The university requirements pertaining to English composition, education, and speech are not indicated in the curricula below. See pages 69 and 76.

The following courses constitute a teaching major in physical education and athletics:

MEN

Freshman Program

First Semester	Hours	Second Semester	Hours
Zool. 3—Principles of Zoology	3	P. E. 66—Program Skills	2
P. E. 65—Program Skills	2		

Sophomore Program

P. E. 102—Personal and Community Health	3	Ed. 103—Studies of Children	3
P. E. 121—Program Skills	2	P. E. 122—Program Skills	2
P. E. 127—First Aid	2	Zool. 134—Anatomy, Kinesiology and Physiology	4
Zool. 133—Anatomy, Kinesiology and Physiology	4	P. E. 150—Recreation	3

Junior Program

P. E. 233—Theory of Adapted Activities	2	P. E. 135—Program Techniques	1
P. E. 267e—Athletic Coaching	1-3	P. E. 267f—Athletic Coaching	1-3
		P. E. 267h—Teaching of Health	3

Senior Program

P. E. 304—History and Principles	3	P. E. 306—Organization and Administration	2
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WOMEN

Freshman Program

First Semester	Hours	Second Semester	Hours
P. E. 1—Hockey, Soccer (1) or P. E. 7—Beginning Modern Dance	1	P. E. 4—Intermediate Swimming (1) or P. E. 8—Intermediate Modern Dance ..	1
Zool. 3—Principles of Zoology	3		

Sophomore Program

P. E. 6—Elementary Tap Dancing	1	P. E. 122—Program Skills	2
P. E. 121—Program Skills	2	Zool. 134—Anatomy, Kinesiology and Physiology	4
P. E. 127—First Aid	2	P. E. 102—Personal and Community Health	3
P. E. 150—Recreation	3		
Zool. 133—Anatomy, Kinesiology and Physiology	4		

Junior Program

P. E. 131—Mass Games	1	P. E. 267b—Coaching Methods	2
P. E. 267a—Coaching Methods	2	Ed. 103—Studies of Children	3
P. E. 18—Intermediate Tennis	1	P. E. 233—Theory of Adapted Activities	2
P. E. 267h—Teaching of Health	3		

Senior Program

P. E. 267n—Teaching of Rhythmic Activities	1	P. E. 267o—Teaching of Rhythmic Activities	1
P. E. 304—History and Principles	3	P. E. 306—Organization and Administration	2

The following courses are suggested to meet the minimum of 24 semester hours required by the State Department of Education for a teaching minor in physical education and athletics:

1. Principles and Organization	5
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MEN AND WOMEN

- P. E. 304—History and Principles of Physical Education and Athletics (3).
- P. E. 306—Organization and Administration of Physical Education and Athletics (2).

2. Theory and Practice	4
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MEN

- P. E. 65—Program Skills (2)
- P. E. 66—Program Skills (2)
- P. E. 121—Program Skills (2)
- P. E. 122—Program Skills (2)

WOMEN

- P. E. 6—Elementary Tap Dancing (1)
- P. E. 7—Beginning Modern Dance (1)
- P. E. 8—Intermediate Modern Dance (1)
- P. E. 15, 16—Folk and National Dancing (2)
- P. E. 113—Hiking (1)
- P. E. 121, 122—Program Skills (2-4)
- P. E. 131—Mass Games (1)

3. Theory and Coaching	4
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MEN

- P. E. 267e—Athletic Coaching (1-3)
- P. E. 181—Intramural Sports (2)
- P. E. 267f—Athletic Coaching (1-3)

WOMEN

- P. E. 267a—Coaching Methods (2)
- P. E. 267b—Coaching Methods (2)

4. Health Education	6
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MEN AND WOMEN

- P. E. 102—Personal and Community Health (3)
- Ed. 267h—Teaching of Health (3)

5. Anatomy, Kinesiology and Physiology	8
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The following courses constitute a state certified minor in health education:

MEN AND WOMEN

	Hours
Speech 1—Fundamentals of Speech	1
P. E. 102—Personal and Community Health	3
Ed. 103—Studies of Children	3
P. E. 127—First Aid	2
Zool. 133-134—Anatomy, Kinesiology and Physiology	8
P. E. 267h—Teaching of Health	3
Psych. 310—Mental Hygiene	3
P. E. 395—School Health Problems	3

The following courses constitute a minor in recreation leadership.

MEN AND WOMEN

Soc. 101—Social Problems	3
Speech 3—Public Speaking	2
Ind. A. 9—Crafts and Hobby work	2
P. E. 15—Folk and National Dancing	1
P. E. (65-66)—(121-122) Program Skills	2
P. E. 127—First Aid	2
P. E. 150—Recreation (Social and party games, low cost crafts, square dance, theories of play, institutional recreation) ..	3
P. E. 349—Community Recreation (organization & administration, finance, facilities, history of, play ground supervision)	3
	18

Elective courses:

P. E. 7—Beginning Modern Dance	1
P. E. 8—Intermediate Modern Dance	1
P. E. (65-66)—(121-122) Program Skills	6
Dram. A. 105—Play Production	3
P. E. 113—Hiking	1
P. E. 114—Camp Craft	1
P. E. 118—Life Saving and Water Safety	1
P. E. 142—Camp Leadership	2
P. E. 153—Nature and Function of Play	2
P. E. 267o—Teaching of Ball Room and Modern Dance	1
P. E. 267n—Teaching of Folk and National Dance	1

Elect from the above to total a minimum of 24 hours.

THE RESERVE OFFICERS' TRAINING CORPS DIVISION

GENERAL. Ohio University maintains a Senior Division, Reserve Officers' Training Corps, consisting of two coequal departments:

THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS

THE DEPARTMENT OF AIR SCIENCE AND TACTICS

In 1935, the Board of Trustees entered into an agreement with the Government for the establishment of a voluntary ROTC unit which, during subsequent years, has been developed and expanded into the two coequal departments indicated above. A coordinator appointed by the President of the University, coordinates affairs of the ROTC and acts as liaison officer between these departments and the University administration.

Each department chairman is the senior officer on duty in that department and is referred to either as the Professor of Military Science and Tactics (P.M.S. & T.) or the Professor of Air Sciences and Tactics (P.A.S.T.). Other officers are assigned as Assistant Professors and enlisted men are assigned as Instructors. All classes in the ROTC are conducted by the assigned officers and enlisted men.

Each department offers a two-year basic course and a two-year advanced course. Enrollment in either course is elective and may be pursued as a course for elective credits required for a degree. However, once either course is elected by a student, it becomes a prerequisite for graduation, unless he is relieved from this obligation by the secretary of the Army or the Air Force.

MISSION. The mission of university-level Reserve Officers' Training is to train college students who have the qualities and attributes essential to progressive and continued development so that they may take their places as junior officers in the Reserve components. In addition, the Army ROTC program provides a source of procurement of junior officers for the Regular Army through the selection of outstanding students for direct appointments as Second Lieutenants. The Air Force ROTC designates certain selected students who may, after eighteen months of active duty, apply for Regular Air Force commissions and receive special consideration. All others commissioned by Air Force ROTC are also eligible to apply for Regular Air Force commissions after completion of a similar active duty tour as a Reserve Officer.

ENTRANCE REQUIREMENTS. In general, any physically qualified male student, who is a citizen of the United States and is more than 14 years of age yet has not reached his twenty-third birthday is eligible for enrollment in the basic course.

Applicants for the advanced course must have completed or received credit for the basic course and must meet current selection criteria and must not have reached their twenty-fifth birthday at time of enrollment in the advanced course.

Certain exceptions to age requirements may be made in the case of veterans.

Special cases of students who are not pursuing a regular four-year academic course at the University or students who have a record of civil court or military court convictions must be referred to the P.M.S. & T. or the P.A.S.T.

It is necessary for nonveteran students desiring to complete the entire ROTC course to register for ROTC when they first enter college as four years are required to complete the course.

OBLIGATION. A member of the ROTC is not in the military service of the United States and membership in the ROTC carries no legal obligation to serve in any of the Armed Forces. The only obligation is to complete the basic or advanced course, once either course is elected. This must not be confused with any obligations required of students who sign a "deferment agreement."

DRAFT DEFERMENTS. Since the mission of the ROTC is to produce junior officers who can be called to serve in times of national emergency, the Armed Forces are authorized to grant deferments from military service, subject to quota limitations, to students who are pursuing an ROTC course and who maintain a satisfactory scholastic standing in their academic studies. At present, the authorized quota is sufficient to defer most formally enrolled ROTC students. Military service is an obligation of citizenship and the deferments granted to ROTC students in no way cancel their obligations under the existing selective service law. All students who are granted deferment from military service are required to sign a "Deferment Agreement" under the provision of Public Law 51 (The Universal Military Training and Service Act of 1951).

UNIFORMS AND EQUIPMENT. Textbooks, training equipment and complete uniforms are issued to all ROTC students without cost. These articles remain the property of the United States and must be returned. Each ROTC student is required to make a \$30 deposit with the Treasurer of the University to cover loss or damage to issued property. This deposit is refunded when all items have been returned to the Military Property Custodian.

Students entering the advanced course receive without cost a complete tailored, officer-type uniform. Upon completion of the advanced course, the student retains this uniform as his own. Commutation of rations (present rate, \$0.90 per day) is paid to all formally enrolled advanced course students, except during the period of attendance at summer camp. During attendance at summer camp, students receive pay amounting to \$75 per month and other allowances.

ROTC COURSES. (See "Courses of Instruction" for a detailed description of ROTC courses.)

The Army ROTC offers courses of instruction in the Infantry and the Quartermaster. All first-year basic (freshmen) ROTC students pursue a course designed to provide the student with a fundamental background in military organization, drill, military courtesy and customs of the service, and basic military subjects. The second, third and fourth-year students specialize in either the Infantry or Quartermaster branches. Advanced course students who desire to be commissioned in a branch of service, other than Infantry or Quartermaster, corresponding to their academic studies, may attend a summer ROTC camp of the branch desired and receive a commission in that branch. For example, an engineering student may attend the Engineer ROTC summer camp and be commissioned in the Corps of Engineers; a student majoring in chemistry may attend the Chemical ROTC summer camp and be commissioned in the Chemical Corps, etc.

The Air Force ROTC course of study is divided into the basic course covering the first two years and the advanced course covering the junior year, summer camp, and the senior year in that order. The course consists of blocks of instruction totaling 480 hours, allocated as follows: freshman and sophomore years—90 hours each; junior and senior years—150 hours each. In addition, the summer camp provides 232 hours. (See "Courses of Instruction.") This course is designed to provide that fundamental training, both personal and professional, which will best fit the cadet to become a well-rounded Junior Air Force officer possessing a high growth potential; and to develop and stimulate a growing desire on his part to enter the Air Force flight training program. Upon completing the course and being selected for commissioning he is assigned a military occupational specialty in accordance with his academic training, his desires and his job experience.

COMMISSIONS. Graduates of the basic course and veterans with more than twelve (12) months active Federal service are eligible to apply for the advanced course, specializing in that department and branch of service for which their basic training and academic back-

ground have fitted them. A student who successfully completes the advanced course and his academic studies leading to a baccalaureate degree may be offered a commission as a Second Lieutenant in the U. S. Army Officers Reserve Corps or the U. S. Air Force Reserve.

Students who have successfully completed the first year advanced course and have shown evidence of outstanding achievement in scholarship or extra-curricular activities are eligible for appointment as Distinguished Military Students upon recommendation of the President of the University and the P.M.S. & T. Distinguished Military Students are eligible to apply for commissions in the Regular Army. Those students who are selected for Regular Commissions will be so appointed on their graduation from the University.

The Air ROTC has a similar program of designation of Distinguished AFROTC Students. Such students may, after serving on active duty eighteen months as reserve officers, apply for Regular Air Force commissions and receive special consideration. All other graduates with Air Force Reserve Officer commissions are eligible to apply for Regular Air Force commissions after serving similar tours of duty.

SPECIAL SCHOOLING. Under the provisions of the Army and Air Force Civil School program, Army and Air Force commissioned graduates may apply for graduate study in specialized fields such as automotive engineering, electronics, meteorology, nuclear physics, business administration, economics, educational administration, international relations, journalism, personnel administration, public administration, and psychology. These specialized studies are pursued at government expense by the student officer in residence at distinguished and eminently qualified institutions and lead to a master's degree, or in exceptional cases, to the degree of Doctor of Philosophy.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes and correspondence study.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a group of persons has agreed upon a course. The size of the group necessary depends upon the distance from the campus. The number and length of class periods are determined by the amount of credit allowed for the course.

CORRESPONDENCE STUDY. Correspondence study extends the privilege of university training even more widely than extension classes. Courses in over 30 departments are offered and are taught by members of the regular faculty. These courses appeal to any person who wishes to engage in systematic study during his spare time. They may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

HIGH SCHOOL SUBJECTS. On July 1, 1942, the Extension Division began teaching high school subjects by mail to care for the needs of students unable to secure needed high school credits in another way. The application of an enrollee must be approved and signed by a high school principal.

ADMISSION. An extension class student or a correspondence student is not required to present an application for admission to the University. A student under 21 years of age cannot enroll in an extension class or in correspondence study for college credit unless he has fifteen units of high school work earned in an accredited secondary school. A person 21 years of age, or over, however, who lacks the required high school units for college entrance may enroll for college credit in any course for which he has adequate ability.

To be admitted to Ohio University for correspondence instruction or for extension class instruction does not imply that the student will be admitted later for study in residence. A separate application must be filed with the Director of Admissions for admission to residence study.

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. No credit toward a master's degree may be earned by the correspondence method.

Students who are employed full time are limited to a registration of six semester hours each semester.

If a student is currently registered in residence at Ohio University, or at another college or university, he must have the written permission of his dean to enroll in correspondence study.

RECOGNITION. In 1931, Ohio University was admitted to membership in the National University Extension Association. This association is made up of over 80 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 correspondence instruction may be secured from the Director of the Extension Division. Registration blanks for extension class instruction may be obtained from the instructor when 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, Athens, Ohio

THE SUMMER SESSION

The Summer Session at Ohio University represents a cross section of the total program of the University with all divisions represented. Instruction is by members of the regular university faculty. The Summer Session is eight weeks in length. At the close of the regular eight-week term, opportunities for further study are made available in accordance with the requirements of students who are interested. Some laboratory and research work is made available and usually a small number of regular courses are offered on a concentrated basis.

Attendance in the Summer Session may be used to reduce the time required to complete a four-year college course. A student who enrolls at Ohio University immediately after high school graduation and who attends all summer sessions, may reasonably expect to graduate in three years.

In the summer of 1954, the eight-week term will open on June 21 and close with Commencement exercises eight weeks later. Courses will be offered in all phases of the regular program of the University, including substantial offerings on the graduate level.

A special bulletin covering the offerings of the Summer Session is available and may be secured by sending a request to the Director of the Summer Session, Ohio University, Athens, Ohio.

THE BRANCHES

Since 1946, Ohio University has offered work at the freshman and sophomore levels in its three branch schools at Chillicothe, Portsmouth, and Zanesville. The branches were originally established on a temporary basis to accommodate the unprecedented number of students desiring to enter college following World War II.

The gradual passing of the emergency following the war has brought a decline in branch enrollment, but because of their importance to well-qualified applicants, Ohio University has made every effort to offer limited educational opportunities in the three cities. The extent and nature of the work to be offered will depend upon (a) enrollment and (b) availability of qualified instructors.

COURSES OF INSTRUCTION

Course offerings of the University
grouped and listed alphabetically
according to departments

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is primarily intended.

- 1- 99 for Freshmen
- 100-199 for undergraduates above the Freshman level
- 200-299 for advanced undergraduates (Juniors and Seniors)
- 300-399 for advanced undergraduates and graduates
- 400-499 for graduates

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester or year course. A *hyphen* between the numbers indicates that the course is a continuous 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 two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number or numbers in parentheses following the course title, and, in case of a year course, is shown for each semester. In a semester course it may be expressed thus: (3), (1 to 3), or (2 or 3); in a year course, (3-3), (3, 3), (1 to 3—1 to 3), or (2 or 3—2 or 3).

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.

In a course carrying variable credit the credit may be expressed thus, (1 to 4), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one semester. A student may enroll for a course with a variable credit any number of times and for any number of semester hours, within the semester limit, provided the total registration for the course does not exceed the maximum credit indicated in the course description.

Course prerequisites are indicated at the end of course descriptions following the abbreviation, "Prereq."

INSTRUCTORS. The instructors in a department are arranged according to seniority of service within the respective ranks.

FEE. When a course requires a fee, the amount is stated in the description of the course.

CLASS SCHEDULE. A Schedule of Classes is published each semester showing the courses that are offered, the time of meetings, the room numbers, and the instructors.

ACCOUNTING

Professors Ray (chairman), Beckert
Associate Professor Fenzel
Assistant Professor Via, Reininga

75-76. ELEMENTARY ACCOUNTING (3-3) Ray, Beckert, Fenzel, Via, Reininga

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships.

125-126. INTERMEDIATE ACCOUNTING (3-3) Beckert, Fenzel, Reininga

Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities, and for corporate net worth; funds and reserves; and investments. Prereq., 76.

175. COST ACCOUNTING (3) Ray

Manufacturing cost determination under the job-order and process systems. Prereq., 125 or 75 and permission.

205-206. ADVANCED ACCOUNTING (3-3) Ray

Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, brokers, estates and trusts, and branches; fund accounting; correction of errors; consolidations, mergers, and financing; and consolidated statements. Prereq., 126.

224. STANDARD COSTS AND BUDGETS (3) Ray

The establishment of standard costs, preparation of budgets, and analysis of cost variances. Prereq., 175.

243. FEDERAL INCOME TAX ACCOUNTING (4) Reininga

A study of the current Internal Revenue Code and its application to Federal income taxes; withholding; and administrative procedure. Prereq., 125.

261b. TEACHING OF BOOKKEEPING (2) Beckert
(Same as Ed. 261b) Prereq., 125.**355. INDUSTRIAL AUDITING AND INTERNAL CONTROL (3) Beckert**

Study of types of internal audits, audit reports, fraud, and an appraisal of the standards of internal auditing as a profession. Basic and internal controls are studied in their relation to the auditor's program. Prereq., 126 and 175.

356. AUDITING PRINCIPLES AND PRACTICE (3) Beckert

Purposes and scope of audits and examinations; audit principles and procedure; application of audit principles to practice material based on actual audit; and audit reports and certificates. Prereq., 126 and 175.

378. C.P.A. PROBLEMS (3) Reininga

The accounting profession; C. P. A. coaching; analysis, interpretation, and solution of state board problems. Prereq., 175, 206, 356.

379. CONTROLLERSHIP (3) Reininga

Study of functions of controller including general accounting, internal control, budgeting, taxes, cost control, and financial reporting. Coordinated interpretation and policy-making by and for directors and management. Prereq., 21 hrs. accounting.

381. RESEARCH IN ACCOUNTING (2 to 8) The Staff
Prereq., 206, 224 and permission.
391. SEMINAR IN ACCOUNTING (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 15 hrs. accounting and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

ADVERTISING

Professor Krauskopf (chairman)
Associate Professor Turnbull

155. ADVERTISING PRINCIPLES (3) Krauskopf, Turnbull
A survey of advertising which considers its place in the field of marketing and its fundamental procedures. Prereq., Mkt. 155 or permission.
286. RETAIL ADVERTISING (3) Krauskopf
The principles of advertising as related to the needs of retailers. Prereq., 155.
332. COPY WRITING (2) Turnbull
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.
376. ADVERTISING PROBLEMS (3) Krauskopf
A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.
381. RESEARCH IN ADVERTISING (2 to 8) The Staff
Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.
391. SEMINAR IN ADVERTISING (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

Additional courses:

- Psych. 135—Psychology of Advertising and Selling
- Jour. 146—Typography, Mechanics, and Make-up
- Jour. 247—Newspaper Advertising and Layout
- Jour. 277—Newspaper Advertising Practice
- Jour. 327—Public Relations Techniques
- Jour. 328—Public Relations
- Jour. 348—Advertising Production
- Radio 309—Radio—TV Advertising and Management
- Design 147-148—Advertising Design

AGRICULTURE

Assistant Professor DeVeau (chairman)

Instructor Rose

Instructor and Farm Superintendent Stright

1. GENERAL AGRICULTURE

(3) DeVeau

Introductory course for students who have not had vocational agriculture training in high school. 2 lec. and 2 lab. Fee, \$3.

3. FORESTRY

(3) Stright

The practical application of forest practices to the farm including identification of common trees and woods. 2 lec. and 2 lab. Fee, \$3.

102. VEGETABLE GARDENING

(3) Rose

Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3.

103. FRUIT GROWING

(3) Rose

Selection of an orchard location. 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

(3) Stright, Rose

A study of fruits other than tree fruits. 2 lec. and 2 lab. Fee, \$3.

108. FLORAL DESIGNING

(2) Rose

The arrangement, in containers, of cut flowers and other plant material for the home. A study of house plants and their care. 1 lec. and 3 lab. Fee, \$5.

109. LANDSCAPE GARDENING

(3) Rose

The principles of landscape planning as applied to gardening of the home grounds, civic improvement, the culture of lawns, ornamental flowers and shrubs. Fee, \$3.

115. SOILS AND FERTILIZERS

(3) Rose

The origin, types, physical properties, and distribution of soils and their relation to crop production. Manures and fertilizers as used in the maintenance of soil fertility. Fee, \$3.

116. FIELD CROPS

(3) DeVeau

A study of the common grain, cereal, forage and pasture crops. Prereq., 115. Fee, \$3.

121. LIVESTOCK PRODUCTION

(3) DeVeau

A study of types and breeds of farm animals other than dairy: their history, development and management. Principles of judging. 2 lec. and 2 lab. Fee, \$3.

124. GENERAL DAIRYING

(3) DeVeau

The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3.

127. POULTRY PRODUCTION

(3) DeVeau

The origin and development of types of breeds, the general care, feeding, and management of poultry; the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3.

201, 202. FARM PRACTICES

(3, 3) Stright

Practical experience on the University Farm. Required of all seniors.

210. NURSERY PRACTICES AND PLANT PROPAGATION (3) Rose
The propagation of trees and ornamental plants commonly grown in nurseries. Establishment and management of a nursery. 2 lec. and 2 lab. Prereq., permission. Fee, \$3.
217. SOIL CONSERVATION (3) Stright
A study of the common practices in soil conservation. 2 lec. and 2 lab. Prereq., 116 or permission. Fee, \$3.
225. ANIMAL NUTRITION (3) DeVeau
A study of the basic principles of nutrition; a study of feeds and their use in balancing rations for farm animals. Prereq., 121, 124, 127.
- 231-232. FLORICULTURE AND GREENHOUSE MANAGEMENT (3-3) Rose
231: a study of cut flowers and pot-plants grown in the greenhouse; the construction and management of greenhouses; important garden flowers and their culture. 2 lec. and 2 lab. Fee, \$2.
232: a study of floral designing with specific cut flowers and pot-plants grown in greenhouses; flower store management. 2 lec. and 2 lab. Prereq., 231 or permission. Fee, \$2.
235. FARM MANAGEMENT (4) DeVeau
The application of agriculture technology and economic information to the securing of maximum income from a farm. 3 lec. and 3 lab. Prereq., 116, 121, 124.
243. ANIMAL BREEDING (3) DeVeau
The practical application of genetics to livestock improvement.
- 268a. TEACHING OF AGRICULTURE (3) DeVeau
(Same as Ed. 268a.) A consideration of aims and materials suitable for agriculture instruction; organizing the agriculture curriculum for all-day, young farmer and adult classes. Prereq., permission.
322. AGRICULTURAL PROBLEMS (2 to 5 a semester in any of the following)
Designed to train the student in some important advanced phase of agriculture. Geared to meet individual problems with emphasis on individual study with systematic instruction. Maximum credit in course, 12 hrs. Prereq., 15 hrs. and permission.
- a. Advanced Animal Breeding—A study of the various systems of breeding and breeding programs. Examination of animal breeding statistics. Practical experience with artificial insemination programs. *DeVeau*.
 - b. Advanced Floriculture—A study of specific greenhouse plants including practical experience in cultural methods and floral designing. *Rose*.
 - c. Agricultural Organizations—An examination of the various agencies related to agriculture: government, state, co-operative, and private business enterprises. *DeVeau*.
 - d. Animal Diseases—A study of animal and poultry diseases, their symptoms, prevention, diagnosis, treatment and control. *DeVeau, Stright*.
 - e. Dairy Production—Specific study of dairy husbandry with emphasis on breeding and management. *DeVeau, Stright*.
 - f. Farm Buildings and Machinery—A study of farm buildings and machinery. Practice in planning a farm building. Practice in constructing a farm structure. *DeVeau, Stright*.
 - g. Pomology—A study of fruit production; disease, spraying systems and storage. *Rose*.

- h. Poultry Production—A study of the technical phases of poultry raising. Accompanied with specific problems in poultry management. *DeVeau, Stright.*
 - i. Plant Propagation—The assignment of a special problem pertaining to the propagation of ornamental plants. *Rose.*
 - j. Soil Analysis—The study of soil composition. *Rose.*
381. RESEARCH IN AGRICULTURE (2 to 5) The Staff
Maximum credit in course, 10 hrs. Prereq., permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

ARCHAEOLOGY AND ANTIQUITIES

The major requirement in archaeology for the A.B. degree is 24 semester hours selected from the courses listed below, with at least 10 hours selected from courses 101, 252, and 340.

101. INTRODUCTION TO ARCHAEOLOGY (3) V. D. Hill

The development of archaeology to its present status of dignity and scientific method. Aims, methods and techniques; general types of archaeological work and excavation with emphasis on important sites.

252. ARCHAEOLOGY OF THE MEDITERRANEAN AREA (3) V. D. Hill

The archaeology of Egypt, Palestine, Greece, and the Aegean islands, with emphasis on Minoan (Cretan) and Mycenaean civilization; to a lesser extent the archaeological remains of the Roman period. Prereq., 101, or 11 hrs. foreign language, or 8 hrs. history (or art history) and antiquities.

340. SPECIAL WORK IN ARCHAEOLOGY (2 to 4 a semester in any field) V. D. Hill

Special study in selected phases and types of archaeology, such as the Biblical, early eastern, classical, and the more prominent cultures of Central and South America. Maximum credit in course, 12 hrs. Prereq., 252.

Additional courses (fuller descriptions under appropriate departments):

Art Hist. 371—Latin-American Art*. From the pre-Columbian period to the present. Term paper may be specifically archaeological.

Ed. 350—The History of Education. Including ancient, classical, medieval, and modern.

Eng. 284—Mythology in English and American Literature. Classical, Teutonic, and Scandinavian.

F. A. 121—History of Painting and Sculpture.* Art from the earliest times to the Renaissance.

F. A. 175—History of Architecture. From prehistoric times to the Renaissance.

Geol. 126-127—Historical Geology. Origin of the earth and its forms of life.

Geol. 340-341—Paleontology.* Invertebrate fossils, including larger forms of ancient animal life.

Gk. 14—Ancient Greek Epic in English. (For Greek courses see "Classical Languages.")

*This and other courses starred are more specifically archaeological.

Gk. 55, 56—Contributions of Ancient Greek Civilization.

Gk. 301—Greek Drama in English.

Hist. 115—Ancient History. From prehistoric times.

Lat. 329—Development of Roman Culture.* Beginning with the archaeological evidence. (For Latin courses see "Classical Languages.")

Lat. 331—The Life of the Romans.* Including evidence from archaeology and antiquities.

Phil. 301—History of Ideas: Ancient and Medieval.

ARCHITECTURE

Associate Professor Denison

Lecturer LeBoutillier

55. FUNDAMENTALS OF ARCHITECTURE (3) Le Boutillier
The nature of architecture. Progressive drafting room exercises. Simple problems revealing the approach to architectural design. 1 lec. and 4 lab.
56. FUNDAMENTALS OF ARCHITECTURE (3) Le Boutillier
The principles of architectural design. A continuation of the drafting room exercises and techniques of 55. 1 lec. and 4 lab. Prereq., 55.
- 155-156. ARCHITECTURAL DESIGN (5-5) Le Boutillier
The planning and the theory of architecture. Design of small industrial, commercial, and public buildings. 1 lec. and 6 lab. Prereq., 56.
179. ARCHITECTURAL MATERIALS (3) Denison
A study of the materials used in buildings and the selection of these materials and equipment. 2 lec. Prereq., permission.
183. ARCHITECTURAL EQUIPMENT (3) Denison
A study of the mechanical equipment used in buildings. The design of plumbing and heating systems. 2 lec. Prereq., Phys. 5, 6 or permission.
257. FUNDAMENTALS OF RESIDENTIAL ARCHITECTURE (2) Denison
Lectures on the fundamentals of residential architecture and housing. Prereq., permission.
258. FUNDAMENTALS OF RESIDENTIAL ARCHITECTURE (3) Denison
Drafting room exercises supplementing lecture material in 257. 6 lab. Prereq., 257.
- 281-282. ARCHITECTURAL CONSTRUCTION (2-2) Denison
An introductory study of methods of architectural construction in wood, steel, concrete and masonry as applied to residential and small commercial and public buildings. 2 lec. Prereq., Math. 5-6 or permission.
284. WORKING DRAWINGS (2) Denison
Drafting room application of uses of materials and construction principles. 4 lab. Prereq., 179, 282.
- 285-286. ARCHITECTURAL PROBLEMS (5-5) Le Boutillier
A continuation of 156 dealing more extensively with commercial and public buildings, with emphasis on design and construction considerations. 6 lab. Prereq., 156, 282.

301. WORKSHOP IN ARCHITECTURE (1 to 3) The Staff
Supervised individual projects. Maximum credit in course, 12 hrs.
Prereq., senior major.
375. ARCHITECTURE IN THE UNITED STATES (2) Denison
Development of architecture as a continuing reflection of civilization
from colonial times to the present. Importance of European influence.
Prereq., 8 hrs. including F.A. 175-176 or equivalent.

ART

Professors Mitchell, Way
Associate Professors Willis, Work
Assistant Professors Leonard, C. L. Smith
Instructors Olpp, Hostetler
Visiting Lecturer Mutchler
Visiting Instructors Nass, D. O. Roberts

ART HISTORY

125. ART IN EVERYDAY LIFE (2) Way
Planned to help the student appreciate and select the best articles
available for the home, costume, etc., according to their functional
qualities.
303. ITALIAN RENAISSANCE PAINTING (3) Olpp
The development of painting in Italy during the Renaissance from
the early Florentine and Sieneese schools through the fifteenth and six-
teenth centuries in central and northern Italy. Prereq., 12 hrs., including
F. A. 122.
371. LATIN-AMERICAN ART (3) Olpp
Architecture, sculpture, and painting of the Hispanic Southwest,
Mexico, Central America, the Caribbean area, and South America from
Pre-Columbian times to the present. Prereq., F. A. 122 and F. A. 176.
390. SEMINAR IN ART HISTORY (2 or 3) Olpp
Individual and group problems on periods and movements. Detailed
reports. Maximum credit in course, 10 hrs. Prereq., 18 hrs. including
F. A. 122.
- Additional courses: F. A. 121-122—History of Painting and Sculp-
ture and F. A. 175-176—History of Architecture.

DESIGN

- 1, 2. BEGINNING DESIGN (2, 2) Roberts
An introduction to the principles and elements of design. 4 lab.
3. ELEMENTARY DESIGN FOR TEACHERS (2) Nass
Elementary principles in design, color, and lettering. Planned for
students who expect to major in elementary education. 1 lec. and 3 lab.
Fee, \$3.
11. BASIC DESIGN (2) Work
Problems in organization of lines, forms, value, space, texture, and
color. 2 lec. and 2 lab.

12. BASIC DESIGN (2) Work, Willis
Study of harmony and structural use of color. 2 lec. and 2 lab. Prereq., 11.
91. DESIGN AND COMPOSITION (3) Willis
Problems with special emphasis on color and design. Planned for students who expect to major in home economics. 1 lec. and 5 lab.
102. APPLIED DESIGN (3) Willis
Principles applied to posters, wall hangings, panels, and table decorations. 2 lec. and 4 lab. Prereq., 2 or 91.
107. ADVANCED DESIGN (3) Willis
Composition in different media with special emphasis on practical design. 2 lec. and 4 lab. Prereq., 2 or 12.
- 113-114. LETTERING (3-3) Smith
Basic relationships to typography. Application in the production of posters, book jackets, trade-marks. Experimentation with various media, including airbrush, dry brush and scratchboard. 6 lab. Prereq., 2 or 12.
120. TEXTILE DESIGN (3) Way
All-over patterns with emphasis on art principles. Weaving, block printing, silk screen. Maximum credit in course, 6 hrs. 2 lec. and 4 lab. Prereq., 107 or permission. Fee, \$3.
123. JEWELRY (2) Willis
Original designs executed in silver and cooper. Maximum credit in course, 6 hrs. 1 lec. and 3 lab. Prereq., 12 or 102, and permission. Fee, \$2.
137. COSTUME DESIGN (2) Way
Design in relation to dress and to individual characteristics. Adaptation of historic styles to modern costume. 1 lec. and 3 lab. Prereq., 12 or 91 and Paint. 28 or with Paint. 28.
- 147-148. ADVERTISING DESIGN (2-2) Smith
Magazine, newspaper, and direct mail layout. Emphasis on creative design and advertising production. 4 lab. Prereq., 107 and 113 or with 107 and 113.
- 160c. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS (1 to 3) Leonard, Nass
(Same as Ed. 160c) Problems in modeling, ceramics, bookbinding, lettering, painting, and other activities related to elementary school problems. Prereq., 3. Fee, \$3.
240. DESIGN APPLIED TO MATERIALS (2) Nass
For art majors planning to teach art in the elementary and secondary fields. Prereq., 9 hrs. Fee, \$3.
- 260h. TEACHING OF ART (3) Way
(Same as Ed. 260h) Prereq., 20 hrs. as specified for certification.
- 271-272. INTERIOR DESIGN (3-3) Way
A brief study of architectural details and historic styles of furniture as used in modern homes. House plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 2 or 12, Arch. 55 and permission.
301. WORKSHOP IN DESIGN (1 to 3) The Staff
Students assigned projects for practical experience. Maximum credit in course, 9 hrs. 3-9 lab. Prereq., 12 hrs. and permission.

313. **ADVANCED INTERIOR DESIGN** (3) Way
 Perspective drawings rendered in color. Research stressed and original adaptations made from styles of important periods. Maximum credit in course, 12 hrs. 2 lec. and 4 lab. Prereq., 272 and permission.
- 317-318. **ADVANCED ADVERTISING DESIGN** (3-3) Smith
 Comprehensive problems in magazine, newspaper, direct mail, and display layout. 6 lab. Prereq., 148, Paint. 75, and Advt. 155.
321. **ADVANCED COSTUME DESIGN AND ILLUSTRATION** (2) Way
 Application of art principles to magazine illustration of dress design. Details of costume. Page layout, trousseaux. Maximum credit in course, 10 hrs. 1 lec. and 3 lab. Prereq., 12 hrs., including 137 and Paint. 128.
325. **ADVANCED JEWELRY** (2) Willis
 A continuation of 123. Maximum credit in course, 6 hrs. 1 lec. and 3 lab. Prereq., 12 hrs., including 123. Fee, \$2.
- 351-352. **INDUSTRIAL DESIGN** (2-2) Smith
 Design and presentation of industrial products with emphasis on function, appearance, and material. Presentation sketches, detail drawings, scaled models. 4 lab. Prereq., 12 hrs., including Sculp. 231.
381. **RESEARCH IN DESIGN** (1 to 5) The Staff
 Individual or group problems of a practical nature. Emphasis on method and source material. Maximum credit in course, 10 hrs. 3-15 lab. Prereq., 15 hrs. and permission.
491. **SEMINAR IN DESIGN** (1 to 5) The Staff
 Problems involving library research toward practical solutions. Indicated for thesis plans. Maximum credit in course, 10 hrs. Prereq., 18 hrs. and permission.
495. **THESIS** (1 to 6) The Staff
 Prereq., permission.

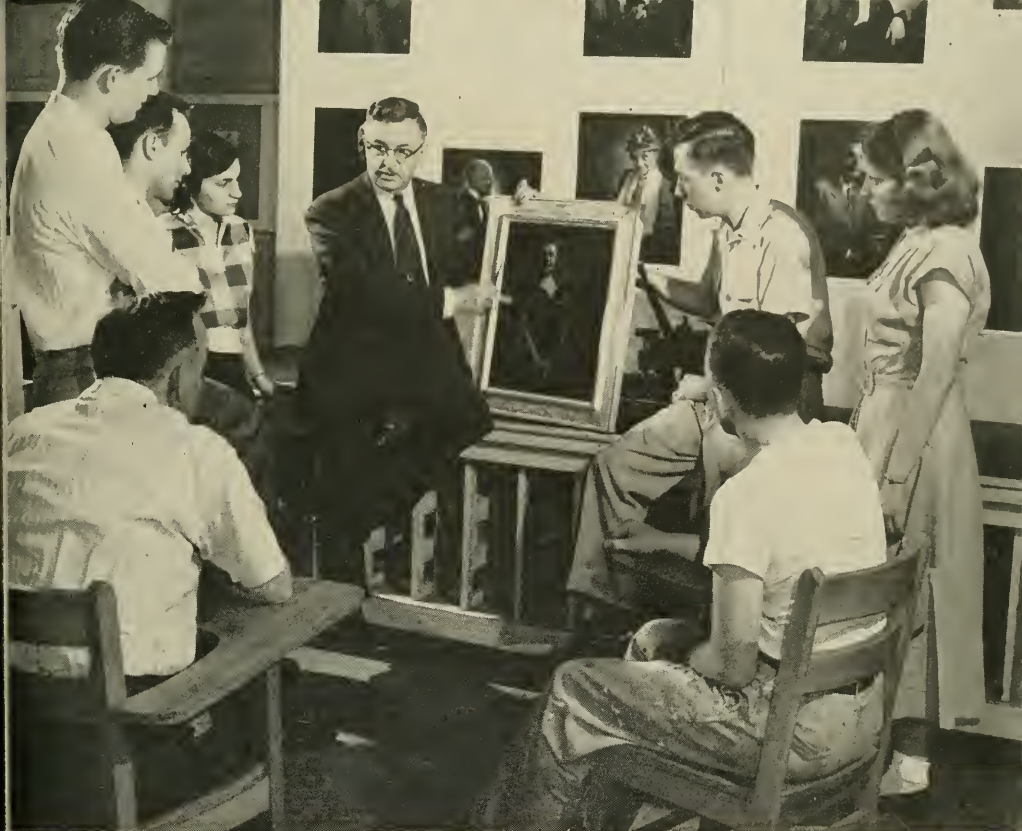
PAINTING AND DRAWING

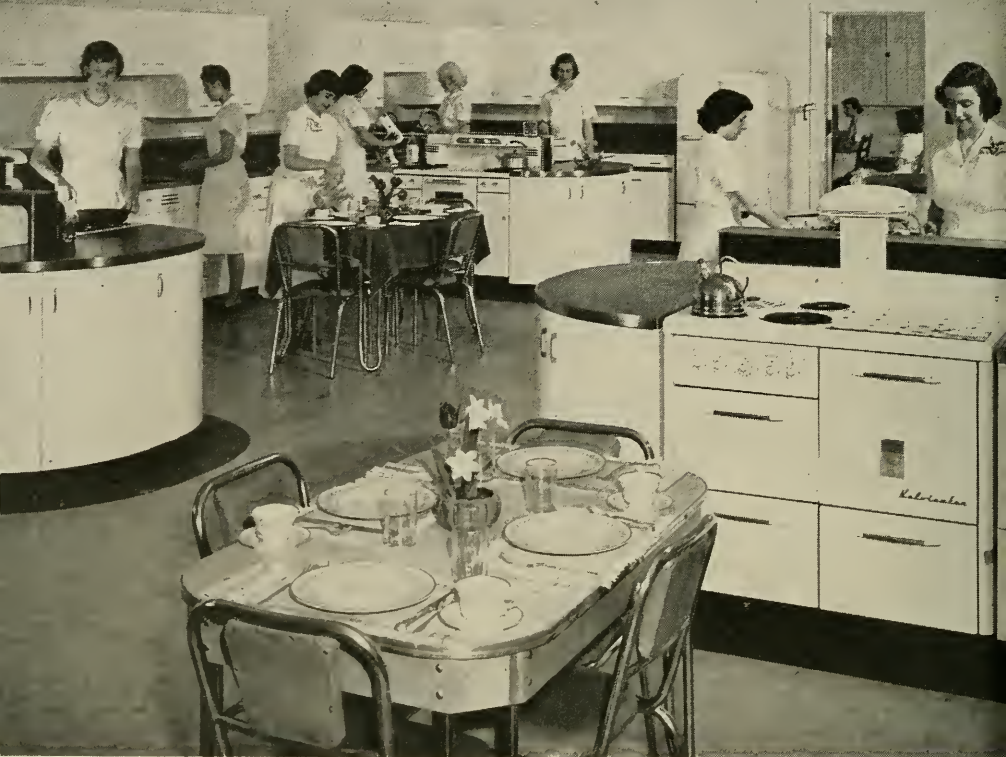
28. **FIGURE DRAWING** (2) Mutchler
 A study of the human figure with emphasis on proportion and structure. Maximum credit in course, 6 hrs. 4 lab. Fee, \$4.
- 45-46. **BASIC REPRESENTATION** (2-2) Mitchell
 Linear representation of form. Visual perspective with emphasis on theory. 1 lec. and 3 lab.
71. **SKETCHING** (2) Way
 Quick sketches of animals, out-of-door sketching, contour drawing of objects. Studio interpretation in various media. Maximum credit in course, 4 hrs. 1 lec. and 3 lab. Fee, \$2.
75. **REPRESENTATION** (3) Mitchell
 Practice in methodical representation in light and shadows. Pencil crayon, charcoal, wash, pen, and dry brush. 6 lab. Prereq., 46.
76. **DEPTH** (3) Mitchell
 Methodical practice with color variations in depth. 1 lec. and 5 lab. Prereq., 75.

117. FORM AND COMPOSITION (3) Willis
The foundation principles of form as used in contemporary art problems in dark and light and color with emphasis on composition. 2 lec. and 4 lab. Prereq., 45 and Design 2 or 12.
118. WATER COLOR (3) Work
Experience in painting in the studio and out-of-doors. 6 lab. Prereq., 8 hrs.
128. ADVANCED FIGURE DRAWING (2) Mutchler
Accent on anatomical construction. For students who have a minimum grade of "B" in the second semester of 28. Prereq., permission. Fee, \$4.
205. PAINTING (2 or 3) Mitchell, Mutchler, Way, Willis, Work
Practical application in color mediums. Maximum credit in course, 12 hrs. 6-9 lab. Prereq., 10 hrs. or permission.
- 209-210. PRINTS (3-3) Mutchler
Silk screen, linoleum and wood blocks, etchings, aquatint dry-point, lithography, and other related subjects. 2 lec and 4 lab. Prereq., 12 hrs. and permission. Fee, \$5 a semester.
315. ADVANCED FORM AND COMPOSITION (2) Willis
Advanced problems in modern composition. Maximum credit in course, 4 hrs. 4 lab. Prereq., 12 hrs., including 117 and permission.
328. LIFE DRAWING (3) Mutchler
Application of techniques toward representation of the human figure. Maximum credit in course, 12 hrs. Prereq., 12 hrs., including 128 or permission.
341. ADVANCED PAINTING. (2 or 3) Mitchell, Mutchler, Way, Willis, Work
Practical problems involving advanced techniques. Maximum credit in course, 12 hrs. 6-9 lab. Prereq., 205.
431. ADVANCED PICTORIAL COMPOSITION (3 to 6) The Staff
Emphasis on visual organization using any generally accepted media. Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.
436. DECORATIVE COMPOSITION (3) The Staff
Individual problems involving advanced techniques in graphic or plastic execution. Emphasis on organization. Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.
491. SEMINAR IN PAINTING (1 to 5) The Staff
Problems involving library research toward practical solutions. Indicated for thesis plans. Maximum credit in course, 10 hrs. Prereq., 20 hrs. and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

SCULPTURE AND CERAMICS

115. CERAMICS (3) Hostetler
Production processes, including flop-over-molds, the potter's wheel, slab method, hewn method, slip casting. Introduction to the chemistry of glazes and simple geology of clays. Field trips to potteries and native clay deposits. 1 lec. and 5 lab. Fee, \$5.





116. CERAMICS (3) Hostetler
 Decorative techniques, including Mishima, Sgraffito, slip trailing, over and under glaze. Slide lectures concerning decorative techniques of ancient and contemporary ceramic art. Introduction to glaze testing methods. 1 lec. and 5 lab. Prereq., 115. Fee, \$5.
231. SCULPTURE (3) Hostetler
 Modeling from life in clay. Casting techniques with plaster and stone. Work with terra-cotta, natural colored native clays, and glazed clay sculpture. Maximum credit in course, 12 hrs. 6 lab. Prereq., Paint. 28. Fee, \$5.
301. WORKSHOP IN PLASTIC DESIGN (2 or 3) Hostetler
 Supervised individual projects. Maximum credit in course, 12 hrs. Prereq., 12 hrs. and permission. Fee, \$5.
316. ADVANCED CERAMICS (3) Hostetler
 Advanced pottery production methods such as jiggering, block and case casting. Construction of potter's wheel, ball mill, and electric kilns. Advanced glaze and clay testing techniques. Maximum credit in course, 12 hrs. 6 lab. Prereq., 12 hrs., including 116 and permission. Fee, \$5.
327. ENAMELING (2) Hostetler
 Design and construction of metallic objects toward ceramic application of enamels. 1 lec. and 3 lab. Prereq., 12 hrs., including 115 and Design 123. Fee, \$4.
495. THESIS (1 to 6) The Staff
 Prereq., permission.

ASTRONOMY

Professor Goedicke

11. ELEMENTARY ASTRONOMY (2 or 3) Goedicke
 Time, latitude, and longitude from celestial observations. Distances, motions, and physical properties of sun, moon, planets, comets, meteors, and meteorites. Atmospheres and surface conditions of other planets. 2 lec. and 2 lab. Credit in course without lab., 2 hours. Lab. must be included if course is to fulfill science graduation requirements. Prereq., Math. 3, or 2 yrs. high school mathematics. Fee, \$4.
12. ELEMENTARY ASTRONOMY (2 or 3) Goedicke
 Distances, motions, and physical properties of the stars, the nebulae, and the galaxies. Modern theories of the origin and evolution of the stars and galaxies. 2 lec. and 2 lab. Credit in course without lab., 2 hours. Lab. must be included if course is to fulfill science graduation requirements. Prereq., Math. 3, or 2 yrs. high school mathematics. Fee, \$4.
135. ELEMENTS OF NAVIGATION (2) Goedicke
 Basic navigational astronomy; the use of the sextant; the Nautical Almanac; the Line of Position Method as used in air and surface navigation. Prereq., Math. 5.
350. STUDIES IN ASTRONOMY (1 to 4) Goedicke
 Selected topics in astronomy will be studied. Prereq., 11, 12, and permission.

ATHLETICS—See Physical Education and Athletics

BIOLOGY

- 1, 2. THE LIVING WORLD (3, 3) The Staff
(See "General Studies")

- 268b. TEACHING OF BIOLOGY (2) Stehr, Wallace
(Same as Ed. 268b) A consideration of the purposes of high school biology, instructional materials, classroom methods, source of laboratory equipment and supplies, and examination techniques. Prereq., 12 hrs. biological science.

BOTANY

Associate Professor Blickle (chairman)
Assistant Professors Vermillion, Wallace, Gambill
Instructor Boyce

The major requirement in botany for the A.B. degree is a minimum of 18 hours, and for the B.S. degree 24 hours, in courses numbered above 100 at least six hours of which are to be selected from courses numbered above 300. The major program must include Bot. 4, 105, 106, 117, and 173.

- 3-4. GENERAL BOTANY (3-3) The Staff

A study of the structure and functions of plants and a survey of the groups of the plant kingdom, their life cycles, classifications, reproduction, genetics and their fundamental interrelations with each other and with man and other animals. 2 lec. and 2 lab. Fee, \$5 a semester.

105. ELEMENTARY PLANT PHYSIOLOGY (Basic) (3) Wallace

A course treating of the physiology of plant growth, responses and reproductions and of the applications of physiological relations of plants to industry, agriculture, and forestry. 2 lec. and 4 lab. Prereq., 4, or Biol. 2 and 1 yr. of chemistry in high school or college. Fee, \$5.

106. SPRING FLORA (3) Gambill

The collections, identification and classification of the flowering plants through the study chiefly of the native flora, and involving both laboratory and field study methods; field trips required. Prereq., 4, or Biol. 2, or Agr. 3, or permission. Fee, \$5.

108. VEGETATION OF NORTH AMERICA (2) Boyce

An illustrated lecture-demonstration course considering the extensive plant formations of the continent. Prereq., 1 yr. in natural science. Fee, \$3.

111. PLANT ANATOMY (3) Blickle

A course designed to embody a comprehensive study of the internal structure of the vascular plant body. 2 lec. and 2 lab. Required for a major in Preforestry. Prereq., 4, Biol. 2, or permission. Fee, \$5.

117. DENDROLOGY (3) Gambill

A field course in collection and identification of native and introduced woody plants in both summer and winter condition. Required for a major in Preforestry. Prereq., 4, or Biol. 2 or Agr. 3, or permission. Fee, \$5.

173. **ELEMENTARY PLANT MORPHOLOGY** (3) Blicke
 A course stressing the plant's true structural nature and the inner relationship of its parts through an analysis of the various plant groups except the fungi. 2 lec. and 2 lab. Prereq., 4 or Biol. 2 and permission. Fee, \$5.
210. **PLANT BREEDING AND GENETICS** (3) Wallace
 A course dealing with new experimental and practical analytical methods of studying the evolution of plants. 2 lec. and 2 lab. Prereq., 4 or Biol. 2, and Agr. 116 or permission. Fee, \$5.
212. **HISTOLOGICAL TECHNIQUE** (3) Blicke
 The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of photomicrographic camera, camera lucida, calibration, and photomicrographic practices. 2 lec. and 2 lab. Prereq., 111 or 173 and permission. Fee, \$6.
223. **INTRODUCTORY MYCOLOGY** (3) Vermillion
 A general survey field and laboratory course designed to give the student a working knowledge of the various kinds of fungi. Both taxonomy and morphology are stressed, one supplementing the other. 2 lec. and 2 lab. Prereq., 4 or Biol. 2 and permission. Fee, \$5.
- 268b. **TEACHING OF BIOLOGY** (2) Stehr, Wallace
 (Same as Ed. 268b) See also, Biology.
303. **PLANT ECOLOGY** (4) Boyce
 A course dealing with the biological studies of natural plant communities, the environmental factors and their dynamics. 3 lec. and 2 lab. Prereq., 105, or 106, or 108. Fee, \$5.
304. **FOREST ECOLOGY** (3) Boyce
 The ecological foundations of forestry with special reference to forest site factors; the influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; the methods of studying forest environment. 2 lec. and 2 lab. Prereq., 105 or 303 or 117. Fee, \$5.
306. **GENERAL PLANT PHYSIOLOGY** (4) Wallace
 A study of the primary functions of seed plants with emphasis on nutrition, metabolism, growth, water relations, and the physiology of reproduction. 2 lec. and 4 lab. Prereq., 105. Fee, \$6.
307. **ADVANCED PLANT PHYSIOLOGY** (4) Wallace
 An advanced study of plant processes with special emphasis on techniques employed in research with hydroponics, phytohormones, and tissue culture. 2 lec. and 4 lab. Prereq., 105 or 306. Fee, \$5.
311. **PALEOBOTANY** (3) Blicke
 A study of the fossil representatives of the greater plant groups and the sequence of fossil floras throughout geological time. Special attention is given the lapidary technique and field-laboratory methods. Field trips required. 2 lec. and 2 lab. Prereq., 111 or 173 and Geol. 2 and permission. Fee, \$5.
313. **GENERAL PLANT MORPHOLOGY** (3) Blicke
 A general consideration of the basic principles and concepts of plant structure as exemplified by the mosses, liverworts, ferns, and seed plants. 2 lec. and 2 lab. Prereq., 111 or 173. Fee, \$5.

314. ADVANCED PLANT MORPHOLOGY (3) Blicke

A course specifically for botany and forestry majors embodying detailed analyses of seed plant gross structures and their comparative evolutionary relations. 2 lec. and 2 lab. Prereq., 173 or 313. Fee, \$5.

315. SYSTEMATIC BOTANY (3) Gambill

A study of the systematics, nomenclature and phylogeny of the higher plants, beginning with the ferns; relationships of the principal orders and families; problems of nomenclature; identification of specimens. 2 lec. and 2 lab. Prereq., 106 or 117, or permission. Fee, \$5.

316. TAXONOMY OF THE NONVASCULAR PLANTS (3) Gambill

A course dealing with the classification and phylogeny of the bryophytes and lichens; field trips required. 2 lec. and 2 lab. Prereq., 173. Fee, \$5.

318. PLANT TECHNOLOGY (3) Blicke, Vermillion

The structure, identification, properties and uses of North American forest products, with special attention given to the macroscopic and microscopic structure. 1 lec. and 4 lab. Required for a major in pre-forestry. Prereq., 111 or 117. Fee, \$5.

321-322. PLANT PATHOLOGY (3-3) Vermillion

A general course dealing with the nature, cause, and control of plant diseases. 2 lec. and 2 lab. Prereq., 4, or 223, or 6 hrs. agriculture. Fee, \$5 a semester.

324. FOREST PATHOLOGY (3) Vermillion

A study of various types of diseases affecting native and planted forest trees and shrubs. The economic importance, prevention and control of such disease is emphasized. A course specially designed for farm-forestry and forestry students. 2 lec. and 2 lab. Prereq., 111 or 117 or 223 or 321. Fee, \$5.

325. APPLIED MYCOLOGY (3) Vermillion

A course designed to acquaint the student with ways in which man makes use of fungi in industry, in medicine, and in various other ways. The physiology of fungi is stressed. 2 lec. and 2 lab. Prereq., 223 or 321. Fee, \$5.

343. BOTANICAL STUDIES (2 to 4 a semester in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental studies under the combined supervision of instructors from botany and/or other departments. Maximum credit in any listed area, 8 hrs. Prereq., 9 hrs.; or 6 hrs. and 6 hrs. in chemistry, physics, geology, or zoology. Fee, \$5.

- a. Plant Morphology—studies of the fundamental plant form, structure, life cycles, and reproduction. Blicke
- b. Plant Physiology—studies of the primary functions, processes, and growth phenomena of plants. Wallace
- c. Plant Ecology—studies of the interrelations of plants to one another and to the environment. Boyce
- d. Plant Classification—studies in the principles, theories, and systems of plant classification and the phylogenetic relations of plants. Gambill
- e. Plant Diseases—studies in the nature, prevention, cause, and control of plant diseases. Vermillion
- f. Plant Breeding—the study of the several methods of hybridization of higher plants, polyploidy and speciation. Wallace
- g. Mycology—advanced studies concerning nonpathogenic macrofungi and microfungi. Vermillion

381. RESEARCH PROBLEMS (1 to 4) The Staff
Independent research. Maximum credit in course, 8 hrs. Prereq., 12 hrs. and permission. Fee, \$3.
- 391, 392. SEMINAR IN BOTANY (1, 1) The Staff
Advanced study and original research. Required of all majors and graduate students. Prereq., 12 hrs. and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

BUSINESS LAW

Associate Professor Romig (chairman)

- 255-256. BUSINESS LAW (3-3) Romig
The principles of law involved in contracts, agency, sales, negotiable instruments, partnerships, and corporations.
275. GOVERNMENT AND BUSINESS (3) Romig
A study of statutes and court decisions by which government controls, regulates, and aids business under the commerce clause, the police power, and the anti-trust laws.
342. LAW OF REAL ESTATE (2) Romig
Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 256.
381. RESEARCH IN LAW (2 to 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 256 and permission.

CERAMICS—See Art

CHEMISTRY

Professors Dunlap, Clippinger, Eblin (chairman)
Associate Professors Gullum, Day
Assistant Professors Huntsman, Kline, Ingham, Curry
Instructor Smallegan

The Department of Chemistry is accredited by the American Chemical Society. This means that a student who completes the requirements for the B.S. degree with a major in chemistry, as outlined below, or for the B.S. in Chemistry degree, as outlined on page 100, is eligible for professional status in the Society in the minimum period of two years of professional experience after graduation. Completion of the minimum requirements for the A.B. degree with a major in chemistry, as outlined below, *does not qualify* a student for certification to the Society.

The major requirement in chemistry for the B.S. degree is a minimum of 40 hours including Chem. 1-2 or 3-4; 105 or 106; 109-110; 201-202; 203-204; 313-314 (with Math. 102 and Phys. 6 or 114 as prerequisites); 315.

The major requirement in chemistry for the A.B. degree is a minimum of 27 hours including Chem. 1-2 or 3-4; 105 or 106; 109-110 or 107; 201-202 or 113; 203 or 117; 313-314 (with Math. 102 and Phys. 6 or 114 as prerequisites) or 6 hours of chemistry electives above 300. A

full year's work is required in at least one of the following subjects: Quantitative Analysis (109-110), Organic Chemistry (201-202), Physical Chemistry (313-314).

For the requirements for the B.S. in Chemistry degree, see page 100.

Students having foreign language requirements should take German, including Ger. 103. Those anticipating graduate study should obtain a reading knowledge of both German and Russian or French.

Chemistry majors working toward either the A.B. or the B.S. degree are urged to consider Eng. 291, Geol. 201, and Math. 107 as possible electives.

The major requirement in chemistry for the B.S. in Education degree is given on page 132.

1-2. GENERAL CHEMISTRY (4-4) Day, Gullum, Ingham, Smallegan

A beginning course in chemistry for those who have had no previous training in the subject or those advised on basis of mathematics and reading tests. 3 lec. and 3 or 4 lab. Offered each semester. Fee, \$10 a semester.

3-4. GENERAL CHEMISTRY (4-4) Huntsman, Kline, Smallegan, Eblin

A course in general chemistry for those who have had high school chemistry and who make a satisfactory grade in the mathematics and reading tests. Laboratory in Chem. 4 is semi-micro qualitative analysis. 3 lec. and 3 or 4 lab. Prereq., high school chemistry. Fee, \$10 a semester.

105, 106. QUALITATIVE ANALYSIS (3, 3) Gullum

The separation and detection of cations and anions. Chem. 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 6 lab. Prereq., for 105, 2 or 4; for 106, 105 or 4. Fee, \$10 a semester.

107. QUANTITATIVE ANALYSIS (4) Day

A one-semester course in analytical chemistry designed for students not majoring in chemistry. It includes the practical, theoretical, and problem phases of analytical procedure. 2 lec. and 6 lab. Offered second semester only. Prereq., 4 or 105 or permission. Fee, \$12.

109-110. QUANTITATIVE ANALYSIS (5-5) Clippinger

Chem. 109 is primarily volumetric analysis. In Chem. 110 the following phases are considered: gravimetric procedures, electrolytic and electrometric analysis, colorimetry, and polarography. 3 lec. and 6 lab. Prereq., 4 or 105 or permission. Fee, \$12 a semester.

113. ORGANIC CHEMISTRY (4) Curry

A one-semester course in the fundamentals of organic chemistry designed for students not majoring in chemistry or pre-medicine. Offered first semester only. Prereq., 2 or 4.

117. ORGANIC CHEMISTRY LABORATORY (2) Dunlap

A one-semester laboratory course in organic preparations and reactions to accompany Chem. 113. Offered first semester only. 6 lab. Prereq., 113 or with 113. Fee, \$12.

201-202. ORGANIC CHEMISTRY (3-3) Ingham, Huntsman

A comprehensive course in organic chemistry which integrates current concepts with a sound classical background. Designed for chemistry and premedical majors as well as others wishing a thorough introductory course in organic chemistry. Prereq., 107 or 109 or with 107 or 109, or permission of instructor.

203-204. ORGANIC CHEMISTRY LABORATORY (2-2) Ingham, Dunlap

Practical laboratory work in organic chemistry including the preparation of typical organic substances and an introduction to qualitative organic analysis. Designed to accompany Chem. 201-202. 6 lab. Prereq., 201 or with 201. Fee, \$12 a semester.

210. STOICHIOMETRY (3) Dunlap, Curry

An introductory course in chemical calculations for students planning to enter the industrial field. Solution of problems involving material balance, energy balance, and equilibrium relations. Prereq., 109 or permission; or junior standing in mechanical engineering. Offered second semester only.

268s. TEACHING OF PHYSICAL SCIENCES (2)

(Same as Ed. 268s) Objectives, materials, methods, evaluation. Prereq., one course in chemistry or physics.

305. ADVANCED QUANTITATIVE ANALYSIS (3) Clippinger, Day

Methods of instrumental analysis. Colorimetry, spectrophotometry, electrometry, and polarography. Prereq., 110 and permission. Fee, \$12.

313-314. PHYSICAL CHEMISTRY (3-3) Eblin

Not open to graduate students majoring in chemistry. Prereq., 110 or permission, Math. 102 and Phys. 6 or 114.

315, 316. PHYSICAL CHEMISTRY LABORATORY (3, 3) Eblin

6 lab. Prereq., 313 or with 313. Fee, \$12 a semester.

317, 318. ADVANCED PHYSICAL CHEMISTRY (3, 3) Day

First semester: Chemical Thermodynamics. Prereq., 314.

Second semester: Chemical Kinetics. The kinetics of homogeneous and heterogeneous reactions; reactions in solution; catalysis; photo-activated reactions; and the theory of absolute reaction rates. Prereq., 314.

321. QUALITATIVE ORGANIC ANALYSIS (4) Dunlap

The separation and identification of organic compounds. Preliminary to research in chemistry. 2 lec. and 6 lab. Prereq., 204. Fee, \$12.

325. ELECTROCHEMISTRY (2) Clippinger

The fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, polarization, and depolarization. Practical applications of electrolytic reduction and oxidation. Prereq., 313 or with 313.

328. COLLOID CHEMISTRY (3) Kline

The chemistry of small particles, large molecules, and methods of determining their sizes and shapes. Applications to industrial and physiological types of colloidal behavior. Open to zoology majors desiring some background in bio-physical chemistry. Prereq., 16 hrs. Offered second semester only.

329-330. PRINCIPLES OF UNIT OPERATIONS (3-3) Curry

A study of the fundamental principles of unit operations with problems to illustrate the principles. Prereq., 210 and 313 or with 313; or senior rank in mechanical engineering.

331, 332. UNIT OPERATIONS LABORATORY (2, 2) Curry

Unit processing and laboratory practice in heat transfer, filtration, distillation, etc. Prereq., for 331, 329, or with 329; for 332, 330 or with 330. Fee, \$12 a semester.

333-334. ADVANCED INORGANIC CHEMISTRY (3-3) Kline

First semester: An introduction to modern theoretical inorganic chemistry including elementary quantum theory, molecular structure, and periodic properties. Prereq., 313 or permission of instructor.

Second semester: A study of the families of elements and their compounds based on modern theoretical concepts. Prereq., 333.

343. ADVANCED ORGANIC CHEMISTRY (3) Dunlap, Huntsman, Ingham

This course is an effort to rationalize and thereby organize the reactions of organic chemistry through an introduction to the relationships between molecular structure and reactivity. The chemistry of some of the more important classes of organic compounds is considered. Frequent references to the current literature. Prereq., 202.

351. SPECIAL PROBLEMS IN CHEMISTRY (2 or 3) The Staff

Minor research and the development of the investigative procedures in the various branches of chemistry. Laboratory and library work. Maximum credit in course, 6 hrs. Prereq., 24 hrs. with a B average in chemistry. Fee, \$15.

451, 452. SEMINAR IN CHEMISTRY (1, 1) The Staff

Selected topics. Required of all graduate students in chemistry each semester in residence.

481. RESEARCH IN CHEMISTRY (2 to 4) The Staff

Maximum credit in course, 12 hrs. Prereq., 36 hrs. Fee, \$15.

495. THESIS (1 to 4) The Staff

Prereq., permission.

CIVIL ENGINEERING—See Engineering

CLASSICAL LANGUAGES

Professor V. D. Hill

Associate Professor Murphy (chairman)

Two types of courses are included: (1) courses in the Greek and Latin languages in the original; (2) courses requiring no knowledge of the original languages.

The major requirement for Greek or Latin for the A.B. degree is a minimum of 20 hours above courses 1-2 in either subject, exclusive of courses in class (2) above. Majors in Latin should also include Lat. 122 or 333 and 329 or 331. The major requirement in Latin for the B.S. in Education degree is given on page 131.

GREEK

1-2. BEGINNING GREEK (4-4) Hill

An introductory study of the language leading to the reading of classical authors. The Greek element in English and comparisons of ancient and modern Greek.

27. GREEK WORDS IN ENGLISH* (2) Hill

Terms of Greek origin which provide a major part of the technical vocabulary in many cultural and professional fields. Laboratory assignments in the vocabulary of each student's field of interest.

*No knowledge of Greek required.

55, 56. CONTRIBUTIONS OF GREEK CIVILIZATION* (1, 1) The Staff

The contributions of Greece to modern life and to the development of various fields of learning: history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences.

101-102. GREEK PROSE AND POETRY (2 or 3 - 2 or 3) The Staff

Review of language principles. Readings from Homer, Plato, and the New Testament. Prereq., 2.

301. GREEK DRAMA IN ENGLISH* (2) The Staff

The evolution of the theater. Class 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.

309. ADVANCED GREEK READINGS (1 to 3) The Staff

Selections from the poets, dramatists, orators, and philosophers to fit the interests and needs of students. Maximum credit in course, 9 hrs. Offered on demand. Prereq., 12 hrs.

LATIN

1-2. BEGINNING LATIN (4-4) The Staff

Introductory course leading to reading of Latin stories of history and mythology and selections from easier prose literature. The Latin influence on modern language, literature, and culture.

27. ENGLISH WORDS FROM LATIN** (2) Murphy

Vocabulary building through analysis of the dynamic Latin elements in the English language. Individual assignments in the technical language of the student's field of interest; e.g., law, medicine, science, commerce.

101. LATIN REVIEW AND READING (4) Murphy

For those who have had a break of several years in Latin study and need a thorough review. Prose readings with emphasis upon language as a tool of thought. Prereq., 2 or 2 yrs. high school Latin.

102. VERGIL (4) Murphy

Readings from *Aeneid*, Books I-VI. Vergil as a stylist, poet, and philosopher. Prereq., 101 or 3 yrs. high school Latin.

122. WRITING LATIN PROSE (1) Murphy

May well be done in conjunction with 151 or 152.

127. CLASSICAL LATIN PROSE (1 to 3) The Staff

Simpler prose works of classical authors (e.g., Sallust, Nepos, Cicero) chosen according to class needs and interest. An intermediate course affording considerable review. Maximum credit in course, 9 hrs. Prereq., 2 or 2 yrs. high school Latin or permission.

151. FAMILIAR ESSAYS (3) Hill

Cicero's *De Amicitia*, *De Senectute*, *Somnium Scipionis*. Review of essential Latin and study of the literature on friendship. Prereq., 102, 4 yrs. high school Latin, or 3 yrs. and permission.

152. HORACE AND TERENCE (3) Hill

A comedy by Terence and selections from Horace's *Odes* and *Epodes*. Prereq., 102 or 4 yrs. high school Latin or permission.

*No knowledge of Greek required.

**No knowledge of Latin required.

- 265r. THE TEACHING OF FOREIGN LANGUAGES (2) Murphy
 (Same as Ed. 265r). Latin majors, like the group interested primarily in each other language, spend a portion of the period of the course on the special aspects of teaching their major field. Prereq., 102 in any foreign language.
303. PLINY AND MARTIAL (3) The Staff
 Letters and epigrams revealing the human side of Roman life and society from Nero to Trajan. Prereq., 152 or permission.
304. LIVY AND OVID (3) The Staff
 The legendary history of early Rome and mythology in verse. Prereq., 152 or permission.
311. CICERO (LETTERS) AND CATULLUS (POEMS) (1 to 3) The Staff
 Prereq., 152 or permission.
312. LATIN DRAMATISTS (1 to 3) The Staff
 Comedies of Plautus and Terence and tragedies of Seneca. The relation of Roman to Greek drama. Prereq., 152 or permission.
317. VERGIL-LATIN EPIC (3) The Staff
 Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 152 or permission.
318. READINGS IN LATIN LITERATURE (1 to 4) The Staff
 Selections from a wide range of Latin literature according to the needs and interests of students. Maximum credit in course, 10 hrs. Prereq., 152 or permission.
319. ROMAN SATIRE: HORACE AND JUVENAL (3) The Staff
 Prereq., 152 or permission.
324. ROMAN NOVEL (1 to 3) The Staff
 The *Cena Trimalchionis* of Petronius and the Cupid and Psyche story from Apuleius. Prereq., 152 or permission.
327. ROMAN HISTORY IN THE CLASSICAL PERIOD* (1) The Staff
 (Summer session only)
 The historical background of classical Latin literature. Prereq., 6 hrs. or 6 hrs. history and antiquities.
328. ROMAN RELIGION AND MYTHOLOGY* (2) The Staff
 Prereq., 8 hrs., or 8 hrs. history and antiquities, or 8 hrs. English.
329. DEVELOPMENT OF ROMAN CULTURE* (2) The Staff
 Beginning with the archaeological evidence of civilization in Italy, the course traces the various stages in the growth of Roman culture. Prereq., 8 hrs., or 8 hrs. history and antiquities.
331. THE LIFE OF THE ROMANS* (2) The Staff
 The social customs of the Romans: the family, the house, transportation, public amusements, and related features. Illustrations from the archaeological evidence. Prereq., 8 hrs. or 8 hrs. history and antiquities.
333. ADVANCED LATIN SYNTAX (1 to 3) Murphy
 Prereq., 152 or permission.

*No knowledge of Latin required.

340. SPECIAL WORK IN LATIN (1 to 4) The Staff
 Individual work under careful guidance. Maximum credit in course, 8 hrs. Prereq., 152 or permission.

495. THESIS (1 to 6) The Staff
 A thesis may be offered in Latin or in classical languages. Prereq., permission.

DESIGN—See Art

DRAMATIC ART Professors Seigfred, Andersch
 Assistant Professor C. Lane
 Instructors Hahne, Catalano
 Acting Instructor C. L. Lane

10. INTRODUCTION TO THEATRE (2) Lane, The Staff
 A general background course stressing the role of the theatre in our culture and the practical application, interrelationships, and over-all unity of various art forms in play production.

21. ELEMENTS OF STAGE SCENERY (3) Catalano
 Basic technical considerations in producing a play; underlying principles of scenic construction; types and utilization of stage scenery. 1 lec. and 4 lab.

47. THEATRE LABORATORY (1) Catalano
 Participation in costuming, make-up, and technical work coincident with the productions of the University Theatre. Maximum credit in course, 2 hrs.

48. MAKE-UP (1) Hahne
 Theory and practice of make-up.

99-100. MOVEMENT AND PANTOMIME (2-2) Hahne
 Analysis of movement from the viewpoint of dance and drama; body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

105. PLAY PRODUCTION (3) Lane
 A general course in the various aspects of play production including choice of play, casting, direction, and techniques of production. Laboratory experience. Not open to majors in theatre.

107. COSTUMING (4) Andersch
 Study of historical costume. Consideration of the use of color, line and texture in designing, constructing and adapting costumes for the stage. 2 lec. and 4 lab. plus crew work on productions. Prereq., Paint. 28 or with Paint. 28, or permission.

123. ELEMENTS OF STAGE LIGHTING (3) Catalano
 Theory and practice of stage-lighting units, control equipment, and color media, and their application to play production. 1 lec. and 4 lab.

147. THEATRE LABORATORY (1 or 2) Catalano
 Participation in costuming, make-up, and technical work connected with the productions of the University Theatre. Maximum credit in course, 6 hrs. Prereq., permission.

262h. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH

(3) Andersch

(Same as Ed. 262h) Organization of curricular and co-curricular speech and dramatic activities; analysis of available materials; methods of casting, staging, and producing plays; problems in coaching debate and oratory. Prereq., junior standing, major or minor in Dramatic Art and Speech.

299. PRINCIPLES OF ACTING

(3) Hahne

Elementary techniques of stage action and practice in the reading, cutting, and acting of dramatic literature. 1 lec. and 4 lab. Prereq., 99 and Speech 34.

300. ADVANCED ACTING

(3) Lane

Creation of roles in plays of different types, styles, and periods, stressing more difficult characterizations. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec. and 4 lab. Prereq., 299 and permission.

306. ADVANCED STAGECRAFT

(3) Catalano

Theories and problems involved in scenic decor. The results of experimentation with paint and structure on the model set are applied to full-scale scenery. 1 lec. and 4 lab. Prereq., 12 hrs., including 21 and 323.

321, 322. DRAMATIC COMPOSITION

(3, 3) The Staff

Theory of playwriting. Practical experience in the writing and rewriting of plays. Scripts of sufficient merit are produced under the writer's supervision by the University Playshop. Prereq., 6 hrs. and 12 hrs. English and/or journalism.

323. SCENE DESIGN AND PAINTING

(3) Catalano

Theories of the designing and painting of stage settings; effect of stage lighting on scenery and make-up; practical experience. 1 lec. and 4 lab. Prereq., 21, and Paint. 45 or with Paint. 45, or permission.

350-351. PLAY DIRECTION

(3-3) Lane

Preparation of plays for public performance; analysis of the script, methods of casting and rehearsal. Capable students direct one-act plays presented by the University Playshop. 1 lec. and 4 lab. Prereq., 12 hrs., including 300, and permission.

353. MASTERS OF THE THEATRE

(3) Lane

Techniques for the production of historical plays. Preparation of director's manuscript and actual supervision of production. Open only to majors in Dramatic Art. Prereq., 351, F. A. 180, and permission.

355. THEATRE MANAGEMENT

(2) Seigfred

Organization and business management of theatres. Prereq., senior or graduate rank and permission.

425. CONTEMPORARY THEATRE

(3) Lane

A study of the trends of modern world theatre beginning with the contributions of Saxe-Meiningen and the growth of realism. Evaluation of Naturalism, symbolism, expressionism and other forms of experimentation in the theatre. Prereq., 18 hrs., including F. A. 179 or equivalent.

435. ADVANCED LIGHTING

(3) Catalano

Theory and practice of lighting design, history of stage lighting. Advanced technical consideration of instruments, control equipment and color media. Production experience. 2 lec. and 2 lab. Prereq., 21, 123, 323 or with 323 or equivalent.

481. SEMINAR IN DIRECTING OR THEATRE MANAGEMENT (3 or 4) The Staff
 Concentrated study in advanced directing or management. Conferences, independent research or experimentation, and summary reports. Independent research projects must be approved prior to registration. Prereq., 18 hrs. including 351 or equivalent.

491. SEMINAR IN TECHNICAL THEATRE OR COSTUMING (3 or 4) The Staff
 Advanced study in scene design, lighting, scenery construction or costuming. Independent research projects must be arranged with supervising faculty member in advance of registration. Prereq., 18 hrs. including 323 or equivalent.

495. THESIS (1 to 6) The Staff
 Prereq., Permission.

Suggested courses:

See "Radio" and "Speech and Speech Correction" under "Courses of Instruction," F. A. 179-180—History of the Visual Theatre, P. E. 7—Beginning Modern Dance, P. E. 8—Intermediate Modern Dance, P. E. 115-116—Advanced Modern Dance, courses in Design or Painting and Drawing (see Art).

DRAWING—See Art

ECONOMICS

Professors Gubitz, Hellebrandt, Beckert
 Associate Professors Picard (chairman), Levinson
 Assistant Professors Crewson, Davis
 Instructor Olsen

1. THE ECONOMIC DEVELOPMENT OF THE UNITED STATES (3) Crewson

A study of the economic factors in the development of the United States including the historical growth of economic institutions like banking, manufacturing, labor unions, agriculture, etc., from colonial times to the present. Not open to upperclassmen except by special permission.

3. CONTEMPORARY ECONOMIC SOCIETY (3) Beckert, Levinson

The organization, operation, and control of economic society with complementary problems. Not open to upperclassmen except by special permission.

101-102. PRINCIPLES OF ECONOMICS (3-3) The Staff

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture.

305. TRANSPORTATION (2 or 3 as scheduled) Olsen

The social, political, and economic aspects of transportation. The economic characteristics of transportation rates and the machinery developed for their determination and adjustment are emphasized. Prereq., 102.

309. PUBLIC UTILITIES (2 or 3 as scheduled) Levinson

The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization and regulation of public utilities. Prereq., 102.

315. PUBLIC FINANCE (3) Picard

Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determin-

ing level of employment. The economic effects of the various taxes of federal, state, and local governments. Prereq., 102.

320. ORGANIZATION AND STRUCTURE OF INDUSTRY (3) Olsen

Emphasizes the economic characteristics of the principal manufacturing and processing enterprises, but also considers their historic development, financial organization, and legal aspects. Prereq., 102.

329. COMPARATIVE ECONOMIC SYSTEMS (2 or 3 as scheduled) Crewson

Historical development of various types of suggested economic reforms. Growth and analysis of communism, socialism, facism, and modified capitalism. The economic thought of Marx, Sismondi, G. B. Shaw, H. G. Wells, St. Simon, and others. Prereq., 102.

330. DEVELOPMENT OF ECONOMIC THOUGHT

(2 or 3 as scheduled) Hellebrandt, Picard

The historical evolution of the major economic doctrines; mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall and the neo-classicists. Prereq., 102.

332. MODERN ECONOMIC THOUGHT (2 or 3 as scheduled) Picard

A critical analysis of the newer type of economics as presented by John Maynard Keynes. Prereq., 102.

333. ECONOMIC THEORY (2 or 3 as scheduled) Picard

Analysis of problems facing the firm in determining price. Also the effects on the economy emanating from such pricing policies. Part of the semester is devoted to national income analysis. Prereq., 102.

335. LABOR ECONOMICS (3) Levinson

Survey of the economic forces generating modern labor problems. Among the topics considered are: history of the labor movement, labor in politics, labor-management relations, wages, and full employment. Prereq., 102.

338. LABOR LEGISLATION (2) Levinson

Survey of the law bearing upon labor problems. Among the topics considered are: labor-relations legislation, old-age and unemployment insurance, workmen's compensation, and wages-and-hours legislation. Prereq., 102.

342. INTERNATIONAL ECONOMICS (2 or 3 as scheduled) Crewson

Analysis of economic relations among nations of the world. Topics studied include economic effects of exchange control, tariffs, international agreements, resources, cartels, United Nations organizations, and World Trade organizations. Prereq., 102.

381. RESEARCH IN ECONOMICS (2 to 8) The Staff

Prereq., 15 hrs. and permission.

391. SEMINAR IN ECONOMICS (2 to 4) The Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs. and permission.

495. THESIS (1 to 6) The Staff

Prereq., permission.

Additional courses:

Mgt. 301-302—Production Management

Mgt. 312—Administration of Personnel

Mgt. 325—Industrial Relations

Stat. 341—Business Cycles

EDUCATION

Professors Morton, Hansen,
Benz, Shoemaker, G. E. Hill
Associate Professors Dixon, Quick
Assistant Professors Dunham, Olson, DeLand, Eisen
Nelson, Ward, Wilson, Starks, C. H. Roberts,
McKelvey, Lynn, Crowell, Felsing, N. E. Dilley
Instructors Read, Ullmann, Shrigley

ELEMENTARY EDUCATION

3. INTRODUCTION TO EDUCATION (2) Hansen, Lynn, Shoemaker
An explanatory and orientation experience in the development of American public education, with emphasis upon teaching as a career.

101. MATERIALS AND METHODS IN KINDERGARTEN-
PRIMARY EDUCATION (2) Wilson
A study of work and play activities of early childhood; and the development, use, and care of materials best suited to this age group. Fee, \$2.

102. LITERATURE FOR CHILDREN (3) Quick, Hansen
A study of literature for children and its part in the reading program of the elementary school.

103. STUDIES OF CHILDREN (3) Quick, Starks, Wilson
This course consists of material to help teachers understand children by a study of the growth sequence from birth through adolescence; the influences affecting growth; methods and techniques of studying children; some explanatory principles of behavior.

109. CONFERENCE IN ELEMENTARY EDUCATION (1) The Staff
A workshop for teachers organized about a general theme with opportunity for exploration of personal problems. Programs combine work group sessions with general meetings related to the general theme. Fee, \$6.

125. THE PURPOSES AND PRACTICES OF EDUCATION (3 or 4) The Staff
An introductory survey of the American public school system at all grade levels; objectives, curricular problems, guidance, organization, and administration as they affect the teacher. Not open to students who have had 130. Prereq., second semester sophomore standing. Offered by correspondence only.

160c. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS (2 or 3) Leonard
(Same as Design 160c) Prereq., Design 3.

163b. TEACHING OF READING AND LANGUAGE (3) Hansen, Starks
A practical course covering the language arts program in the elementary school. Methods and materials valuable in promoting child development in reading and the expressional phases of language are given major emphasis.

163j. TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL (3) Morton
Criteria for determining the arithmetic program; a grade-by-grade development of topics and of methods of presentation.

- 169f. TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE
ELEMENTARY SCHOOL (3) Felsing
Materials and methods used in teaching the content subjects in the elementary schools, with special emphasis upon human and natural resources and relationships. With Ed. 272, or permission.
210. STUDENT TEACHING LABORATORY (4) Dunham, Dilley
A laboratory study approach to the generalizations and principles in classroom administration and pupil adjustment. The course is taken concurrently with courses in elementary teaching techniques, and with first experiences in classroom teaching. Prereq., with 272. Fee, \$4.
211. THE CHILD AND THE CURRICULUM (3) Felsing, Dilley
A study of the content of the elementary school curriculum. Emphasis is placed upon the service role of the curriculum to children and society. Prereq., senior rank, Ed. 272, and with Ed. 277.
212. SENIOR CONFERENCE IN ELEMENTARY EDUCATION (2) The Staff
An integrating course designed to complete the elementary school teacher's professional preparation. Concepts developed throughout the undergraduate program will be examined in the light of current educational thought and practice. Prereq., senior rank.
- 263s. TEACHING OF ARITHMETIC IN THE 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 and a liberal education.
- 266e. TEACHING OF MUSIC IN ELEMENTARY
GRADES (2) Blayney, Morley
(Same as Mus. 266e) Prereq., Mus. 72.
272. STUDENT TEACHING IN ELEMENTARY GRADES
(5 to 7) Dunham and Supervising Critics
Prereq., with 210, and 169f. Fee, \$14.
274. STUDENT TEACHING (3 or 4) Dunham, Roberts
For those students who, because of experience and previous college training, need fewer credits in this area. Prereq., by permission only. Fee, \$8.
277. FIELD EXPERIENCE IN STUDENT TEACHING (1 to 3) Dilley, Roberts, and Staff
A one to three-week teaching experience in a public school. With administrative approval, arrangements are made by the student with a school of his choice. Prereq., 272 and with 211 for elementary majors; by permission, for secondary majors.
309. WORKSHOP IN ELEMENTARY EDUCATION (2 to 6) The Staff
A service course to help teachers solve the problems they are facing in the classroom. Workshop method of teaching and learning will be used. Prereq., 9 hrs. and permission.
311. PROBLEMS IN ELEMENTARY TEACHING PRACTICES (3) The Staff
Open only to students with the bachelor's degree who are preparing for elementary certification, and who have no student teaching credit. To be given only in connection with the supervision of the student's on-the-job teaching experience. Maximum credit in course, 6 hrs. Prereq., permission.

403. ADVANCED STUDIES OF CHILDREN (3) Quick

An intensive study of certain basic research in child development and its implications for education. Prereq., 15 hrs. education or psychology, or permission.

For other courses designed primarily for kindergarten and elementary teachers, see H. Ec. 155; Ind. A. 115; Mus. 71, 72, 266e; P. E. 267p; and Design 3, 160c.

411. PROBLEMS IN THE ELEMENTARY CURRICULUM (3) Quick

A critical study of the basic issues and theories underlying curriculum development. Prereq., permission.

412. SEMINAR IN ELEMENTARY EDUCATION (2 to 4) Dilley

A course designed for teachers and administrators who wish to extend their professional preparation through individual research, group study and planning in the areas of elementary education. Maximum credit in a semester, 2 hrs. Prereq., permission.

GUIDANCE AND COUNSELING

360. GUIDANCE PRINCIPLES (3) Hill

The need for guidance in the schools. The nature of guidance. The major services, their operation, organization, and evaluation. Prereq., 6 hrs. education and Psych. 5.

361. GUIDANCE PRACTICE (1 to 3) Hill and Staff

Directed practice in counseling and other personnel services in co-operating schools, to develop greater familiarity and skill in some of the commoner guidance services. Prereq., 360, and permission.

362. INFORMATION SERVICE IN GUIDANCE (2) Hill

The collection, evaluation, and use of occupational, educational, and related information in the school guidance program. Prereq., 360.

460. SEMINAR IN GUIDANCE (2) Hill and Staff

Advanced study of special problems in guidance. Prereq., 360, 361 (or equivalent).

461. WORKSHOP IN GUIDANCE (Summer Session and Extension only)
(1 to 3) Hill and Staff

A concentrated study program for school workers with special attention to guidance problems in the participant's school. Prereq., 360 or equivalent, and permission. (Offered only by special arrangement in some summer sessions and in extension.)

462. FIELD EXPERIENCE IN GUIDANCE (2) Hill and Staff

Supervised field work in schools in some guidance service. Periodic campus conferences and visitation conferences in the schools are required. Prereq., 361 and permission.

Related graduate courses: Ed. 381—Educational Statistics (3); Ed. 385—Educational Measurements (3); Psych. 303—Mental Measurements (3); Psych. 316—Psychology of Individual Differences (2); Psych. 320—Personnel and Vocational Counseling (2); Psych. 337—Counseling and Psychotherapy (3); H.R. 303-304—Human Relations (6); H.R. 493, 494—Seminar in Student Personnel Administration (6).

HISTORY AND PHILOSOPHY

350. THE HISTORY OF EDUCATION (3) Shoemaker

Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 3 hrs. education and Psych. 5.

351. THE SCHOOL IN THE SOCIAL ORDER (3) Shoemaker
Education in the United States from the colonial period to the present. The social, political, economic, religious, and philosophical foundations which have conditioned the evolution of the public schools. Prereq., 3 hrs. education and Psych. 5.
352. COMPARATIVE EDUCATION (3) Shoemaker
A study of the educational systems of various countries and the extent to which they meet the needs of the people. Prereq., 6 hrs. education or history or government, and permission.
353. THE EVOLUTION OF EDUCATIONAL THOUGHT (3) Shoemaker
Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbart, and Dewey. Prereq., 6 hrs. education and Psych. 5.
354. PHILOSOPHY OF EDUCATION (3) Shoemaker
A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 9 hrs. education.
355. SOCIAL FOUNDATIONS OF EDUCATION (3) Shoemaker
This course aims to show the interactions between the school and the social order in which it exists. The role of the school will be studied in various types of contemporary societies. Prereq., 9 hrs. education.
358. WORKSHOP IN ECONOMIC EDUCATION (3) The Staff
(Summer Session and Extension only)
A study of basic economic concepts and practical economic problems with the view to their integration into the school curriculum. Prereq., permission.
450. HIGHER EDUCATION (2) The Staff
Designed to give the student a survey of the background and growth of higher education in the United States. Present status of various types of institutions will be studied. Prereq., permission.

LIBRARY SCIENCE

(See Library Science)

RESEARCH AND SCIENTIFIC TECHNIQUES

241. AUDIO-VISUAL TEACHING AIDS (2) Hansen
Sources, selection, and use of audio-visual aids to instruction; their integration in the school program; selection, operation, and maintenance of equipment.
381. 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. Prereq., 6 hrs. education and Psych. 5.
382. 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., 381.

385. EDUCATIONAL MEASUREMENTS (3) Morton, Hill
The improvement of the essay examination; criteria for evaluating tests; teacher-made objective tests; standardized tests; elementary statistical procedures. Prereq., 6 hrs. education and Psych. 5.

388. CONSERVATION EDUCATION WORKSHOP (Summer Session only)
(3 to 5) The Staff
A field course designed primarily for teachers in service. Relationships between conservation and the natural sciences primarily for the elementary and junior high school teacher. Fee, \$6. per credit hour, plus board and room. Approval of adviser.

389. WORKSHOP IN THE TEACHING AND SUPERVISION
OF ARITHMETIC (1 to 3) Morton
A summary of research, the implications of educational psychology and a survey of current trends in the teaching and supervision of arithmetic. Prereq., 9 hrs. education, including a course in the teaching of arithmetic, and Psych. 5.

483. RESEARCH IN EDUCATIONAL STATISTICS (2 to 6) Morton
An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 382 and permission.

484. RESEARCH IN EDUCATION (1 to 6) The Staff
Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5, and permission.

488. INTRODUCTION TO GRADUATE STUDY (3) Hill
Methods of research in education, the selection, planning and evaluation of research problems. The history and purposes of graduate education. Required of all graduate students in education. Prereq., open to all graduate majors and minors in education and to others by permission.

495. THESIS (1 to 6) The Staff
Prereq., permission.

SECONDARY EDUCATION

130. SECONDARY EDUCATION (4) The Staff
The purposes and problems of secondary education, curricular content and organization, guidance, evaluation, administration and organization as they affect the high school teacher. Prereq., second semester sophomore.

228. PRINCIPLES OF TEACHING (3) The Staff
Basic principles of learning and teaching, improving classroom procedure, selecting teaching-learning experiences, and measuring the effectiveness of teaching. Prereq., 130, with 280, and Psych. 5.

TEACHING TECHNIQUES*

260h. TEACHING OF ART (3) Way
(Same as Design 260h)

260m. TEACHING OF INDUSTRIAL ARTS (3) Calvin
(Same as Ind. A. 260m)

*For course descriptions see departmental listings.

- 261b. TEACHING OF BOOKKEEPING (2) Beckert
(Same as Acct. 261b)
- 261st. TEACHING OF SECRETARIAL SKILLS (3) Appel
(Same as Sec. St. 261st.)
- 262h. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH (3) Andersch
(Same as Dram. A. 262h)
- 262s. SPEECH AND HEARING THERAPY IN THE PUBLIC SCHOOLS (2) Andersch
(Same as Speech 262s.)
- 264e. TEACHING OF ENGLISH (3) Wray
(Same as Eng. 264e)
- 265r. TEACHING OF FOREIGN LANGUAGES (2) Murphy
(Same as Fr., Ger., Lat., and Sp. 265r) A study of the aims and methods of teaching foreign languages, developed against a background of general linguistics, with attention to the student's special language interest. Prereq., two college years of one foreign language.
- 266f. SUPERVISION OF MUSIC IN THE ELEMENTARY SCHOOL (3) Blayney
(Same as Mus. 266f)
- 266j. MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL (3) Glenn
(Same as Mus. 266j)
- 266p. TEACHING OF CLASS PIANO (1) Blayney
(Same as Mus. 266p)
- 267a. COACHING METHODS (2) Hatcher, LaTourrette
(Same as P. E. 267a)
- 267b. COACHING METHODS (2) LaTourrette
(Same as P. E. 267b)
- 267e, 267f. ATHLETIC COACHING (1 to 3), (1 to 3) Widdoes and Staff
(Same as P. E. 267e and 267f) (e—basketball, baseball; f—football, track)
- 267h. TEACHING OF HEALTH (3) Trepp
(Same as P. E. 267h)
- 267n, 267o. TEACHING OF RHYTHMIC ACTIVITIES (1, 1) Hatcher, Joyce
(Same as P. E. 267n and 267o)
- 267p. TEACHING OF PHYSICAL EDUCATION (1) Brookey
(Same as P. E. 267p)
- 267s. TEACHING OF SWIMMING (2) Manuel, Thomas
(Same as P. E. 267s)
- 268a. TEACHING OF AGRICULTURE (3) DeVeau
(Same as Agr. 268a)
- 268b. TEACHING OF BIOLOGICAL SCIENCES (2) Stehr, Wallace
(Same as Biol. 268b)
- 268h. TEACHING OF HOME ECONOMICS (3) Patterson
(Same as Home Ec. 268h)

- 268m. TEACHING OF MATHEMATICS (2 or 3) Denbow
(Same as Math. 268m)
- 268s. TEACHING OF PHYSICAL SCIENCES (2) Pierce
(Same as Chem. 268s and Phys. 268s)
- 269h. TEACHING OF SOCIAL STUDIES IN JUNIOR AND SENIOR HIGH SCHOOLS (2) Roberts
(Same as Hist. 269h)
270. SENIOR CONFERENCE (2) The Staff
An integrating seminar to give professional focus to the total undergraduate program; the professional problems of the teacher. Prereq., senior rank, student teaching or permission.
277. FIELD EXPERIENCE IN STUDENT TEACHING (1 to 3) Dilley, Roberts and Staff
For description of course see "Elementary Education" on page 208.
280. OBSERVATION AND PARTICIPATION IN HIGH SCHOOL (3) Roberts
Prereq., 130, junior rank, with 228.
281. OBSERVATION AND STUDENT TEACHING IN HIGH SCHOOL (3 to 7) Roberts
Prereq., 130 and senior rank, or permission. Fee, \$8.
283. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music and Physical Education in the Elementary School (2) Roberts and Departmental Supervisors
Prereq., 280 or with 280, and senior rank. Fee, \$4.
284. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music and Physical Education in the High School (2) Roberts and Departmental Supervisors
Prereq., 280 or with 280 and senior rank. Fee, \$4.
285. STUDENT TEACHING IN SPECIAL SUBJECTS: Agriculture, Commerce, Home Economics and Industrial Arts in High School (4) Roberts and Departmental Supervisors
Prereq., 280 or with 280 and senior rank. Fee, \$8.
286. STUDENT TEACHING IN SPEECH CORRECTION (3) Roberts and Departmental Supervisors
Prereq., 130 and Speech 307. Fee, \$6.
374. THE IMPROVEMENT OF READING IN SECONDARY SCHOOLS (2) Hansen, Felsing
The extension of the reading program beyond the elementary school; the teaching of reading as a developmental process. Prereq., 9 hrs. education and Psych. 5.
428. ADVANCED PRINCIPLES OF TEACHING (3) Hill
A critical appraisal of teaching in the light of available research on learning and teaching. Prereq., 228 (or equivalent) and Psych. 5.
470. SEMINAR IN SECONDARY EDUCATION (2 to 4) The Staff
A course designed for teachers and administrators who wish to extend their professional preparation through individual research, group study and planning in the areas of secondary education. Maximum credit in a semester, 2 hrs. Prereq., permission.

SCHOOL ADMINISTRATION AND SUPERVISION

332. THE HIGH SCHOOL CURRICULUM (2 or 3) Roberts
The high school program of studies, contributions of various subjects, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education, including 130.
340. SCHOOL PUBLIC RELATIONS (2) McKelvey
The function of public relations in school administration in (1) public understanding of the school's work, (2) development of the media for effective communication, (3) furthering lay participation in determination of school policy. Prereq., 6 hrs. education and Psych. 5.
410. ADMINISTRATION OF THE ELEMENTARY SCHOOL (2) Crowell
The responsibilities of both teachers and principal in democratic administration in such areas as curriculum construction, supervision, plant management, public relations. Practical problems used as a basis of study. Prereq., 6 hrs. education, including 440.
430. HIGH SCHOOL ADMINISTRATION (2) McKelvey, Lynn
The program of studies, the program for health, vocational education, guidance, extracurricular activities, provisions for individual differences, the selection and assignment of teachers, and the school schedule. Prereq., 6 hrs. education, including 440.
440. LOCAL SCHOOL ADMINISTRATION (3) McKelvey, Crowell
Emphasis upon local and community school administration, including the administrative process, democratic school administration, the role of leadership, structural organization of schools, the board of education and the superintendency. Prereq., 6 hrs. education.
441. STATE AND NATIONAL SCHOOL ADMINISTRATION (3) McKelvey, Crowell
Emphasis upon state and national school administration, including the state program of education, state responsibility, educational organization, certification and tenure, national educational services, federal relations to education and national problems in education. Prereq., 440.
442. SCHOOL FINANCE AND BUSINESS ADMINISTRATION (2) McKelvey
Local, state and federal finance, with problems in the financing of schools; business management in such areas as the school budget, financial reports, school purchasing, transportation and insurance. Prereq., 6 hrs. education, including 440.
443. SCHOOL LAW (2) McKelvey, Crowell
The constitutional basis for education, schools and their legal setting, school legislation and court decisions, with special reference to Ohio school law. Prereq., 440.
444. HUMAN PROBLEMS IN SCHOOL ADMINISTRATION (3) Benz
A course dealing with problems of human relations in school administration. Prereq., 9 hrs. education, including 440, and permission. Fee, \$5.
445. SCHOOL BUILDING PLANNING (2) McKelvey, Crowell
The planning of new school buildings and sites, plant evaluation, rehabilitation, maintenance problems, and school equipment. Prereq., 440.
446. SUPERVISION OF INSTRUCTION (2 to 6) The Staff
The principles underlying democratic supervision and techniques which promote the growth of teachers in service. Laboratory experiences in analysis of teaching situations. Prereq., 410 and 211, or 332 and 430.

472. LABORATORY SCHOOL PROBLEMS (2) The Staff

For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Prereq., 6 hrs. education, Psych. 5, and permission.

473. SUPERVISION OF STUDENT TEACHING (2 to 6) The Staff

Designed to prepare students for the work of the supervising teacher in a college or university. Major emphasis will be upon directing student teachers in learning to teach children. Prereq., permission.

SPECIAL EDUCATION

Students desiring the state certificate to qualify as teachers of special education classes should consult Mrs. DeLand regarding courses in sociology, psychology, and zoology which are required along with the courses listed below.

222. DIAGNOSTIC 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 exceptional children.

223. CURRICULUM FOR SPECIAL CLASSES (3) DeLand

Types of curricula for special classes. Units of work, materials and subject matter suited to the mental ability and level of exceptional children.

321. ORGANIZATION OF SPECIAL CLASSES FOR HANDICAPPED CHILDREN (2) DeLand

Types of classes organized, as sight saving, hard of hearing, speech, and mentally retarded. Selection and classification of children, cooperation with other departments, individual case studies and record taking, and follow-up of special class children.

325. PROBLEMS IN SPECIAL EDUCATION—THE SLOW LEARNER (2 to 6) DeLand

Designed for the regular classroom teacher in elementary and secondary education who might have retarded or slow learners in with average and rapid learners. How to locate their needs and what to do about them.

ELECTRICAL ENGINEERING—See Engineering

ENGINEERING

Dean E. J. Taylor

Professors Green, Gaylord, Black

Associate Professors McClure, Clark, N. D. Thomas, Lausche

Assistant Professors Nellis, Quisenberry, Selleck, Wickham,

Ali, Badger, Hicks, Hoffee

Visiting Assistant Professor Reinath

Instructor Russ

ENGINEERING

1. ENGINEERING ORIENTATION (1) Taylor
Fee, \$1.

381. RESEARCH (1 to 6) The Staff
Prereq., approval by chairman of department in which work is performed. Fee, \$5.
390. SPECIAL INVESTIGATIONS IN ENGINEERING (1 to 3) The Staff
Individual work or work in small groups, under guidance, in research or advanced study in a particular field of engineering. Maximum credit in course, 6 hrs. Prereq., approval by chairman of department in which work is performed.
391. SEMINAR (1 to 3) The Staff
Prereq., approval by chairman of department in which work is performed.
495. THESIS (1 to 6) The Staff
Prereq., approval by chairman of department in which work is performed.

ENGINEERING DRAWING

(Mr. Thomas, chairman)

- 1-2. ENGINEERING DRAWING (2-2) Thomas, Nellis, Wickham
Freehand lettering, use of instruments, geometric constructions, freehand drafting, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawing. Intersections, developments, tracings and blue prints. Working drawings made from actual machine parts are dimensioned in the accepted American Standard method. 6 lab. Fee, \$1 a semester.
3. THE SLIDE RULE (1) Thomas, Nellis
Prereq., Math. 5.
15. INDUSTRIAL ARTS DRAWING (3) Wickham
Pictorial methods, working drawings, gears, cams, screws, fastenings, architectural drawings, delineation, perspective, mechanical lettering, related information and special instruments of interest to teachers of mechanical drawing. 9 lab. Prereq., 1.
25. DRAFTING CALCULATIONS (5) Thomas
Computation methods used and needed by draftsmen. Credit is not counted toward a bachelor's degree. 5 lec. Prereq., Math. 1.
101. DESCRIPTIVE GEOMETRY (3) Thomas, Nellis, Wickham
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. Fee, \$1.
102. DESCRIPTIVE GEOMETRY (2) Thomas
Practical applications of the representation, intersection and development of plane surfaces. Double curved surfaces as used in ship, automobile and aircraft construction are included. Daily exercise sheets. 1 lec. and 2 lab. Prereq., 101.
- 115-116. MACHINE DRAFTING (3-3) Nellis, Wickham
Standard and basic representations as applied to commercial drafting and their application to detail and assembly drawings. 6 lab. Prereq., 2.
125. BLUE PRINT READING (2) Nellis, Wickham
A study of the techniques of drawing as applied to commercial drafting in the various fields of industry. 1 lec. and 2 lab. Prereq., 2.

CIVIL ENGINEERING
(Mr. Gaylord, chairman)

10. PLANE SURVEYING (3) Clark, Ali
Basic theory underlying field measurements for engineering work. The theory is supplemented by field work in which the student gains proficiency in the use of surveying instruments. 2 lec. and 3 lab. Prereq., Math 5. Fee, \$5.
120. APPLIED MECHANICS (3) Badger, Ali, Russ
Laws of equilibrium of forces; friction; centroids and moment of inertia. Prereq., Math. 102 or with Math. 102.
121. APPLIED MECHANICS (3) Badger, Ali
Motion of a particle and of rigid bodies. Work and energy; impulse and momentum. Prereq., 120.
211. 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., 10. Fee, \$3.
212. ROUTE SURVEYING (2) Clark
Field application of the principles of route engineering. A transportation route center line is laid out and profile and cross-sections taken. Computation of areas, cut and fill; cost estimate. 6 lab. Prereq., with 260. Fee, \$3.
222. STRENGTH OF MATERIALS (4) Badger, Russ
Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. 3 lec. and 2 lab. Prereq., 120. Fee, \$3.
224. FLUID MECHANICS (3) Russ
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. Prereq., 121, or with 121.
225. SOIL MECHANICS (3) Ali
Theories of earth pressure and bearing capacities, with application to the design of earth structures. 2 lec. and 2 lab. Prereq., 222 or with 222. Fee, \$3.
230. STRUCTURAL ANALYSIS I (4) Gaylord
Application of the laws of static equilibrium to the analysis of forces in component parts of engineering structures. Prereq., 120.
231. STRUCTURAL DESIGN I (4) Gaylord
A study of the design of structural members in steel and other metals. Prereq., 222 and 230.
232. STRUCTURAL DESIGN II (4) Gaylord
A study of the design of reinforced concrete members and structures. Prereq., 222 and 230.
240. HYDRAULICS LABORATORY (1) Russ
Experimental study of orifices, weirs, flow in pipes and channels; hydraulic jump; turbines; pumps. 2 lab. Prereq., 224 or with 224. Fee, \$2.

241. **HYDROLOGY** (3) Ali
 A study of precipitation data, relationships between rainfall and runoff, with applications to irrigation, flood control, erosion control, and municipal and industrial water supply. Prereq., 224.
250. **SANITARY ENGINEERING** (4) Clark
 Sources, treatment, and delivery of pure water; collection, treatment, and disposal of water wastes. Theory of design, construction, and estimation of various types of water works and sewage disposal plants. Prereq., 224.
260. **ROUTE ENGINEERING** (3) Clark
 Theory of simple and compound curves, spiral easements, vertical curves, earthwork quantities, construction methods and tracks as applied to transportation routes. Prereq., 10.
261. **HIGHWAY ENGINEERING** (2) Clark
 Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 260.
270. **ENGINEERING ECONOMY** (3) Gaylord
 Economy studies for proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works.
313. **ADVANCED SURVEYING PROBLEMS** (2) Clark
 Principles and practices in calculations for azimuth, latitude, and longitude by observations on Polaris and the sun with the transit. Land surveying problems, contour lines, use of the plane table. 1 lec. and 3 lab. Prereq., 211. Fee, \$2.
314. **PHOTOGRAMMETRY** (3) Ali
 Equipment and methods used in aerial photography. Use of map-making equipment and study of specialized equipment used by private aerial survey organizations and government agencies. 2 lec. and 4 lab. Prereq., 211. Fee, \$3.
326. **ADVANCED STRENGTH OF MATERIALS** (3) The Staff
 Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 222 and Math. 315.
327. **MECHANICAL VIBRATIONS** (3) The Staff
 Harmonic and non-harmonic vibrations of systems of one degree of freedom; systems of several degrees of freedom; vibration of elastic bodies. Prereq., 121, 222 and Math. 315.
328. **AERODYNAMICS** (3) The Staff
 Aerodynamic characteristics of airfoils and factors affecting stability and control. Performance calculations. Prereq., 121 and Math. 315.
330. **STRUCTURAL ANALYSIS II** (4) Gaylord
 Theory of analysis of structures for which the conditions of static equilibrium are not sufficient to obtain a solution. Prereq., 222 and 230.
 For other advanced courses in Civil Engineering, see page 215 under "Engineering."

ELECTRICAL ENGINEERING

(Mr. Green, chairman)

101. FUNDAMENTALS OF ELECTRICAL CIRCUITS—Radio I (3) Hoffee
Elementary circuit theory, direct and alternating current, resonance, electron tubes. 2 lec. and 2 lab. Prereq., Math. 5. Fee, \$5.
102. FUNDAMENTALS OF RADIO—Radio II (3) Hoffee
Amplification, oscillation, modulation, detection, antennae, receivers, transmitters. 2 lec. and 2 lab. Prereq., 101. Fee, \$5.
- 201-202. CIRCUITS AND MACHINERY (3-3) Quisenberry
Direct and alternating current circuit studies, theory and operation of direct and alternating current machinery. For non-electrical students. Prereq., Math. 102 and Phys. 113-114. Fee, \$5 a semester.
- 211-212. ELECTRICAL ENGINEERING (4-4) 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. 102, Phys. 114, and with 215-216.
- 213-214. DYNAMO AND MEASUREMENTS LABORATORY (3-3) Quisenberry
Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Prereq., with 211-212. Fee, \$5 a semester.
- 215-216. ELECTRICAL MEASUREMENTS THEORY (2-2) 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 211-212.
- 301-302. COMMUNICATION ENGINEERING (4-4) 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, amplifiers, modulators, radiation and applications to radio and telephone apparatus. 3 lec. and 2 lab. Prereq., 212 or 202. Fee, \$5 a semester.
- 303-304. ELECTRICAL ENGINEERING (4-4) Selleck
Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and induction motors, advanced circuit analysis. Prereq., 212 and 214.
- 305-306. ELECTRICAL ENGINEERING LABORATORY (2-2) Selleck
Measurement and predetermination of characteristics of A. C. machinery. 4 lab. Prereq., with 303-304. Fee, \$5 a semester.
- 307-308. ENGINEERING ELECTRONICS (3-3) Green
A comprehensive theoretical and practical treatment of the fundamentals of electronics and the general properties of electron tubes with application to engineering. 2 lec. and 2 lab. Prereq., Math. 102 and Phys. 114. Fee, \$5 a semester.
- 321-322. HIGH FREQUENCY CIRCUITS AND ELECTRO MAGNETIC RADIATION (3-3) Green
Application of electronic and communication principles to high frequency circuits and a study of electro magnetic radiation and antennae. Prereq., 212 or 202. Fee, \$5 a semester.

323, 324. **ADVANCED RADIO LABORATORY** (1 to 4, 1 to 4) Green
Special problems of current interest in the field of radio engineering. 2-8 lab. Prereq., 102 or 301. Fee, \$5 a semester.

325. **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. 2 lec. and 2 lab. Prereq., Math. 102 and Phys. 113, 114. Fee, \$5.

328. **ILLUMINATING ENGINEERING** (3) The Staff

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. 2 lec. and 2 lab. Prereq., Math. 102 and Phys. 114. Fee, \$5.

331. **SERVOMECHANISMS** (3) Quisenberry

Automatic controller design, including the study of viscous output damping, error rate damping, integral control, error rate stabilization networks and transfer functions. Prereq., 212 or 202, Math. 315.

332. **CONTROL OF ELECTRICAL MACHINERY** (3) Selleck

Magnetic and electronic motor controllers, including a study of control theory and applications to given problems. Prereq., 201 or 303.

341. **ELECTRICAL TRANSMISSION OF POWER** (3) Selleck

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., 212 or 202.

342. **SYMMETRICAL COMPONENTS** (3) Quisenberry

Circuits analysis by symmetrical components. Representation of unbalanced polyphase currents and voltages by component symmetrical sets; solution of faults on power systems. Prereq., 212 or 202.

344. **ELECTRICAL DESIGN** (3) Selleck

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., 303.

345-346. **PROBLEMS IN ADVANCED A. C. MACHINERY** (3-3) The Staff

Problems taken up deal with transient conditions in alternators, motors, and transformers. Applications of the methods of symmetrical components to unbalanced operating conditions. 2 lec. and 2 lab. Prereq., 304 and 306. Fee, \$3 a semester.

401. **ELECTRICAL STATION DESIGN** (3) Quisenberry

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. Prereq., 304.

For other advanced courses in Electrical Engineering, see page 215 under "Engineering."

MECHANICAL ENGINEERING

(Mr. Black, chairman)

113. METAL PROCESSING (2) Reinath
Metallic surface generating and finishing methods, punches and dies, tolerance and fits, dimensional control and gauging. Prereq., Ind. A. 13 and 14.
201. KINEMATICS (3) Black
A study of basic mechanisms including analytical and graphical analyses of linkages, cams, gears, and gear production methods. Prereq., C.E. 120.
211. ENGINEERING METALLURGY (3) Taylor
An introductory course for engineers. It includes a survey of the art of abstracting metals from their ores and adapting them for use. 2 lec. and 2 lab. Prereq., Chem. 4, Phys. 113 and/or with C. E. 222. Fee, \$3.
221. THERMODYNAMICS I (3) Hicks
Energy, heat and work, cycles, reversibility, availability, first and second laws, entropy, real and perfect gases. Laboratory work on application, calibration of gauges, manometers, indicators, tachometers and other instruments. Prereq., Math. 102 and Phys. 113.
222. THERMODYNAMICS II (3) Hicks
Fluid flow, gas mixtures, combustion calculations, power cycles and fundamentals of refrigeration. Laboratory work on flow meters, calorimetry, fuel and gas analysis and testing of steam-power units. Prereq., 221.
227. STEAM POWER PLANTS (3) Lausche
Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, pre-heaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, steam engines and turbines, and condensers. Prereq., 221 and Math. 102.
229. STEAM POWER LABORATORY (2) Hicks
Testing of engines, turbines, pumps and steam generators. Prereq., 222. Fee, \$4.
302. DYNAMICS OF MACHINERY (3) Black
Analytical and graphical studies of velocities and accelerations, and of static and inertia forces in machinery; engine force analysis and balancing of machinery. Prereq., 201 and/or with C.E. 121.
303. MACHINE DESIGN I (3) Black
Application of mechanics, mechanism, materials, and mechanical processes to the design and selection of machine members and units of power transmission. Prereq., 113, 201, 211, C. E. 222, Ind. A. 13 and 14.
304. MACHINE DESIGN II (3) Black
Application of the work covered in 303 to the design of complete machines and sub-assemblies. 6 lab. Prereq., 303 or with 303.
311. AIR CONDITIONING AND REFRIGERATION (3) Reinath
Heating, cooling, humidifying and decontamination of air for domestic and commercial purposes, and refrigeration and heating practice. Prereq., 222.

312. INTERNAL COMBUSTION ENGINES (4) Reinath
 Analysis and testing of spark-ignition and compression-ignition engines including combustion, thermodynamics, carburetion, detonation, fuels and fuel injection. 3 lec. and 2 lab. Prereq., 222, or 221 and permission, Fee, \$3.

314. HEAT TRANSFER (3) Hicks
 Basic concepts of conduction, convection and radiation; steady and unsteady states, film coefficients and dimensional analysis. Prereq., 222. Fee, \$1.

392. ADVANCED MACHINE DESIGN (3) Black
 Advanced problems in the design and analysis of machine members including consideration of stress propagation; stress analysis; fatigue and creep; mechanical vibration; Coriolis' acceleration; Castigliano's theorem; and graphical analysis. Prereq., with 303 or permission.

393. LUBRICATION AND FRICTION (3) Black
 Derivation of Reynold's equation and its application to bearings and gear teeth; load capacity and thermal equilibrium. Boundary lubrication, lubricant composition, surface finish, bearing materials and bearing performance. Prereq., Math. 315, C.E. 121 and permission.

For other advanced courses in Mechanical Engineering, see page 215 under "Engineering."

ENGINEERING DRAWING—See Engineering

ENGLISH

Professors Mackinnon, Wray, Foster
 Heidler, Peckham, Hodnett (chairman)
 Associate Professors McQuiston, Lash,
 Kendall, Kirchner, Thompson

Instructors Austin, Brown, Butterworth, Culbert, Hand, Kasten, Knecht,
 Knowles, Legler, Paton, Pickard, Roe, B. B. Wood, C. G. Wood

The major requirement in English for the A.B. degree consists of a minimum of 24 hours beyond 3-4 distributed as follows: (a) 101, 102; (b) 323, 324; and (c) at least twelve hours so chosen that three of the following four groups of 300 courses are represented: (1) 311, 312; (2) 321, 322, 331, 372 (if six hours are chosen from group (2), 372 shall be included); (3) 332, 341, 342; (4) 351, 352, 353. Students who write well may secure permission to vary these requirements in order to pursue an English major in creative writing. The student preparing to teach English must complete English 264e.

A limited number of English majors may before April 15 of their junior year submit to the chairman of the department a written request to follow the honors program during their senior year. In addition to meeting the university requirements for honors work (see page 72), students in this program will attend the English Honors Seminar and take an oral examination on (a) their honors thesis and (b) English literature. Honors majors will be expected to take more than the minimum language requirements.

The requirement for the minor is 101, 102, and at least two additional courses (6 hours), chosen from 200 or 300 courses, not concentrated in one literary type, century, or field.

1. ENGLISH COMPOSITION

(3) The Staff

The grammatical elements of English composition, the sentence, and the paragraph. After completing English 1 with a grade of not less than C, students are required to pass English 3-4. Credit is not counted toward a degree. Offered every semester.

3-4. ENGLISH COMPOSITION

(3-3) The Staff

A progressive course in written composition. Beginning with a brief review of the fundamentals of grammar and paragraph building, English 3 concentrates on the writing of clear, forceful exposition. English 4 offers more scope for reading, discussion, and analytical writing. Students who receive a "D" in English 3 will register for one of the sections of English 4 marked "Special."

101. SOPHOMORE ENGLISH LITERATURE (I)

(3) The Staff

A survey of English literature from the Middle Ages through the Seventeenth Century, with particular emphasis upon Chaucer, Shakespeare, and Milton. Prereq., 4. Every semester.

102. SOPHOMORE ENGLISH LITERATURE (II)

(3) The Staff

A survey of English literature of the Eighteenth and Nineteenth centuries, including Pope, Swift, Johnson, major Romantic and Victorian poets and Nineteenth Century prose writers. Prereq., 4. Every semester.

111. THE CHIEF AMERICAN WRITERS (I)

(3) The Staff

A study of representative prose and poetry from the writings of Mather, Edwards, Franklin, Paine, Freneau, Irving, Cooper, Bryant, Poe, Hawthorne, Longfellow, Emerson, and Thoreau. Prereq., 4. Every semester.

112. THE CHIEF AMERICAN WRITERS (II)

(3) The Staff

Selected prose and poetry from the writings of Holmes, Whittier, Lowell, Melville, Whitman, Lanier, Dickinson, Clemens, Howells, James, Adams, Stephen Crane, O'Neill, Robinson, Frost, Sandburg, Jeffers, and Eliot. Prereq., 4. Every semester.

223. SHAKESPEARE (I)

(3) Wray

Shakespeare's principal comedies and historical plays read in conjunction with a review of his life and background. The primary emphasis is on reading with understanding and enjoyment. Prereq., 4. 1st sem., yearly.

224. SHAKESPEARE (II)

(3) Wray

Shakespeare's principal tragedies, with particular attention to his dramatic technique and the Elizabethan stage. Prereq., 4. 2nd sem., yearly.

261. THE CONTEMPORARY ENGLISH AND AMERICAN NOVEL (3) Kendall

Recent British authors, including Galsworthy, Conrad, Joyce, Bennett, and Woolf; American authors, including Cather, Dreiser, Lewis, Wolfe; living writers such as Maugham, Huxley, Hemingway, Faulkner; best novels of the season. Prereq., 4. 1st sem., 1954-55.

263. MODERN BRITISH AND AMERICAN DRAMA

(3) Hodnett

Types and tendencies in English, Irish, and American drama since about 1890. A reading and discussion of plays by Wilde, Shaw, Synge, O'Casey, Fry, O'Neill, Anderson, Connelly, Hellman, Sherwood, Saroyan, and Williams. Prereq., 4. 1st sem., 1955-56.

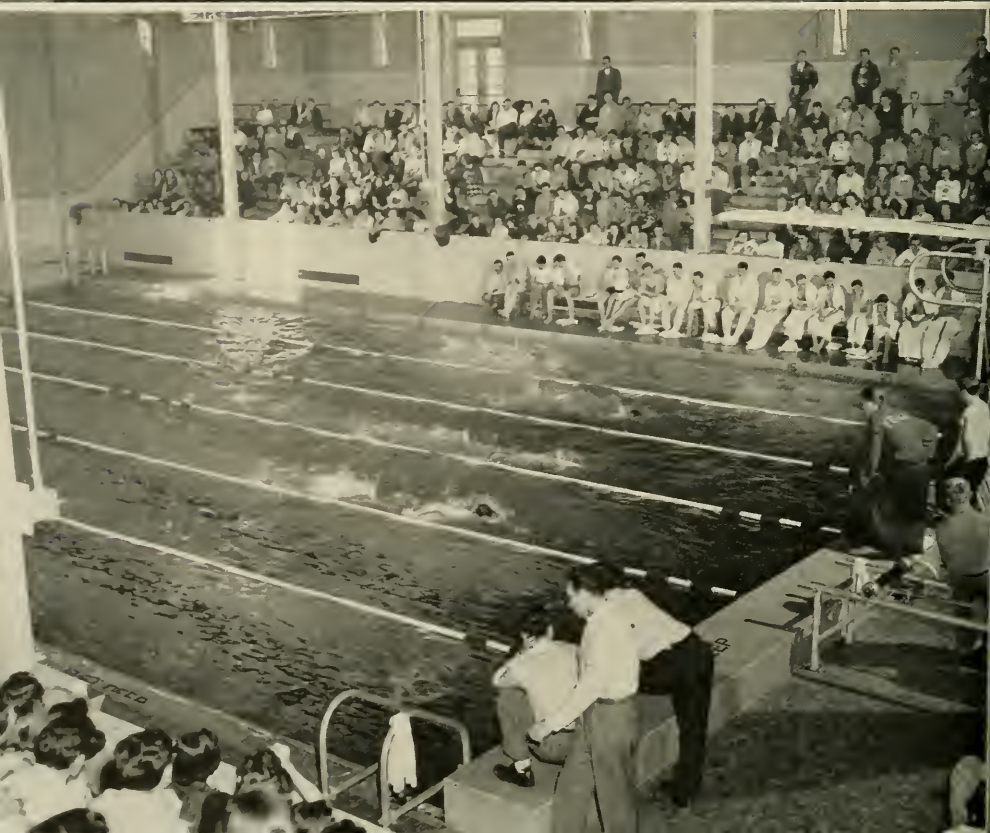
264e. THE TEACHING OF HIGH SCHOOL ENGLISH

(3) Wray

(Same as Ed. 264e) A study of the content and presentation of grammar, composition, and literature—poetry, drama, novel, and short story. Prereq., 4 and junior or senior rank. 1st sem., yearly.

266. THE SHORT STORY (3) McQuiston
 A historical and critical study of the short story, including its origin and evolution as a literary form, its masters in the past such as Poe and De Maupassant, and modern classics. Prereq., 4. 2nd sem., 1954-55.
268. CONTEMPORARY BRITISH AND AMERICAN POETRY (3) Foster
 A study of the major poets writing in English since World War I, including Lewis, Auden, MacNeice, Spender, Thomas; and Eliot, Jeffers, Aiken, Millay, MacLeish, Cummings, Crane. Prereq., 4. 2nd sem. 1955-56.
271. THE ENGLISH NOVEL (I) (3) Mackinnon
 Beginnings of the novel; development of the form from Richardson through Dickens; emphasis upon reading for pleasure. Prereq., 4. 1st sem., yearly.
272. THE ENGLISH NOVEL (II) (3) Mackinnon
 The novel from Thackeray through Hardy, including the Brontes, George Eliot, Reade, Trollope, Meredith, Butler, Gissing. Prereq., 4. 2nd sem., yearly.
273. THE AMERICAN NOVEL (I) (3) Heidler
 The beginnings of the American novel in the Colonial and Revolutionary periods; the early masters of the Nineteenth Century—Cooper, Hawthorne, and Melville. Prereq., 4. 1st sem., 1954-55.
274. THE AMERICAN NOVEL (II) (3) Heidler
 Major novelists of the second half of the Nineteenth Century—Clemens, Howells, James; the rise of the novel in the early Twentieth Century—Howe, Garland, Frederic, Crane, London, Norris. Prereq., 4. 2nd sem., 1954-55.
277. ENGLISH AND AMERICAN BIOGRAPHY (3) Kendall
 The development of biography as a literary form in Great Britain and the United States; its technique; and the masterpieces considered in relation to their authors, subjects, and social background. Prereq., 4. 1st sem., 1955-56.
281. THE EUROPEAN NOVEL (3) Lash
 Reading of famous European novels of the Nineteenth and early Twentieth centuries in translation, with chief emphasis on the Russian, French, German, and Scandinavian. Prereq., 4. 1st sem., 1955-56.
282. EUROPEAN DRAMA (3) Hodnett
 Readings in English of typical plays by Sophocles, Aristophanes, Plautus, Moliere, Ibsen, Strindberg, Hauptmann, Rostand, Chekov, Gorki, Molnar, Pirandello, Capek, and Sartre. Prereq., 4. 2nd sem., 1955-56.
284. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE (3) Lash
 A study of Greek, Latin, Teutonic, and Scandinavian mythology with special reference to the allusions by major English and American writers. Prereq., 4. 2nd sem., yearly.
285. THE BIBLE AS LITERATURE (I) (3) Foster
 A study of those portions of the Old Testament that live as world literature, as masterpieces of English literature, and as a major source of our literary tradition. Prereq., 4. 1st sem., 1954-55.
286. THE BIBLE AS LITERATURE (II) (3) Foster
 The New Testament studied as literature and in its influence on literature. Prereq., 4. 2nd sem., 1954-55.





290. **ADVANCED WRITING** (3) Mackinnon
Individual work in fiction and non-fiction—short stories, essays, articles, verse. Prereq., 4. Every semester.
291. **RESEARCH AND TECHNICAL WRITING** (3) Kirchner
For engineers, scientists, and research students; problems of communication; the organization, writing, and editing of reports, research papers, abstracts, and correspondence; bibliography; individual projects. Prereq., 4. 1st sem., yearly.
311. **HISTORY OF THE ENGLISH LANGUAGE** (3) Thompson
An elementary account of the growth of the English language; its relation to other world languages; the vocabulary and grammar of Anglo-Saxon, Middle English, and Modern English; selections from Early English literature. Prereq., 12 hrs. 1st sem., 1954-55.
312. **CHAUCER** (3) Thompson
Chaucer, his life and his world; contemporary literature; his early works; *The Canterbury Tales*; *Troilus and Criseyde*; Chaucer scholarship. Prereq., 12 hrs., 12 hrs.; 311 recommended. 2nd sem., 1954-55.
321. **SIXTEENTH CENTURY LITERATURE** (3) Wray
A study of England's part in the Renaissance and the humanistic movement as revealed in the works of the chief poets and prose writers of the century, especially Spenser. Prereq., 12 hrs. 1st sem., 1955-56.
322. **ELIZABETHAN DRAMA** (3) Kendall
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.; or 9 hrs., including 101, and 3 hrs. dramatic art. 2nd sem., 1955-56.
323. **SHAKESPEARE (I)** (3) McQuiston
Shakespeare's development as a writer of comedies and historical dramas; his life and social background; the Elizabethan stage and theatrical companies. A research paper. Prereq., 12 hrs. 1st sem., yearly.
324. **SHAKESPEARE (II)** (3) McQuiston
Intensive analysis of the great tragedies and more rapid reading of the other tragedies and the sonnets; Shakespearean scholarship and criticism. A research paper. Prereq., 12 hrs. 2nd sem., yearly.
331. **SEVENTEENTH CENTURY LITERATURE (I)** (3) Foster
The poetry and prose of such writers as Donne and Bacon; Herrick and other Cavalier and "metaphysical" poets; Browne, Walton, Hobbes, Bunyan, Pepys; Restoration plays. Prereq., 12 hrs. 1st sem., 1954-55.
332. **SEVENTEENTH CENTURY LITERATURE (II)** (3) Foster
John Milton's minor poems, some of his prose, and *Paradise Lost*, *Paradise Regained*, and *Sampson Agonistes*; John Dryden as poet, dramatist, and critic. Prereq., 12 hrs. 2nd sem., 1954-55.
341. **EIGHTEENTH CENTURY LITERATURE (I)** (3) Heidler
The poetry of Pope and Gay; the essays of Addison and Steele; the works of Swift and Defoe; the novels of Richardson and Fielding; the drama. Prereq., 12 hrs. 1st sem., 1955-56.

342. EIGHTEENTH CENTURY LITERATURE (II) (3) Heidler
 Dr. Johnson, his works, his personality, his friends; Boswell and his biography of Johnson; Goldsmith and Sheridan; Walpole; Gray and Cowper; the philosophers. Prereq., 12 hrs. 2nd sem., 1955-56.
351. POETRY OF THE ROMANTIC PERIOD (3) Peckham
 The poetry of Wordsworth, Coleridge, Byron, Shelley, Keats; philosophical background and historical context of Romanticism—Rousseau, Godwin, the French Revolution, the Napoleonic Empire. Prereq., 12 hrs. 1st sem., 1954-55.
352. POETRY OF THE VICTORIAN PERIOD (3) Peckham
 The poetry of Tennyson, Browning, Arnold, Swinburne, the Pre-Raphaelites, Meredith, and Hopkins and its relation to "Victorianism"; Hardy, Masefield, and other Edwardians and Georgians. Prereq., 12 hrs. 2nd sem., 1954-55.
353. ENGLISH PROSE OF THE NINETEENTH CENTURY (3) Wray
 A study of the essayists and major prose writers of the Romantic and Victorian periods, including Lamb, Hazlitt, DeQuincey, Coleridge, Carlyle, Newman, Ruskin, Huxley, and Arnold. Prereq., 12 hrs. 1st sem., 1954-55.
356. EMERSON, THOREAU, AND THE CONCORD GROUP (3) Kirchner
 A study of Emerson, Thoreau, Alcott, Fuller, and others whose lives and writings were influenced by that American form of idealism known as Transcendentalism. Prereq., 12 hrs. including 111. 2nd sem., 1955-56.
362. TWENTIETH CENTURY MASTERS (3) Hodnett
 A consideration of such writers as Shaw, O'Neill, Mann, Joyce, Hemingway, and T. S. Eliot. Prereq., 12 hrs. 2nd sem., 1954-55.
372. HISTORY OF LITERARY CRITICISM (3) Thompson
 A review of the theories and practice of literary criticism in Europe from Aristotle through the Renaissance, neoclassic, and Romantic schools to the present. Prereq., 12 hrs. 2nd sem., 1955-56.
390. STUDIES IN ENGLISH (1 to 3) Hodnett and Staff
 Directed reading and research in English or American literature for individual students with special interests and competence. Conferences and papers. (See also the Honors Program.) Maximum credit in course, 6 hrs. Prereq., 12 hrs. and permission. Every semester.
- 391-392. HONORS SEMINAR (1-1) Thompson and Staff
 Discussion of problems of research and of criticism in relation to theses in progress. Required of English majors in the honors program and of candidates for the master's degree in English who are writing a research thesis. Yearly.
- 393-394. CREATIVE WRITING SEMINAR (3-3) Hodnett
 Criticism of manuscripts and discussion of problems of form. Required of candidates for the master's degree in English who are submitting creative work in lieu of the research thesis. Prereq., 290 or equivalent, permission. Every semester.
470. SEMINAR IN LITERARY PROBLEMS (3) The Staff
 Intensive study of an author, group, or form. Prereq., previous courses in the field of the problem.
495. THESIS (1 to 6) Hodnett and Staff
 Prereq., permission. Every semester.

FINANCE

Professors Hanson (chairman), Leavitt
Associate Professor Paynter
Lecturer Wolfe

75. PERSONAL FINANCE (2) Hanson, Leavitt
How to get the most for one's money. A practical course covering insurance, taxes, budgets, stocks and bonds, purchase of a home, borrowing money, investing money, etc. Not open to upperclassmen pursuing the Bachelor of Science in Commerce degree.
101. MONEY AND CREDIT (3) Hanson, Leavitt
The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and bank credit expansion problems.
121. BUSINESS FINANCE (3) Hanson, Leavitt
The elements of business finance, the corporation, corporate securities, and financial plans.
242. CONSUMER FINANCING (2) Hanson
A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101 or permission.
275. INVESTMENT PRINCIPLES (3) Wolfe
Functions of investment, basic elements, return on investments, types of securities and their characteristics, the investment markets, sources of information, investment objectives and risks, government and the investor. Prereq., 121 or permission.
301. 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.
306. INVESTMENT POLICY (3) Wolfe
Investment programs of individuals and financial institutions; analysis of securities of industrial, public utility, railroad, banking, insurance and investment companies; interpretation of financial factors, business conditions and security price movements. Prereq., 275 or permission.
312. CREDITS AND COLLECTIONS (2) Paynter
The principles, methods, and policies of mercantile and retail credit. Prereq., 101 and Ec. 102.
315. PROPERTY AND CASUALTY INSURANCE (3) Hanson, Leavitt
The economics of property and casualty insurance; its uses and types such as fire, extended coverage, consequential loss, public liability, automobile, accident and health, etc. Prereq., Ec. 102 or permission.
316. LIFE INSURANCE (2 or 3 as scheduled) Hanson, Leavitt
The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Ec. 102 or permission.
351. MONETARY THEORY (3) Hanson, Leavitt
The theory and operation of commercial and central banking in the United States with special emphasis upon the economic effects of expansion and contraction of credit upon the economy. Prereq., 101 and Ec. 102.

352. INTERNATIONAL FINANCE (3) The Staff
An introduction to foreign banking and monetary systems and their relationship to American financial institutions; includes operation of the International Monetary Fund and Bank, price relationships, foreign exchange and investments. Prereq., 101 and Ec. 102.
356. PROBLEMS IN CORPORATION FINANCE (3) The Staff
Cases in corporation finance including financing current operations, long term capital needs, reserve and dividend policies. Prereq., 101 and 121.
381. RESEARCH IN FINANCE (2 to 8) The Staff
Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission.
391. SEMINAR IN FINANCE (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 9 hrs., Ec. 102, and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.
Additional course: Ec. 315—Public Finance.

FINE ARTS

General courses in the history and appreciation of the fine arts are open to all students who wish to broaden their knowledge of the field. Advanced courses are listed under the offerings of the various departments.

The minor requirements for the B.F.A. degree may be fulfilled by completing 18 hours in the following courses, including F.A. 17-18.

- 17-18. INTRODUCTION TO THE FINE ARTS (3-3) Seigfred, Olpp, Arment
Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.
- 121-122. HISTORY OF PAINTING AND SCULPTURE (3-3) Olpp
Periods, styles, and great personalities from early times to the present. Analysis of aesthetic qualities in masterpieces of art.
- 123-124. HISTORY OF MUSIC (3-3) Arment
Development of music from ancient times to the present. Not open to students who have received credit in Mus. 5-6. Prereq., 17-18 or permission.
- 175-176. HISTORY OF ARCHITECTURE (3-3) Denison
A general survey of the development of architecture with emphasis on environmental influences. Illustrated lectures.
- 179-180. HISTORY OF THE VISUAL THEATRE (3-3) Lane, Hahne
Survey of theatrical production and acting. Development of the related arts of dance and the motion picture. Fee, \$2 for 180 only.
- 203-204. HISTORY OF ORATORY (3-3) Staats
Survey of the history of oratory from the Greek and Roman periods to modern times.
401. INTRODUCTION TO GRADUATE WORK (3) Kantner
Men, movements, organizations, and professional literature in the field of speech. Conduct of research and selection of a thesis problem.

FRENCH—See Romance Languages

GENERAL STUDIES

1, 2. Biology—THE LIVING WORLD (3, 3) The Staff

A course concerning biological principles and their broad applications. Emphasis is placed upon man's living body and its processes. Plants and animals other than man are compared in the consideration of basic concepts. Attention is given to interdependence of organisms in the maintenance of the balance of the organic community; disease, parasitism, and the nature of evolutionary change. Open to majors in botany or zoology only by permission. 2 lec. and 2 lab. Fee, \$5 a semester.

3, 4. Physics—THE PHYSICAL WORLD (3, 3) The Staff

A general laboratory physical science course for nonscience majors designed to include a study of the principles, methods, and philosophy of the physical sciences; the historical evolution of certain physical concepts; scientific reasoning; and the most important laws in nature. Does not fulfill physics requirements for science majors. 2 lec. and 2 lab. Fee, \$4 a semester.

7, 8. Humanities—GREAT BOOKS (3, 3) Murphy

Guided reading and discussion of literary masterpieces, ancient and modern, as an introduction to the Western humanistic tradition: man's relation to God, right and wrong, society, and environment. Open to those who are eligible for or have taken English 3.

9, 10. Social Science—CITIZENSHIP IN THE MODERN WORLD (3, 3) Murphree and Staff

Course 9 is an introductory analysis of human behavior, drawing primarily on anthropology, sociology, and briefly on biology.

Course 10 furnishes a background for contemporary political and economic problems. The student considers the Industrial Revolution, the theory of Communism from an historical perspective, and the emergence of the democratic heritage.

GEOGRAPHY AND GEOLOGY

Professor Dow (chairman)
Associate Professor Sturgeon
Instructors Rudd, Phelps

The major requirement in geography for the A.B. degree is 30 semester hours in approved departmental courses and Geol. 1-2 or 201; 126-127; and 314.

The major requirement in geography for the B.S. in Education degree is given on page 130.

GEOGRAPHY

3-4. ELEMENTS OF GEOGRAPHY (3-3) Rudd

An introductory study of the relationship between such geographic environmental factors as climate, surface features, soil and minerals and mankind's activities. For freshmen and sophomores especially.

15. ECONOMIC GEOGRAPHY (3) Dow

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.

202. GEOGRAPHY OF THE UNITED STATES AND CANADA (3) Dow, Rudd
Regional treatment of United States, Canada, and Alaska emphasizing the influence of location, climate, earth surface forms, soil, minerals, and natural vegetation upon, and the interrelationship with, human responses.
205. GEOGRAPHY OF LATIN AMERICA (3) Dow, Rudd
Course treatment similar to that indicated in 202.
208. GEOGRAPHY OF EUROPE (3) Dow, Rudd
Course treatment similar to that indicated in 202.
212. GEOGRAPHY OF SOUTHERN ASIA AND ISLANDS (3) Rudd
Course treatment similar to that indicated in 202.
222. GEOGRAPHY OF AFRICA (3) Rudd
Course treatment similar to that indicated in 202.
231. GEOGRAPHY OF OHIO (2) Dow
Detailed regional study of Ohio developed by problem methods.
232. CONSERVATION OF NATURAL RESOURCES (3) Dow
Problems in the conservation of soils, water, minerals, forests and wild life as related to land use. The interrelations of these various factors and their educational significance are emphasized. Field trips. Fee, \$2.
250. GEOGRAPHY AND ENVIRONMENT (3) Dow
The 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.
275. FUNDAMENTALS OF METEOROLOGY (3) Rudd
The weather elements such as temperature, pressure, moisture, winds, etc. Nature and behavior of storms. Air mass analysis. Weather map interpretation and construction. The Weather Bureau and its work. 3 lec. and 1 lab. Fee, \$4.
301. GEOGRAPHY OF THE SOVIET UNION (3) Dow
Intensive geographic study of the Soviet Union. Prereq., 6 hrs.
302. CLIMATOLOGY (2 or 3 as scheduled) Rudd
Nature, causes, and significance of weather and climatic phenomena on a world-wide regional basis. Prereq., 6 hrs., including 275.
310. POLITICAL GEOGRAPHY (3) Dow, Rudd
Geographic basis of national strength or weakness. Physical and cultural influences upon historical development emphasized. Prereq., 6 hrs., or permission.
315. CARTOGRAPHY AND GRAPHICS (3) Rudd
The elementary principles of map projections, map drawing and graph making. Prereq., 6 hrs. and permission.
382. FIELD STUDIES AND SPECIAL PROBLEMS (1 to 4) The Staff
Supervised geographic studies of local areas, industries, or conditions involving fundamentals of geographic research. Prereq., 12 hrs. Fee, \$3.

GEOLOGY

The major requirement in geology for the A.B. or B.S. degree is a minimum of 30 semester hours in approved departmental courses numbered above 100, including 126, 127, 128, 129, 220, 221, 303, 340, 341, 383 and Geog. 3-4 and 315. In addition, the following approved extra-departmental work is required: chemistry, 8 hrs.; civil engineering, 3 hrs.; mathematics, 5 hrs.; physics, 8 hrs.

1-2. ELEMENTS OF GEOLOGY (3-3) The Staff

Introductory geology course including studies of earth features and processes, an outline of earth history, and laboratory exercises with maps, minerals, rocks, and fossils. 2 lec., 2 lab., and field trips. Not open to students who have had Geol. 133 or 201. Fee, \$4 a semester.

126-127. HISTORICAL GEOLOGY (2-2) Sturgeon

Earth history emphasizing geologic development of North America. First semester: Pre-Cambrian and Paleozoic eras; second semester: Mesozoic and Cenozoic. 2 lec., and 1 lab., and field trips. Prereq., 2, or equivalent, or permission. Fee, \$3 a semester.

128. ELEMENTARY MINERALOGY (4) Phelps

Study of minerals emphasizing chemical and physical properties, crystal forms, classification, and identification. 2 lec., 4 lab., and field trips. Prereq., 2 or equivalent, and Chem. 1 or 3. Fee, \$5.

129. ELEMENTARY PETROLOGY (3) Phelps

Study of rocks emphasizing origin, composition, physical properties, classification, and identification. 2 lec., 2 lab., and field trips. Prereq., 128. Fee, \$5.

133. ENGINEERING GEOLOGY (3) Phelps

Study of geologic materials, methods, and principles of value to engineers. 2 lec., 2 lab., and field trips. Not open to students who have had Geol. 1-2, or 201. Fee, \$4.

201. AGRICULTURAL GEOLOGY (3) The Staff

A survey of physical geology and a brief introduction to historical geology for upperclass agricultural students. 2 lec., 2 lab., and field trips. Not open to students who have had Geol. 1-2, or 133. Fee, \$4.

220. PRINCIPLES OF SEDIMENTATION AND STRATIGRAPHY (3) Sturgeon

Principles involved in sedimentation and in determining the chronology and succession of stratified rocks. 2 lec., 2 lab., and field trips. Prereq., 126-127, with 128 and 129 recommended. Fee, \$4.

221. STRUCTURAL GEOLOGY (3) Sturgeon

Study of the earth's architecture and of the diastrophic forces instrumental in the deformation of the earth's crust. 2 lec., 2 lab., and field trips. Prereq., 2, or equivalent, with 126-127 recommended. Fee, \$4.

251. GEOLOGIC FIELD RECONNAISSANCE (1 to 5) The Staff

Vacation period geologic field trips to selected areas in North America with pertinent conferences, study and accepted reports. Prereq., 12 hrs. and permission. Fee, \$5, plus travel expense.

303. ECONOMIC GEOLOGY (3) Phelps

Study of metallic and nonmetallic mineral resources of the earth useful to mankind. 2 lec., and 2 lab. Prereq., 128 and 129. Fee, \$3.

314. PHYSIOGRAPHY (3) Dow, Rudd

Introduction to the earth's surface features and pertinent geologic structures emphasizing the physiography of North America. 2 lec., 2 lab., and field trips. Prereq., 6 hrs. Fee, \$4.

325. **GLACIAL GEOLOGY** (3) Phelps, Rudd
Study of valley and continental glaciers and glaciation. 2 lec., 2 lab., and field trips. Prereq., 126-127. Fee, \$4.
330. **GEOLOGY OF OHIO** (2) Sturgeon
Introduction to the geology of Ohio emphasizing physiography, stratigraphy, and economic geology. 2 lec. and field trips. Prereq., 126-127. Fee, \$2.
- 340-341. **PALEONTOLOGY** (3-3) Sturgeon
Introduction to fossils emphasizing the invertebrates, their morphology, classification, identification, and distribution. Index fossils emphasized. 2 lec., 3 lab., and field trips. Prereq., 126-127 or Zool. 326. Fee, \$5 a semester.
383. **FIELD STUDIES AND SPECIAL PROBLEMS** (1 to 4) The Staff
Supervised geologic studies of local areas or geologic problems involving fundamentals of research. Prereq., 12 hrs. Fee, \$3.

GEOLOGY—See Geography and Geology

GERMAN

Professor Hess
Associate Professor Krauss (chairman)
Acting Assistant Professor Hammer

The major requirement in German for the A.B. degree is a minimum of 20 hours above courses 1-2, including 209-210.

The major requirement in German for the B.S. in Education degree is given on page 131.

- 1-2. **BEGINNING GERMAN** (4-4) The Staff
Instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose.
100. **INTERMEDIATE GERMAN** (3) The Staff
Instruction in pronunciation, reading, conversation, and translation. The course is for students desiring either semester of second-year German, and may be taken either before or after Ger. 101 without duplication. Prereq., 2 or 2 yrs. high school German.
- 101-102. **INTERMEDIATE GERMAN** (4-4) The Staff
Reading of modern German literature with emphasis on conversation, translation, drill in idioms, and some grammar review. Prereq., 2 or 2 yrs. high school German.
103. **GERMAN FOR CHEMISTS** (3) The Staff
A course designed to familiarize chemistry students with the technical expressions found in an elementary German textbook in chemistry. Prereq., 2, or 3 yrs. high school German.
105. **SCIENTIFIC GERMAN** (2) The Staff
A reading course designed to give the student of medicine or the social sciences familiarity with German scientific terms. Prereq., 101 or 3 yrs. high school German.
108. **GERMAN CONVERSATION** (3) The Staff
Practice in pronunciation, conversation, idioms. The materials used deal with everyday German life and customs. Prereq., 101 or 3 yrs. high school German.

121. MODERN GERMAN PROSE (2) The Staff
Selected prose readings to acquaint students with Germany's history, geography, cultural and political institutions and economic problems. For students interested in social sciences and government service. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German.
- 209-210. GERMAN GRAMMAR AND COMPOSITION (2-2) Hess
Review of German Grammar, drill in formal and free composition, and practice in German conversation. Required of all German majors and those students planning to teach German. Prereq., 102 or 3 yrs. high school German, or permission.
- 265r. TEACHING OF FOREIGN LANGUAGES (2) Murphy
(Same as Ed. 265r)
- 301, 302. SURVEY OF GERMAN LITERATURE (3,3) Hess
Prereq., 102, or 4 yrs. high school German.
- 303, 304. READINGS FROM GERMAN LITERATURE (1 to 4, 1 to 4) Krauss
Selected readings adapted to the needs of the class or the student. Maximum credit in each course, 8 hrs. Prereq., 102 or 4 yrs. high school German.
- 311, 312. MODERN GERMAN DRAMA (3,3) 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.
313. CLASSICAL GERMAN DRAMA (3) Hess
Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102 or 4 yrs. high school German.
314. GOETHE'S FAUST (3) Hess
A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 313.
319. THE GERMAN SHORT STORY, 1800-1850 (2) Krauss
Reading of representative short stories from Romanticism to Poetic Realism with discussion of the literary movements. Includes Kleist, Eichendorff, Hoffman, Chamisso, Droste von Huelshoff. Prereq., 102 or 4 yrs. high school German.
320. THE GERMAN SHORT STORY, 1850-1900 (2) Krauss
Reading of representative short stories of Poetic Realism with discussion of this literary movement. Includes Hauff, Stifter, Storm, Keller, Meyer. Prereq., 102 or 4 yrs. high school German.
321. CONTEMPORARY GERMAN SHORT STORY (2) Krauss
Reading of representative stories from Naturalism to the present time with discussion of the various literary movements. The course may be taken either before or after Ger. 319, 320. Prereq., 102 or 4 yrs. high school German.
322. WAGNER'S POETICAL WORKS (2) Krauss
Richard Wagner's principal music dramas will be read and discussed for their literary and dramatic content. Musical highlights will be illustrated with phonograph records. Prereq., 102 or 4 yrs. high school German.
323. GERMAN LYRICS AND BALLADS (2) Krauss
Reading and discussion of the German lyrics and ballads since Goethe. Prereq., 102 or 4 yrs. high school German.

371. ADVANCED GERMAN (1 to 4) Krauss
 Reading and research in German literature designed to meet the special interests of advanced students. Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102.
495. THESIS (1 to 6) The Staff
 Prereq., permission.

GOVERNMENT

Associate Professor Collins (chairman)
 Assistant Professors Gusteson, Elsbree

The work of the department is planned to meet the needs of those who desire to understand the organization and functions of government, to promote active participation in the duties of citizenship, to prepare students to enter government service, to provide training for prelaw students, and to train teachers of government.

The requirement for a major in government is 20 hours, including Govt. 1 and 2. Electives from history, economics, geography, and sociology are recommended with specific courses to be selected in consultation with the adviser.

To begin graduate work with government as a major, a minimum of 18 hours of government or the equivalent is required.

1, 2. AMERICAN GOVERNMENT (3, 3) Collins, Gusteson, Elsbree

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 functioning of state and local governments and may be taken before Govt. 1.

5. AMERICAN DEMOCRACY (2 or 3 as scheduled) Collins

The development of democracy in the United States, the opportunities and obligations of democratic citizenship, intelligent and effective participation in democratic affairs, and the threat of the police state to human freedoms.

6. CURRENT POLITICAL AND SOCIAL PROBLEMS

(2 or 3 as scheduled) Collins, Elsbree

A consideration of current problems of a political, social, and economic nature, with particular emphasis on problems in the field of government.

101, 102. COMPARATIVE GOVERNMENT (3, 3) Collins, Gusteson, Elsbree

A comparison of the American, European, and Oriental systems of government, including organization, procedure, popular representation, and the effect upon the social and economic life of the people.

171. ISSUES IN THE WORLD CRISIS (1) The Staff (Same as Gen. Studies 171)

301, 302. AMERICAN CONSTITUTIONAL LAW (2, 2) Gusteson

Principles underlying American constitutional government as seen in leading cases, with special reference to interpretation of the United States Constitution. Prereq., 6 hrs. government or history.

303. MUNICIPAL GOVERNMENT AND ADMINISTRATION

(2 or 3 as scheduled) Collins

The creation and legal powers of cities, municipal elections and political bosses; an analysis of the administrative functions and problems of city government: personnel, finance, police, public utility regulation and ownership. Prereq., 6 hrs.

305. AMERICAN POLITICAL PARTIES (2 or 3 as scheduled) Gusteson

The origin and growth, the organization and methods of parties, the influence of economic and social conditions on party policy, the position and functions of the party system in democracies. Prereq., 6 hrs.

308. LEGISLATURES AND LEGISLATIVE PROCESSES (2 or 3 as scheduled) Gusteson

Major problems of representative government with respect to legislative assemblies. Analysis of structure, organization, and procedures; problems of representation; relationship between the legislature, the executive, courts, and the people. Prereq., 6 hrs.

309. LAW ENFORCEMENT (2 or 3 as scheduled) Gusteson

Survey and analysis of the problems of the American policing, prosecutory, judicial, and correctional system. Emphasis on both policy making and administration. Prereq., 6 hrs.

316. INTERNATIONAL RELATIONS (2 or 3 as scheduled) Elsbree

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. government or history.

317. CURRENT INTERNATIONAL PROBLEMS (2 or 3 as scheduled) Elsbree

The nonhistorical study of international problems arising from the conflict of national foreign policies, programs for national security, efforts toward world political and economic order, and contemporary policies of the Great Powers. Prereq., 6 hrs. government or history.

323. INTERNATIONAL LAW (2 or 3 as scheduled) Elsbree

The development of the principles of international law governing the community of nations, their present status and unsettled features, agencies for interpreting and administering international law. Prereq., 6 hrs.

341. AMERICAN FOREIGN POLICY (2 or 3 as scheduled) Collins

A consideration of the problems involved in the formulation and execution of foreign policy. Particular emphasis is given to the current problems of American policy. Prereq., 6 hrs. government or history.

343. AMERICAN POLITICAL THOUGHT (2 or 3 as scheduled) The Staff

The origin and development of political ideas in the United States, growth of democratic principles from the colonial times to 1865, and an analysis of recent trends in American political thought. Prereq., 6 hrs. or 9 hrs. history.

344. RECENT POLITICAL THOUGHT (2 or 3 as scheduled) The Staff

Recent political theories basic to political and social institutions: individualism, collectivism, fascism, and democracy; emphasis on the European version of democracy, totalitarianism of the communist and fascist states. Prereq., 6 hrs. or 6 hrs. European history.

348. PUBLIC ADMINISTRATION (2 or 3 as scheduled) Collins

The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 6 hrs.

349. ADMINISTRATIVE LAW (2 or 3 as scheduled) Collins
 Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 6 hrs.
398. PROBLEMS IN GOVERNMENT (1 to 3) The Staff
 Research or directed reading based upon the student's special interest. Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.
401. RESEARCH IN GOVERNMENT (1 to 3) The Staff
 Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.
495. THESIS (1 to 6) The Staff
 Prereq., permission.

GREEK—See Classical Languages

HEALTH—See Physical Education and Athletics

HISTORY Professors Volwiler (chairman), Whitehouse, Cady
 Associate Professors Morrison, Gustavson, Murphy, Kershner
 Assistant Professor C. H. Roberts
 Instructor Mayes

The major requirement in history consists of a minimum of 24 hours, including Hist. 1, 2, 101, 102 (unless excused as the result of taking a placement test), and at least two courses in or above the 300 group, selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year. The requirement for a major in history and government for the B.S. degree in Education is given on page 131. Government, economics, geography, and sociology are suggested as minors, with specific courses to be selected in consultation with the adviser.

Graduate students majoring in history are required to have Hist. 395. In order to undertake graduate work with history as a major, a student is required to have a minimum of 18 semester hours in history, including the basic survey courses in American and European history, or their equivalent.

1, 2. WESTERN CIVILIZATION IN MODERN TIMES

(3,3) Cady, Gustavson, Mayes, Volwiler

Hist. 1 covers the period from 1450 to 1815 and stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion, the French Revolution and Napoleonic Era. Hist. 2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts toward world organization.

101, 102. HISTORY OF THE UNITED STATES (3, 3) Kershner, Volwiler

A survey course covering the political, diplomatic, social, and economic development of American history. Hist. 101 covers the period to 1865; Hist. 102, the period from 1865 to the present.

105. HISTORY OF OHIO (2 or 3 as scheduled) Morrison

110. 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.

111. THE NEW SOUTH (3) Morrison

Social, economic, and political life since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, the South today.

115. ANCIENT HISTORY (3) Mayes

120. MEDIEVAL HISTORY (3) Mayes

A study of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance.

125, 126. ENGLISH HISTORY (3,3) Cady

Designed for English majors and prelegal students as well as for the general student of history. The first semester covers the period to 1688 and stresses institutional aspects of medieval England and the social, political, and constitutional developments in the Tudor and Stuart periods. The second semester emphasizes cultural and economic developments, the British empire, constitutional and social reforms, and the impact of World Wars I and II.

145. LATIN AMERICAN HISTORY (3) Cady

Emphasis will be placed on the national rather than the colonial period.

220. THE UNITED STATES IN THE EARLY TWENTIETH CENTURY (3) Morrison

Social conditions, agriculture, business, transportation, communication, labor, imperialism and foreign trade, trends toward state capitalism and regulation, new governmental agencies, political changes, the new outlook. Prereq., 6 hrs.

235. STATESMEN OF THE UNITED STATES (2 or 3 as scheduled) Morrison

Prereq., 6 hrs.

240. HISTORY OF CANADA (2) Morrison

250. THE FAR EAST (3) Cady

Geographical factors; political and cultural traditions of historic China and Japan; attempted adjustments to the impact of the West in the nineteenth century; collapse of Manchu China; Japanese imperialism culminating in World War II; the postwar Far Eastern scene.

269h. TEACHING OF THE SOCIAL STUDIES IN JUNIOR AND SENIOR HIGH SCHOOLS (2) Roberts

(Same as Ed. 269h) The nature, development, purpose, and value of the social studies, with emphasis on methods and techniques of instruction in this field. Problems of curriculum reorganization, unit planning, materials of instruction, and evaluation. Prereq., 12 hrs. social sciences.

301. COLONIAL AMERICA (3) Kershner

The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. Prereq., 6 hrs.

302. THE REVOLUTIONARY ERA (3) Kershner

An intensive study of the causes of the Revolution, the struggle for independence, the movement for a new government, and the framing of the Constitution. Prereq., 6 hrs.

304. **FEDERALISM AND JEFFERSONIAN DEMOCRACY** (2) Kershner
The shaping of America's political, social, and economic institutions, constitutional development, and traditional foreign policy under the Founding Fathers and the exponents of Jeffersonian democracy. Prereq., 6 hrs.
310. **SECTIONAL CONTROVERSY, 1820-1850** (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.
312. **THE CIVIL WAR AND RECONSTRUCTION** (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, general cultural and economic development. Prereq. 6 hrs.
315. **FOUNDATIONS OF TWENTIETH CENTURY UNITED STATES, 1877-1900** (3) Volwiler
Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs.
325. **THE WESTWARD MOVEMENT** (3) Volwiler
Expansion from the Atlantic 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.
331. **SOCIAL HISTORY OF THE UNITED STATES** (3) Kershner
The story of immigration, race, the family, class structure, religion, leisure and "the American way of life"; problems of disease, poverty, crime, and urbanization. Prereq., 6 hrs.
332. **CULTURAL HISTORY OF THE UNITED STATES** (3) Kershner
The development of American art, architecture, music, forms of literary expression, science, and educational means for the dissemination of culture. Prereq., 6 hrs.
340. **THE UNITED STATES AND WORLD AFFAIRS SINCE 1929** (3) Volwiler and Staff
Prereq., 6 hrs.
350. **THE BRITISH EMPIRE** (3) Cady
Prereq., 6 hrs.
352. **INDIA AND SOUTHEAST ASIA IN MODERN TIMES** (3) Cady
Historic civilizations of India and Southeast Asia; the impact of Western colonial rule on the peoples of the area; readjustment following the gradual liquidation of colonial empires. Prereq., 6 hrs.
357. **LATIN AMERICA AND THE UNITED STATES** (2 or 3 as scheduled) Whitehouse
A topical treatment of the diplomatic relations between the United States and the Latin American countries. Prereq., 6 hrs.
360. **THE RENAISSANCE** (2) Gustavson
Prereq., 6 hrs.
362. **THE REFORMATION** (2) Gustavson
Prereq., 6 hrs.

365. FRENCH REVOLUTION (3) Gustavson
An intensive study of such historical factors as causation, influence of ideology, institutional organization, and the role of the individual in a great social upheaval. Prereq., 9 hrs.
370. EUROPE BETWEEN WORLD WARS (3) Gustavson
Fascism, communism, and the twenty-year armistice between 1919 and 1939. Prereq., 6 hrs.
372. CONTEMPORARY EUROPE (3) Gustavson
Problems of peace and war in present-day Europe. Prereq., 6 hrs.
375. HISTORY OF RUSSIA (3) Gustavson
A survey from the earliest times to the present. The Russian background of communist ideas, organization, and practices is stressed. Prereq., 6 hrs.
385. 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.
390. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS (2 or 3 as scheduled) Volwiler
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.
392. PROBLEMS IN HISTORY (1 to 3) 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.
395. HISTORIOGRAPHY AND METHODOLOGY (3) Volwiler
An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs.
398. SEMINAR IN HISTORY (1 to 3) The Staff
Reports based upon original research with group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

HOME ECONOMICS

Professor V. M. Roberts
Associate Professor Patterson
Assistant Professors Macauley, Davis, Bane, Lewis
Instructors Nehls, Langford, Gangwer, Cowan
Acting Instructors Mosley, Murray

The School of Home Economics offers work in the following fields: (1) Clothing and Textiles, (2) Child Development and Family Life, (3) Foods and Nutrition, (4) Home Economics Education, and (5) Home Furnishing, Equipment, and Management.

Basic courses in each area of home economics are set up with emphasis directed toward home and family living. Students who are major-

ing in other departments, but desire training for homemaking may elect any of the basic courses (see "Core Courses," page 89).

Students majoring in home economics take the basic courses during the first two years and follow a professional curriculum during the junior and senior years. Requirements for a Bachelor of Science in Home Economics degree are indicated on page 88.

GENERAL HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS

(1) Roberts assisted by specialists in each field

The value of home economics for home and family life; the opportunities for careers in the various fields of home economics. Vocational testing, guidance, and counseling. Fee, \$1.

72. HOME NURSING AND FAMILY HEALTH

(2) Murray

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

390a, b, c, d, e. FIELD WORK IN HOME ECONOMICS

(2 to 4) The Staff

- (a) Home Economics Extension
- (b) Home Service Work With Public Utilities
- (c) Institutional Management
- (d) Retail Merchandising
- (e) Radio-TV

Through cooperation with business organizations, department stores, radio-TV stations, and the Home Economics Extension Department opportunities are given for on-the-job training and practical experience. Students are assigned to a faculty adviser who serves as coordinator of the work established with these outside agencies. Prereq., 18 hrs., and permission.

391. SEMINAR IN HOME ECONOMICS

(1 or 2) The Staff

Prereq., 18 hrs., and permission.

495. THESIS

(1 to 6) The Staff

Prereq., permission.

CHILD DEVELOPMENT AND FAMILY LIFE

5, 6. CHILD DEVELOPMENT AND FAMILY LIVING

(3, 3) Nehls, Gangwer

H. Ec. 5 deals with the physical, emotional, social, and intellectual development of the child from conception through adolescence. The home environment, the care, and the guidance which foster the total development of the child will be stressed. The Nursery School is used for observation of young children.

H. Ec. 6 stresses the problems confronting young people in establishing a family. Actual family case studies are analysed. Attention is given to the reinforcement the family may secure through interactions with the church, the school, and the community. Fee, \$3 a semester.

172. ADVANCED CHILD DEVELOPMENT

(2) Nehls

Parental attitudes and guidance techniques making for the mental health of parent and child; parental practices in furthering the child's interest in recreational activities. 1 lec., 3 hrs. participation in Nursery School. Prereq., 5, or 6 hrs. psychology. Fee, \$3.

375. PROBLEMS IN CHILD DEVELOPMENT OR FAMILY LIVING

(2 or 3) Nehls, Gangwer

An intensive study of a phase of child development or a problem in family living. Maximum credit in course, 6 hrs. Prereq., 6 and 172, or 6 hrs. psychology and/or sociology. Fee, \$3.

377. TECHNIQUES WITH YOUNG CHILDREN

(3) Nehls, Gangwer

Techniques of guidance of nursery school children, with emphasis on emotional and social development of the child and the effect of family attitudes on behavior. 2 lec., and 3 hrs. at Nursery School. Prereq., 6 and 172. Fee, \$3.

378. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN

(Not offered in 1955-1956) (3) Gangwer

The organization and administration of Nursery School. Prereq., 6 and 172.

379. GUIDANCE OF NURSERY SCHOOL CHILDREN

(2 to 6) Nehls

Techniques of handling young children are learned through observation and participation in the Nursery School. Maximum credit in course, 8 hrs. Prereq., 377 or 6 hrs. psychology and permission. Fee, \$3.

477. SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS OR CHILD DEVELOPMENT

(2 or 3) Nehls

An intensive study of a problem in family relationships or child development. Maximum credit in course, 6 hrs. Prereq., 6 and 172 or 12 hrs. psychology, sociology and/or human relations.

CLOTHING AND TEXTILES

3-4. CLOTHING SELECTION AND CONSTRUCTION

(2-2) Bane, Cowan

A basic course in clothing construction with discussions on color, line, personal attractiveness, fashion, and wardrobe planning. 1 lec. and 3 lab. Fee, \$2 a semester.

110. TEXTILES

(2) Cowan

A basic textile course involving the study of textile fibers and the construction, processing, use and care of fabrics. 1 lec. and 3 lab. Fee, \$2.

212-213. FLAT PATTERN DESIGN (Not offered in 1954-1955)

(2-2) Bane

Dress pattern making including bodices, sleeves, collars, cuffs, skirts, etc. Emphasis on advanced fitting problems and the execution of original designs. Construction of one original garment. 1 lec. and 3 lab. Prereq., 4 and 110 or Design 137 and permission. Fee, \$2 a semester.

310. TECHNIQUES IN CLOTHING DESIGN (Summer session only)

(2) Bane

An advanced course in clothing that offers opportunity for creative expression and for an understanding of pattern through the handling of fabrics on the dress form. Dresses are designed, draped, and constructed. 1 lec. and 3 lab. Prereq., 4 and 110. Fee, \$3.

311. ECONOMICS OF TEXTILES AND CLOTHING

(2) Cowan

A study of the production, distribution, and merchandising of textiles and clothing. Selected problems on clothing, accessories, shoes, etc. Prereq., 4 and 110; for non-majors, 110 and 6 hrs. economics.

315. HISTORY OF COSTUME AND TEXTILES (Not offered 1955-1956) (2) Cowan
 Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 4 and 110.
316. TAILORING (3) Bane
 Tailoring of suits or coats. Emphasis placed on professional techniques, advanced fitting problems, and construction of high fashion garments. 6 lab. and demonstration. Prereq., 4 and 110. Fee, \$3.
318. ADVANCED TEXTILES (3) Cowan
 Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 4 and 110, Chem. 2 or 4. Fee, \$3.
319. PROBLEMS IN TEXTILES OF CLOTHING (2 or 3) Bane, Cowan
 Intensive study of one or more problems related to textiles or clothing. Maximum credit in course, 6 hrs. Prereq., 12 hrs. clothing and textiles and permission.

FOODS AND NUTRITION

- 1-2. FOODS, NUTRITION AND MEAL PLANNING (3-3) Lewis, Mosley
 Selection, storage, preparation, and serving of food. Nutrition and all aspects of food management in the home are considered. 1 lec., 1 discussion, 4 lab. Fee, \$5 a semester.
23. ELEMENTARY NUTRITION (1) Patterson
 Dietary patterns and their relation to human health and weight control. Meets the requirements for obtaining a Red Cross Certificate in Nutrition.
125. FAMILY NUTRITION (3) Lewis
 The relation of nutrition to growth, development, and maintenance of health in all age groups. 2 lec. and 2 lab. Prereq., 2. Fee, \$3.
322. EXPERIMENTAL COOKERY (3) Lewis
 Group and individual experiments on selected problems of food preparation. Offered in alternate years. 1 lec. and 4 lab. Prereq., 2 and Chem. 113. Fee, \$5.
323. FOOD PRESERVATION (2) Lewis
 Methods of home food preservation and factors affecting palatability and retention of nutrients in processed food. 1 lec. and 2 lab. Prereq., 2. Fee, \$5.
326. ADVANCED NUTRITION (3) Lewis
 Applications of principles of nutrition to the feeding of individuals and families under varying physiological, economic, and social conditions. 2 lec. and 2 lab. Prereq., 125. Fee, \$3.
327. QUANTITY COOKERY (3) Macauley
 Preparation and serving of foods in large quantities. Use of modern equipment. Laboratory practice in the cafeteria and residence halls of Ohio University. Prereq., 2.
328. RECENT DEVELOPMENTS IN FOODS AND NUTRITION (Summer sessions only) (3) Roberts
 Reports, discussions, and reviews of scientific literature. Some laboratory projects may be included. Prereq., 2.

329. NUTRITION IN DISEASE (2) Macauley
The use of diet in the prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec. and 2 lab. Prereq., 326. Fee, \$3.
340. PROBLEMS IN FOODS AND NUTRITION (2 or 3) Roberts, Macauley, Lewis
A comprehensive study of nutrition, experimental foods, food or nutrition chemistry, or institutional management. Maximum credit in course, 6 hrs. Prereq., 9 hrs. foods and nutrition and permission. Fee, \$5.
342. INSTITUTION MARKETING AND MEAL MANAGEMENT (2) Macauley
Studies in production, distribution and storage of food supplies to serve as a basis for the purchase of such commodities for quantity use. Record keeping involved in food service. 1 lec. and 3 lab. Prereq., 327. Fee, \$2.
343. INSTITUTION EQUIPMENT AND FURNISHINGS (2) Macauley
Kitchen planning and selection of equipment including materials, construction, installation, operation, care, and relative cost; floor plans and specifications. 1 lec. and 3 lab. Prereq., 327. Fee, \$2.
348. INSTITUTION MANAGEMENT (3) Macauley
Principles of organization and administration which apply to food units in school lunch rooms, and public and private institutions. Administration of labor; standards of work; cost control. Prereq., 327.
433. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION (2 or 3) Lewis
An intensive study of a phase of food chemistry or nutrition. Maximum credit in course, 6 hrs. Prereq., 326 and Chem. 113. Fee, \$5.

HOME ECONOMICS EDUCATION

155. HOME ECONOMICS FOR THE ELEMENTARY SCHOOL (2) Patterson
Problems related to home economics at the elementary level and suggestions for procedures and practices in solving them. Three hours each week for class discussion, and laboratory work. Fee, \$3.
- 268h. TEACHING OF HOME ECONOMICS (3) Patterson
(Same as Ed. 268h) Organization, methods, classroom procedures, evaluation, and teaching aids in home economics for secondary schools. Required of senior home economics students who intend to teach home economics. Concurrent, Ed. 281. Prereq., for minors, 15 hrs. home economics, and permission. Fee, \$3.
- 350h. PROBLEMS IN THE TEACHING OF HOME ECONOMICS (1 to 3) Patterson
(Same as Ed. 350h) Opportunity for individual selection of problems. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and 268h.
368. VOCATIONAL HOME ECONOMICS (Summer session only) (3) Patterson
(Same as Ed. 368) History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observations arranged. Prereq., 268h or teaching experience in home economics.
- 368a. HOME ECONOMICS IN ADULT EDUCATION (3) Patterson
Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for family living. Prereq., 18 hrs. home economics.

368b. DEMONSTRATION TECHNIQUES (2) Roberts, Lewis
 Practical experience in the demonstration of foods, equipment, or clothing. Planned for teachers and for those going into foods or public utility work. 4 lab. Prereq., 12 hrs. Fee, \$3.

450h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS (2 or 3) Patterson
 Intensive study of some phase of home economics education. Maximum credit in course, 6 hrs. Prereq., teaching experience in home economics.

HOME FURNISHINGS, EQUIPMENT, AND MANAGEMENT

7. THE HOME AND ITS FURNISHINGS (2) Langford
 A practical and aesthetic study in house furnishings including basic art qualities, styles of houses and interiors; analysis of modern floor plans; selection and arrangement of furniture and accessories. 1 lec. and 2 lab. Fee, \$3.
8. CONSUMER PROBLEMS OF THE FAMILY (2) Macauley
 Education of the household buyer by practical application of market devices as aids to the consumer buyer; retailing activities as they affect the role of the consumer. 1 lec. and 2 lab. Fee, \$3.
330. WORKSHOP IN HOME FURNISHINGS (3) Langford
 Laboratory problems in advanced techniques in home furnishings, including upholstering, slip-covering, refinishing furniture, making draperies, etc. 1 lec. and 4 lab. Prereq., 7 and 4; for non-majors, 7 and 4 hrs. art and permission. Fee, \$3.
331. ECONOMICS OF FURNISHINGS (Offered as needed) (2) Cowan
 A study of the production, distribution, and qualities of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 330; for non-majors, 6 hrs. economics.
334. HOUSEHOLD EQUIPMENT (3) Macauley
 Household operating and equipment problems. A critical analysis of the use of equipment to establish standards for effective use. 1 lec. and 4 lab. Prereq., 2 and 8. Fee, \$3.
351. HOME MANAGEMENT (2) Langford
 Economic use of time, energy, and money in the successful functioning of the home from the viewpoint of the satisfaction of members of the family. Prereq., 2 and 8, or 6 hrs. sociology.
353. HOME MANAGEMENT LABORATORY (3) Langford
 Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge is made to cover room and board. Prereq., 351 or with 351, and permission.
358. PROBLEMS IN FAMILY ECONOMICS (1 to 3) Langford
 Individual investigation of family income, expenditures, and standards of living. Minimum standards of living are emphasized; planned for majors in social work. Prereq., 351 or 6 hrs. sociology and permission.
452. SPECIAL PROBLEMS IN HOUSEHOLD EQUIPMENT AND HOME MANAGEMENT (2 or 3) Macauley, Langford
 An intensive study of the efficient management of time, energy, or money in the home. Maximum credit in course, 6 hrs. Prereq., 351 and 353 and 334.

HUMAN RELATIONS

Professor A. C. Anderson, Patrick
Starcher (chairman)
Assistant Professor B. R. Black
Instructors E. I. Anderson, Cook

Courses in the department are designed to contribute to the general education of students in any field. Majors in any area who plan to prepare for personnel work in business and industry, social work and administration, government agencies, or education are invited to confer with members of the staff about selection of courses in this and related departments.

291-292. PRACTICUM IN STUDENT PERSONNEL (3-3) Black, E. I. Anderson

A survey of the problems of orientation of freshmen to college. Supervised experience including observation, discussion, and practice in personnel and guidance. 1 lec. and a minimum of 4 lab. Prereq., permission.

301. MARRIAGE (3) Patrick and Associates Elliott, Houf, Hudson, V. M. Roberts, Rowles

A clinical approach to the problems of dating, courtship, marriage, parenthood, and childhood adjustments in the light of scientific and philosophical thinking of today. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social sciences, or 6 hrs. social sciences and 6 hrs. biology. Fee, \$1.

303-304. HUMAN RELATIONS (3-3) A. C. Anderson, Black

A course taught by the case method, designed for students interested in studying the habits and skills of analysis, judgment, and action important to people in all walks of life. Prereq., permission. Fee, \$1 a semester.

325. FIELD WORK OR RESEARCH (1 to 3) The Staff

An opportunity for individual work in a specialized area of human relations; field work in human relations; or research under the direction of the staff. Prereq., 303 and permission.

491, 492. SEMINAR IN HUMAN RELATIONS (3, 3) The Staff
Prereq., 303 or 304, and permission.**493, 494. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION (3, 3) Black**

Designed for those specializing in student personnel work. Emphasis on philosophy and current trends in student personnel work and administrative procedures for effective coordination of services within a student personnel program. Prereq., 18 hrs. social sciences and permission.

495. THESIS (1 to 6) The Staff
Prereq., permission.**HUMANITIES****7, 8. GREAT BOOKS (3, 3) Murphy**
(See "General Studies," page 229).**INDUSTRIAL ARTS** Associate Professors Kinison, Paige (chairman)
Assistant Professors Calvin, Perry, Sellon

The following courses are required for a major in industrial arts: E. D. 1, 15; Ind. A. 1, 2, 3, 4, 11, 13, 14, 105, 116, 131, 141, 260m, 309. Additional courses are determined by the requirements for the B. S. Ed. degree.

1. GENERAL WOODWORKING I (3) Paige
A study of the uses of common hard and soft woods, hand tools, and machinery, joints and other methods of wood fabrication, glues, finishes, and the planning of projects. 1 lec. and 4 lab. Fee, \$3.
2. GENERAL WOODWORKING II (3) Paige
A study of the operation of common woodworking machinery, cabinet construction, decorative processes, veneering and house framing. 1 lec. and 4 lab. Prereq., 1. Fee, \$3.
3. PRACTICAL ELECTRICITY (3) Perry
A study of sources, principles, and measurements of electricity. Planning and construction of devices to illustrate electrical effects. 1 lec. and 4 lab. Fee, \$3.
4. PRACTICAL POWER AND TRANSPORTATION (3) Perry
Experimentation, project construction and study of air, steam, water, electricity and internal combustion of gases as sources of power, and their effects on industry and transportation. 1 lec. and 4 lab. Fee, \$3.
5. DRIVER EDUCATION (1) Perry
A beginning course in driving. Laboratory practice in a dual-control car. Study includes the car and current problems of traffic. Credit not counted toward degree. 1 lec. and 1 lab. Fee, \$10.
6. WOOD TURNING (2) Paige
A laboratory course in the designing and making of objects on the wood turning lathe. It includes spindle, faceplate, chuck, mandrel turning, and methods of finishing on the wood lathe. 4 lab. Fee, \$2.
8. ORIENTATION IN INDUSTRIAL ARTS (2) The Staff
A course of brief experiences with materials, tools and processes, planning and finishing. Designed to help the student consider teaching industrial arts as a profession. 4 lab. Fee, \$2.
9. CRAFT AND HOBBY WORK (2) Perry
A laboratory course in which any student of the University may learn to work with wood, metal, leather, reed, plastics, textiles or other available materials. 4 lab. Fee, \$2.
11. DUPLICATING (3) Kinison
The study and operation of the following duplicating processes: the mimeograph, gelatin duplicator, spirit duplicator, silk screen printing, photography, block printing, etching, dry point, and blueprinting. 1 lec. and 4 lab. Fee, \$3.
13. GENERAL COLD METALS (3) Calvin
A study of the materials and the fundamental operations involving hand and machine work in sheet metal, bench metal and machine shop. 1 lec. and 4 lab. Fee, \$3.
14. GENERAL HOT METALS (3) Sellon
This course includes the basic operations in forge, foundry, and welding practice. Related information, both technical and general, is included as part of each phase of laboratory work. 1 lec. and 4 lab. Fee, \$5.
19. AUTOMOTIVE THEORY AND REPAIR (3) The Staff
A study of the automobile with emphasis on servicing and overhauling the engine and chassis. 1 lec. and 4 lab. Fee, \$3.

51. FARM SHOP I (3) Paige
A study of woodworking, concrete working and electricity as applied to building and repair work on the farm. 1 lec. and 4 lab. Fee, \$3.
52. FARM SHOP II (3) Sellon
A study of bench metal working, forging, soldering, welding and tempering of tools applied to practical construction and repair work on the farm. 1 lec. and 4 lab. Fee, \$5.
102. PRACTICAL CARPENTRY (3) Paige
The fundamental processes of carpentry which are involved in house construction, including staking out, concrete forms, framing, flooring, sheathing, insulating, interior finishing, framing of windows and the framing and hanging of doors. Prereq., 1. 6 lab. Fee, \$3.
104. FURNITURE UPHOLSTERY (2) Paige
A study of the tools, equipment, and materials used in the construction and repair of spring seats, padded seats, and overstuffed furniture. Practice will include both old and new construction. 4 lab. Fee, \$2.
105. MATERIALS AND FINISHES (3) Paige
A study of the different materials and finishes that are generally used in the industrial arts laboratories: their sources, manufacture, and application.
107. SHEET METAL (2) Calvin
The laboratory work consists of laying out, cutting, forming, joining, decorating and finishing sheet metals. Proper use and maintenance of hand tools and machine tools are emphasized. 4 lab. Prereq., 13 or permission. Fee, \$2.
109. CABINETMAKING (3) Paige
The design and construction of various kinds of cabinets. Includes individually-designed projects and production methods. 6 lab. Prereq., 2. Fee, \$3.
115. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL (1 or 2) Perry
The operation and use of common hand tools to form wood, metal and other materials. Planning and construction of articles commonly associated with elementary school classroom work. 1 lec. and 1 lab. Prereq., elementary teaching majors only. Fee, \$2.
116. CONSTRUCTIVE DESIGN (2) Paige
A study of the principles of design and their application to industrial arts projects, and of the identification of the periods of furniture design. 4 lab.
117. SHOP AND MACHINE MAINTENANCE (2 to 4) Paige
Practice in common jobs necessary to maintain tools and machines in industrial arts school laboratories. This includes sharpening and adjustment of both hand and power tools, electric motor hook-up and repair. 4 to 8 lab. Prereq., permission.
121. PATTERN MAKING (1) Sellon
A laboratory course which includes a study of tools, machinery, pattern layout, joinery, and special types of construction of wood patterns. 2 lab. Fee, \$1.
124. MACHINE SHOP (2) Calvin
The shaping of metal by the use of the engine lathe, the shaper, the milling machine, and including the care and upkeep of these machines. 4 lab. Prereq., 13 or permission. Fee, \$2.

128. **ADVANCED METAL WORK** (3) Calvin
Continuation of technical operations on metalworking machinery, theory of inspection, product control, gauging and measuring devices. Laboratory work includes operations in both cold and hot metal areas. 6 lab. Prereq., permission. Fee, \$3.
129. **WELDING** (2) Sellon
Application of principles and techniques of oxy-acetylene and arc fusion welding of ferrous and nonferrous metals; brazing; selection, care and use of equipment and supplies; welding metallurgy. 4 lab. Prereq., 14 or permission. Fee, \$8.
131. **INTRODUCTION TO CERAMICS** (2) Paige
A study of the processes of forming pottery, tile and brick; of concrete work, including the building of forms, and the use of other stone setting materials. 1 lec. and 3 lab. Prereq., 2 or permission. Fee, \$2.
141. **PRINTING** (3) Kinison
This course consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen presswork. 1 lec. and 4 lab. Fee, \$3.
142. **PRINTING** (3) Kinison
The course deals with papers and paper making, ink, care of supplies, designing and setting display composition, the making of stereotype mats and castings, and platen presswork. 1 lec. and 4 lab. Prereq., 141. Fee, \$3.
144. **PHOTOLITHOGRAPHY** (3) Kinison
Practice in the making of off-set plates of several kinds and operation of the off-set press. Plate making involves the use of copying camera and the whirler. 6 lab. Fee, \$3.
147. **ADVANCED PRINTING** (3) Kinison
Deals with the problems that are encountered in a commercial printing shop. 6 lab. Prereq., 142. Fee, \$3.
199. **ADMINISTRATION OF DRIVER EDUCATION** (2 or 3) Perry
For prospective driving teachers. Certification by the American Automobile Association upon completion. Certification for teaching in the high schools of Ohio depends upon certification in at least one other high school subject. 2 lec. and 2 lab. Prereq., drivers license. Fee, \$5.
- 260m. **TEACHING OF INDUSTRIAL ARTS** (3) Kinison
(Same as Ed. 260m) A study of the techniques used in teaching industrial arts. Emphasis on organizing and planning, courses of study, methods of presenting technical and related information, evaluating student progress and shop management. Prereq., 12 hrs.
299. **PROBLEMS IN SAFETY EDUCATION** (2) Perry
A study of current practices in the field of safety education. Special emphasis may be given to applications in the fields of transportation, manufacturing, and driver education.
309. **ADMINISTRATION OF THE GENERAL SHOP** (3) Paige
Supervision and administration as related to the general shop. Types of organization, laboratory planning, equipment selection, tool storage, and accounting systems are topics studied. Prereq., 12 hrs.
326. **HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS** (3) Calvin
A study of the history of industrial arts from its earliest beginnings down to the present, including the Smith-Hughes Law and the George-Deen Act and their administration in Ohio.

328. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (1 to 3) Kinison

A research course where individual problems are selected for investigation, solution, and reporting. Maximum credit in course, 6 hrs. Prereq., senior rank.

450a, b, c, d. ADVANCED WORK IN WOOD, METAL, PRINTING OR POWER (2) The Staff

Advanced laboratory work in the wood, metal, printing or power areas along with a study of the industrial practices in the field selected. The course may be repeated in different areas for a maximum credit of 6 hrs. 4 lab. Prereq., (a) Wood, 1, 2; (b) Metal, 13, 14; (c) Printing, 11, 141; (d) Power, 3, 4. Fee, \$2.

457. CURRICULUM BUILDING IN INDUSTRIAL ARTS (3) Kinison

A study of the building of a complete industrial arts curriculum and of the construction of the several courses that make up the curriculum. Prereq., 16 hrs.

471. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION (3) The Staff

This course is a study of the philosophy of industrial education, of the Federal laws pertaining to vocational education and of the problems and practices of administration and supervision of vocational and non-vocational industrial education in the public schools. Prereq., permission.

481. RESEARCH IN INDUSTRIAL ARTS (1 to 3) The Staff

Students are directed in the investigation of selected phases of the theory and practice of industrial education. Maximum credit in course, 6 hrs. Prereq., Ed. 488, or concurrently with Ed. 488, and 15 hrs.

491. SEMINAR IN INDUSTRIAL ARTS EDUCATION (1 to 3) 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. Maximum credit in course, 6 hrs. Prereq., 15 hrs.

495. THESIS (1 to 6) The Staff

Prereq., permission.

ITALIAN—See Romance Languages

JOURNALISM

Professors Lasher, Hortin (director)
Associate Professor Turnbull
Assistant Professors Gillespie, Baird
Instructors Nichols, Webb, Reamer

(The following journalism courses in the radio area are listed and described on page 278: Radio 79—Introduction to Radio-TV, Radio 280—Radio-TV News Writing and Editing, Radio 285—Radio-TV News Practice, and Radio 309—Radio-TV Advertising and Management.)

1. ORIENTATION IN JOURNALISM (2) Hortin, Staff

Analysis of the forms and purposes of journalistic communications—reporting, editing, management, advertising, radio and television news, public relations, free lance and feature writing, photo-journalism; opportunities for careers in the various sequences; guidance and counseling; survey of facilities.

103. INTRODUCTION TO NEWS WRITING (3) 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. Prereq., Eng. 4.
105. HISTORY OF AMERICAN JOURNALISM (3) Baird
A study of the development of newspaper, magazine, and radio journalism from the colonial period to the present, including political, economic, and mechanical aspects. Prereq., Eng. 4.
107. NEWSPAPER REPORTING (3) Gillespie, Baird
Instruction in methods of gathering material and writing news reports, interviews, reports of speeches, follow-ups and re-writes, human interest stories, and specialized news. Practice work covering assignments and preparing copy. Prereq., Eng. 4.
111. REPORTING PRACTICE (1 to 6) Reamer
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.
140. THE COMMUNITY NEWSPAPER (2) Hortin, Staff
The course stresses editorial and business phases of weeklies and small dailies. Problems include editing, editorial writing, and rural correspondence; school, church, and business life; circulation, advertising, job printing, and mechanical equipment. Prereq., Eng. 4.
146. TYPOGRAPHY, MECHANICS, AND MAKE-UP (3) Turnbull
Make-up in type of newspaper pages, following introduction to hand composition. Study of principles of good make-up of ads and news, including correct choice of type. Mechanics of printing reproduction studied. Fee, \$3.
217. NEWSPAPER AND MAGAZINE EDITING (3) Baird
Principles and practices of copyreading, headline writing, illustration, and make-up for newspapers, tabloids, and magazines. Other phases: picture editing, desk problems, wire and syndicate material. Prereq., 107.
221. EDITING PRACTICE (1 to 6) Webb
Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 217 or permission.
230. REVIEWING AND CRITICISM (3) Lasher
A study and analysis of books, art, drama, photography, radio, television, and other public presentations. Students write reviews and criticisms after studying outstanding examples in recognized publications. Prereq., Eng. 4.
247. NEWSPAPER ADVERTISING AND LAYOUT (3) Turnbull, Nichols
A study of the operation of the advertising department from the viewpoint of the advertising manager. Prereq., Advt. 155.
251. CONTEMPORARY THOUGHT AND DEVELOPMENTS (3) Lasher
Contributions in all phases of modern society are discussed by university faculty members and other authorities. Students are required to do reference reading and to write news reports of the discussions. Prereq., junior or senior rank.

277. NEWSPAPER ADVERTISING PRACTICE (1 to 6) Nichols
Laboratory work in preparing copy for local display advertisers of *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.
306. NEWSPAPER AND COMMUNICATIONS LAW (2) Hortin
Principles and case studies of the law of the press with emphasis on constitutional guaranties, libel, contempt, privacy, copyright, privilege, and administrative controls. Some consideration of regulations pertaining to radio and television. Prereq., 217 and senior rank.
307. REPORTING OF PUBLIC AFFAIRS (2) Hortin, Baird
This advanced course includes a study of governmental, civic, and business organizations: courts, legal procedure, city and county government, state and national organizations, banks, political parties, and community activities. Prereq., 111, or permission, and senior rank in journalism.
308. JOURNALISM ETHICS (2) Lasher
Consideration of such newspaper, magazine, television, and radio problems as news suppression, publicity, questionable advertising and business methods, and propaganda. Constructive handling of news is stressed. Prereq., 217, or Radio 280, and senior rank.
322. FEATURE AND MAGAZINE WRITING (3) Hortin, Gillespie
A study of newspaper, magazine, and pictorial features, followed by practice in writing and marketing of various types. The course includes finding subjects, securing photographs, writing articles and surveying markets. Prereq., 107, or 12 hrs. of English, or permission.
323. ADVANCED FEATURE AND MAGAZINE WRITING (2) Hortin, Gillespie
Students are permitted wide range in selecting feature subjects. High grade writing is stressed with definite idea of publication. Prereq., 322.
325. THE EDITORIAL PAGE (3) Lasher
A study of the editorial page as to purpose, style, and effect. Training is given in writing interpretative news articles, columns, and all types of editorials. Prereq., 111, or 12 hrs. of English, and senior rank, or permission.
327. PUBLIC RELATIONS TECHNIQUES (2) Hortin, Turnbull
Study and practice of fundamental public relations functions. Emphasis is placed on polling, publicity writing, and preparation of literature of business organizations—house organs, reports, pamphlets, advertisements, leaflets, manuals, and letters. Prereq., 107, 146, and junior rank, or permission.
328. PUBLIC RELATIONS (3) Hortin, Turnbull
This course deals with the study of advanced public relations problems, policies, and practices of various institutions and organizations in modern society. Attention is focused on public relations program development. Prereq., 327 or permission.
329. INDUSTRIAL AND BUSINESS JOURNALISM (2) Baird
Study of industrial, business, and institutional publications. Analysis of contents, purposes, and readership of such publications. Practice in copy preparation and make-up. Staff, costs, printing, and circulation are considered. Prereq., 111 and 146.

343. NEWSPAPER MANAGEMENT (2) Turnbull
A study of the problems and economics of publishing. Consideration is given to policy making as it affects all departments of the newspaper plant. Prereq., junior or senior rank.
348. ADVERTISING PRODUCTION (2) Turnbull
Study of mechanical, graphic, and creative methods of advertising production; comparative analysis of printing processes; relation of color, art work, type, media, and quality of paper to advertising purpose; study of cost and controls. Prereq., 247 or Advt. 332 or permission.
370. INTERNSHIP (3) The Staff
A conference course open only to students who have completed their internship work with an approved organization. Students will submit a comprehensive report involving analysis and problems encountered during the summer training. Prereq., only by permission; junior rank or above, and completion of summer internship.
375. SPECIALIZED JOURNALISM (3) The Staff
This course is designed for students desiring training in special fields—science, sports, society, politics, military, community journalism, home economics, agriculture, religious activities, teaching journalism, music, and other approved areas. Prereq., junior rank or above and permission.
381. RESEARCH IN JOURNALISM (2 to 8) The Staff
Special studies in one or more phases of journalism. Prereq., 18 hrs. in journalism and advertising, and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

LATIN—See Classical Languages

LIBRARY SCIENCE

Librarian F. N. Jones

Assistant Librarians Chutter, Dickinson, Kunkel, Linnenbruegge

Courses in Library Science under the direction of the University Librarian, in cooperation with the College of Education, provide training for students wishing to qualify as teacher-librarians under the Ohio Department of Education. Library Science 191 is also useful as a general elective for students interested in training for graduate or research work in any field of study. Students in literature or fine arts may find Library Science 194 helpful as background material.

191. HISTORY OF LIBRARIES AND THE USE OF LIBRARY RESOURCES (3) Jones, Kunkel
A survey of the development of book collections serves as an introduction to practical training in the effective use of modern library resources. Open to all students in any year. Required for a minor in library science. Offered second semester.
192. CLASSIFICATION AND CATALOGING OF BOOKS (2) Chutter, Dickinson
Training in classifying and cataloging books, with practice in the preparation of a card catalog for a high school library. Required for a minor in library science. Offered second semester.

194. HISTORY OF BOOKS AND PRINTING (3) Jones
 A survey of the development of books and printing from early times to the present. Offered first semester in alternate years only. (Offered 1954-55)

291. THE SCHOOL LIBRARY (3) Linnenbruegge
 Study of methods and materials used in organizing school library service, and developing library use among grade school pupils. Practice work and field trips. Required for a minor in library science. Offered first semester.

392. ADVANCED LIBRARY ADMINISTRATION (4) The Staff
 Individual projects under the supervision of members of the library staff, results to be discussed in periodic meetings of the class throughout the semester. Required for library science minor. Prereq., 191, or permission. Offered first semester.

393. ADMINISTRATIVE PROBLEMS IN A SCHOOL LIBRARY (3) Linnenbruegge
 Study of practical problems in planning adequate library quarters, selection of furniture and equipment, relations with faculty and with purchasing and finance offices. Offered second semester. (Offered in 1953-54 and thereafter in alternate years.) Prereq., 291.

MANAGEMENT

Professor Hellebrandt (chairman)
 Associate Professor Levinson
 Assistant Professor Davis

301-302. PRODUCTION MANAGEMENT (3) Hellebrandt
 An introduction to the more important production procedures and techniques commonly used by progressive manufacturing plants. Deals with methods of supervision used at the lower levels of management in the production field more than with the problems of policy formulation which confront the factory manager. Case and semi-laboratory method used. Prereq., Ec. 102, junior rank, or permission. Fee, \$3.

302 covers practical training in the more important types of problems encountered by executives at the level of the executive factory manager. The main objective is to develop the ability to analyze and solve problems in management control of production and in the formulation of production policies. Case method used. Prereq., 301, or permission. Fee, \$1.

308. PRODUCTION PLANNING AND CONTROL (2) Hellebrandt
 Study of forecasting, planning, authorizing, scheduling, dispatching, and controlling flow of industrial production, from receipt of customer's order to shipment of finished goods. Prereq., 302 or permission.

312. ADMINISTRATION OF PERSONNEL (3) Levinson, Davis
 A comprehensive survey in the principles of management of people in business organizations and institutions. Among the subjects treated are employee selection, training, and rating; labor turnover; job analysis; wage and salary administration. Prereq., Ec. 102.

314. PERSONNEL MANAGEMENT PROBLEMS (3) Davis
 A detailed study of personnel problems and their relation to various personnel management principles dealing with such subjects as induction and training, transfers and promotions, and morale. Case method used. Prereq., 312 or permission.

321. MOTION AND TIME STUDY (2 or 3 as scheduled) Hellebrandt
 Methods work, work simplification and time study as tools of management to develop methods of determining operating standards, production control, and wage rate determination. Prereq., 301 or Ec. 102 and permission. Fee, \$3.

325. INDUSTRIAL RELATIONS (2 or 3 as scheduled) Hellebrandt
 Objectives, establishment and procedures of collective bargaining; administration of collective bargaining agreements; labor-management cooperation; the methods of conciliation, mediation, and arbitration of disputes. Taught by case method. Prereq., Ec. 335 or Ec. 102 and permission.

332. WAGE AND SALARY ADMINISTRATION (2) Levinson, Davis
 The factors determining industrial wage and salary policies, methods of employee payments, wage relationships, wage rate setting, incentive wage plans. The techniques and methods of implementing wage and salary policies. Prereq., 302 or 312.

345. ADVANCED PRODUCTION PROBLEMS (2 or 3 as scheduled) Hellebrandt
 Case studies of production problems in a number of different industries, designed to apply to all phases of the student's training and experience. Prereq., 302, senior rank, and/or permission.

381. RESEARCH IN MANAGEMENT (2 to 8) The Staff
 Special studies in industrial organization and scientific management. Prereq., 16 hrs. economics and/or commerce including Mgt. 301 or 312, and permission.

391. SEMINAR IN MANAGEMENT (2 to 4) The Staff
 Maximum credit in course, 10 hrs. Prereq., Ec. 102, 15 hrs. management and/or economics and permission.

495. THESIS (1 to 6) The Staff
 Prereq., permission.

Additional courses: Ec. 335—Labor Economics, Ec. 338—Labor Legislation, Stat. 271—Analysis of Statistical Data, Stat. 341—Business Cycles, Stat. 345—Forecasting, and Sec. St. 285—Office Management.

MARKETING

Professor Krauskopf
 Associate Professor Paynter (chairman)

155. MARKETING PRINCIPLES (3) Krauskopf, Paynter
 The principles, methods, and policies of marketing consumers' goods and industrial goods.

258. MARKETING PROBLEMS (3) Paynter
 A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

271. PRINCIPLES OF PERSONAL SELLING (2) The Staff
 The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.

276. SALES MANAGEMENT (2) The Staff
 Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

301. RETAIL SELLING POLICIES (3) Paynter
The organization and operation of retail institutions. Prereq., 155 and Ec. 102.
302. RETAIL BUYING AND STOCK CONTROL (3) Paynter
A study of buying, receiving, and stock control practices in retail stores. Prereq., 301.
311. RECENT TRENDS IN MARKETING AND SELLING (3) Krauskopf, Paynter
Prereq., 155 and Ec. 102.
326. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter
The purchasing and selling of industrial goods. Prereq., 155 and Ec. 102.
341. FOREIGN TRADE (3) Paynter
A study of the theories of foreign trade and of the problems met by concerns engaged in importing and exporting. Prereq., Ec. 102.
346. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102.
352. PROBLEMS IN SALES MANAGEMENT (2) Krauskopf
An advanced course considering problems of sales administration and selling policies by the case method. Prereq., 258 or 271, 276, Ec. 102.
381. RESEARCH IN MARKETING (2 to 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 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

MATHEMATICS

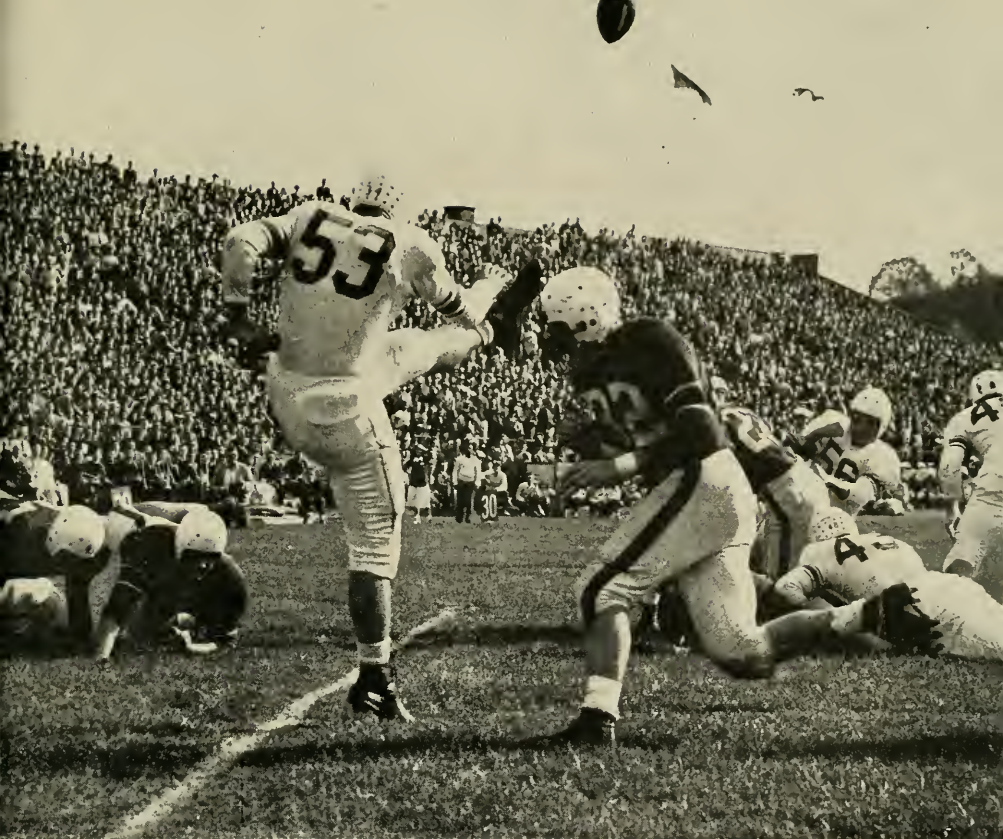
Professors Marquis (chairman),
Starcher, Denbow, Goedicke
Assistant Professors Butner, Fishback
Instructors Colberg, Verssen, J. G. Elliott, Ferner, Poole

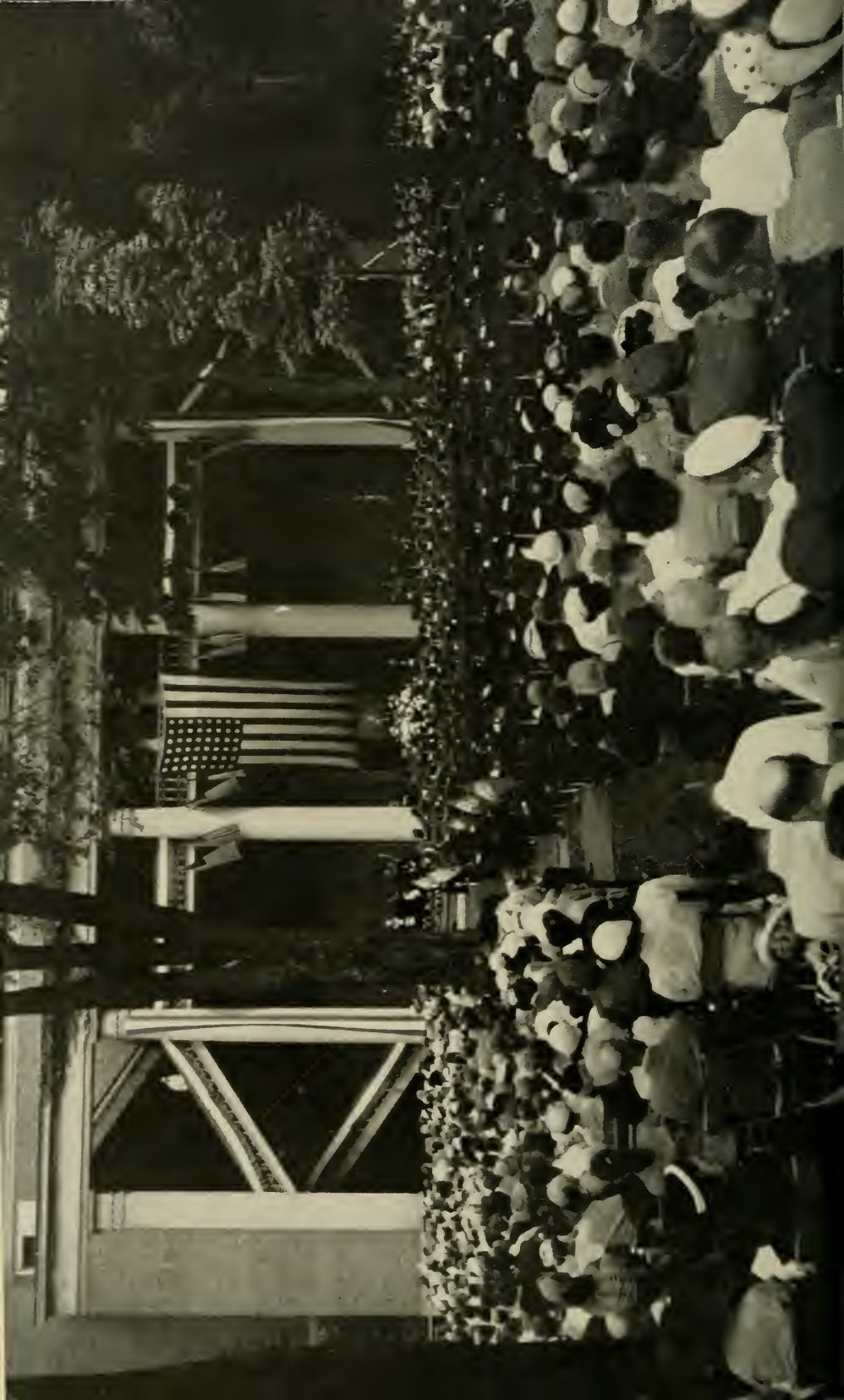
The major requirement in mathematics for the A.B. or B.S. degree is 28 hours including Math. 5, 6, 101, 102 and at least two courses numbered above 300.

The major requirement in mathematics for the B.S. in Education degree is given on page 132.

1. ELEMENTARY ALGEBRA (4) The Staff
A beginning course for students with no high school algebra.
2. PLANE GEOMETRY (4) The Staff
A course for students with no high school geometry. Prereq., 1, or 1 yr. high school algebra.

3. INTERMEDIATE ALGEBRA (5) The Staff
Review of high school algebra and some simple topics from college algebra. Prereq., 2, or 1 yr. each in geometry and algebra in high school.
5. FRESHMAN MATHEMATICS (5) The Staff
College algebra and plane trigonometry. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school.
6. FRESHMAN MATHEMATICS (5) The Staff
Progressions, the straight line, the circle, the conic sections, polar coordinates and a brief treatment of solid analytic geometry. Prereq., 5.
9. FRESHMAN MATHEMATICS (3) The Staff
Selected topics from Math. 5. Not open to students who have had Math. 5. For premedical and pre dental students; others by permission. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school.
34. MATHEMATICS OF FINANCE (3) Marquis
A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school.
101. DIFFERENTIAL CALCULUS (4) The Staff
Variables, functions, limits, differentiation and integration of algebraic forms, integration as a summation process. Problems of geometry and mechanics. Prereq., 6.
102. INTEGRAL CALCULUS (4) The Staff
Differentiation and integration of transcendental functions, polar coordinates, parametric equations, curvature, indeterminate forms, integration, series, expansion of functions, partial derivatives and multiple integrals. Prereq., 101.
104. COLLEGE GEOMETRY (3) Marquis
Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6.
107. ELEMENTARY STATISTICS (3) Goedicke
Basic theory and methods used in widely different fields. Histograms, ogives, probability, normal curve, curve fitting, sample theory; simple, multiple and partial correlation; testing statistical hypotheses. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school.
- 268m. TEACHING OF MATHEMATICS IN HIGH SCHOOLS (2 or 3 as scheduled) Denbow
(Same as Ed. 268m.) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 6 and Psych. 5.
301. THEORY OF EQUATIONS (3) Denbow
The roots of unity, roots of an equation, isolation of real roots, numerical solutions, determinants, and matrices, systems of linear equations, and symmetric functions. Prereq., 6.
304. ADVANCED CALCULUS (3) Butner
Critical treatment of certain topics in calculus. Limits, continuity, differentiation of functions of one and several variables, series, and definite and multiple integrals. Prereq., 102.
308. PROJECTIVE GEOMETRY (3) Marquis
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.





315. DIFFERENTIAL EQUATIONS (3) The Staff
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., 102.
317. INTRODUCTION TO MODERN ALGEBRA (3) Denbow
Development of the postulates of group theory, fields, rings, matrices and point sets. Prereq., 301.
318. LINE INTEGRALS AND VECTOR ANALYSIS (3) Denbow
Complex numbers, partial derivatives and applications, line integrals, potential functions and fluid flow, and vector analysis. Prereq., 102.
326. THEORY OF STATISTICS (3) Goedicke
Basic concepts of statistics treated theoretically. Advanced theory and practice, multiple and partial correlation, advanced sampling theory, and testing of statistical hypotheses. Prereq., 102 and 107.
330. FOURIER ANALYSIS (3) The Staff
Derivation of some important partial differential equations of physics; their associate boundary value problems; their solution by means of orthogonal functions. Fourier Series. Bessel's functions. Prereq., 315.
340. STUDIES IN MATHEMATICS (3) The Staff
Selected topics in mathematics will be studied under the guidance of an instructor particularly interested in the field. Prereq., 18 hrs.
- 351-352. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-3) Marquis
Prereq., 301 and 315.
495. THESIS (1 to 6) The Staff
Prereq., permission.

MECHANICAL ENGINEERING—See Engineering

MUSIC

Professors Ingerham, Ahrendt
Associate Professors Fontaine, Peterson, Glenn
Assistant Professors Kresge, Longstreet, Roach,
Blayney, Thackrey, Morley, Witzler,
Merritt, Minelli, Jennings
Instructors Brophy, Conkling, Szaroleta, Hall
Visiting Lecturer Arment

APPLIED MUSIC

Fee for all applied music (piano, voice, organ, strings, woodwind, brass, percussion), \$20 a semester hour. Practice room fee, \$3 a semester hour, except organ which is \$10 a semester hour.

(Note: A description of the proficiency requirements for applied music may be secured from the School of Music.)

- VOICE (1 to 3) Peterson, Roach, Merritt
Prereq., permission.

- PIANO (1 to 3) Fontaine, Kresge, Longstreet, Jennings, Szaroleta
Prereq., permission.
- ORGAN (1) Kresge
Prereq., permission.
- STRINGED INSTRUMENTS: Violin, Viola, Violincello, Bass (1 to 3)
Ingerham, Conkling
Prereq., permission.
- WOODWIND INSTRUMENT: Flute, Oboe, Clarinet, Bassoon (1 to 3) Witzler
Prereq., permission.
- BRASS INSTRUMENTS: Trumpet, Baritone, Horn, Trombone, Tuba (1 to 3)
Thackrey, Minelli
Prereq., permission.
- PERCUSSION INSTRUMENTS (1 to 3) Minelli
Prereq., permission.
- UNIVERSITY BANDS (1) Minelli, Brophy
Open to men and women students. Prereq., permission.
- UNIVERSITY CHORUS (1) Ahrendt
Open to men and women students. Prereq., permission.
- UNIVERSITY SYMPHONY ORCHESTRA (1) Ahrendt
Open to men and women students. Prereq., permission.
- MEN'S GLEE CLUB (1) Peterson
Open to men students. Prereq., permission.
- WOMEN'S GLEE CLUB (1) Merritt
Open to women students. Prereq., permission.
- 251-252.—CHAMBER MUSIC (1-1) The Staff
Participation in the playing of the standard chamber music literature. Prereq., permission. Maximum credit in course 6 hrs.
- 266p. CLASS PIANO (1) Blayney
(Same as Ed. 266p). Prereq., permission.
273. CONDUCTING (2) Ingerham
Fundamentals of conducting, accompanied by individual practice in conducting. For music majors only; open to others by permission. Prereq., 104 and 106.
- 331-332. PIANO ENSEMBLE (1-1) The Staff
Participation in the playing of original works or arrangements for two pianos. Prereq., permission.
375. ADVANCED CONDUCTING (1 to 4) The Staff
An opportunity for study and practical experience in either choral or instrumental conducting. Maximum credit in course, 6 hrs. Prereq., 104, 106, 273, and permission.
431. VOICE (2 to 4) Merritt, Peterson, Roach
Maximum credit in course, 16 hrs. Prereq., permission.
433. PIANO (2 to 4) Fontaine, Szaroleta, Jennings, Longstreet
Maximum credit in course, 16 hrs. Prereq., permission.
435. ENSEMBLE (2 to 4) The Staff
Maximum credit in course, 16 hrs. Prereq., permission.

437. STRINGED INSTRUMENTS (2 to 4) Ingerham, Conkling
Maximum credit in course, 16 hrs. Prereq., permission.
439. WOODWIND INSTRUMENTS (2 to 4) Witzler
Maximum credit in course, 16 hrs. Prereq., permission.
441. BRASS INSTRUMENTS (2 to 4) Brophy, Minelli, Thackrey
Maximum credit in course, 16 hrs. Prereq., permission.
443. PERCUSSION INSTRUMENTS (1 or 2) Minelli
Maximum credit in course, 8 hrs. Prereq., permission.
495. RECITAL (4) The Staff
A full-length public recital, a recording of which will be filed in the library, in lieu of a thesis. Prereq., permission. Fee charged by Radio Department based on length and type of program.

MUSIC HISTORY AND LITERATURE

5. MUSIC APPRECIATION (2) Arment
A study of the form and meaning of musical masterpieces. Not open to music majors or those who have received credit for F.A. 123-124.
231. BACKGROUND FOR MUSIC CRITICISM (2) Fontaine
For journalism students; open to others by permission. Designed to prepare the student for reporting music programs.
337. THE LITERATURE OF VOCAL MUSIC (2) Peterson
A survey of representative literature from the fields of oratorio, choral music, and the art song. Prereq., F.A. 124.
338. THE LITERATURE OF ORCHESTRAL MUSIC (2) Ingerham
The development of orchestral literature from the classic through the contemporary. Prereq., F.A. 124.
339. THE EVOLUTION OF THE OPERA (2) Roach
Prereq., F.A. 124.
340. THE LITERATURE OF PIANO MUSIC (2) Fontaine
A comprehensive study of the development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F.A. 124.
- 401-402. MUSIC LITERATURE (3-3) Arment
A survey of the literature of music with emphasis on style, form and content. Prereq., F.A. 124 and permission.
495. THESIS (1 to 6) The Staff
Prereq., permission.

THEORY AND COMPOSITION

- 3-4. THEORY (3-3) Hall
A beginning study of the melodic, harmonic, and rhythmic principles of music and its notation. The approach is through correlated hearing, singing, writing, and playing. 5 hrs. a week.
- 103-104. DICTATION AND SIGHT SINGING (2-2) Hall
Advanced melodic and harmonic dictation. Should be taken concurrently with 105-106. 3 hrs. a week. Prereq., 4 with a minimum grade of C.

- 105-106. HARMONY (3-3) Hall
Harmonization of melodies and figured basses, both written and at the keyboard. Improvisation, transposition. 4 hrs. a week. Prereq. 4.
- 201-202. ANALYSIS AND FORM (2-2) Fontaine
Harmonic and structural analysis of music composition. Prereq., 106.
233. INSTRUMENTATION (3) Minelli
A study of the various orchestral instruments from the standpoint of their range and orchestral uses. Arranging for small ensembles. 3 hrs. a week and participation in Instrumental Workshop. Prereq., 106.
- 307-308. ARRANGING AND SCORING FOR BANDS (2-2) Minelli
Scoring and arranging for the modern marching and symphonic band. Prereq., 104, 106, and 233.
- 313-314. ORCHESTRATION (2-2) Ahrendt
Scoring for small, medium, and full orchestra. Prereq., 104 and 106.
- 315-316. ADVANCED HARMONY (2-2) Kresge
A study of the evolution of harmony to the present, including the new methods of chord structure in modern harmony. Prereq., 104 and 106.
- 317-318. COUNTERPOINT (2-2) Fontaine
Single counterpoint in all species in two, three, or four parts. Development of motive, double counterpoint, free writing on original themes. Prereq., 104 and 106.
- 319-320. COMPOSITION (2-2) Ahrendt
Original writing in the smaller forms. Prereq., 104 and 106.
- 357-358. COUNTERPOINT (2-2) Fontaine
Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Prereq., 318.
- 371-372. COMPOSITION (2-2) Ahrendt
Original writing in the larger forms. Prereq., 320.
384. RESEARCH IN MUSIC (2 to 4) The Staff
A project course in which the student selects, under the guidance of the instructor, subjects for special investigation. Prereq., 30 hrs., or the equivalent, and 12 hrs. English.
- 409-410. CANON AND FUGUE (2-2) 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., 358 and permission.
- 425-426. COMPOSITION (2-2) Ahrendt
Extensive writing in the larger vocal and instrumental forms. Prereq., 372.
- 427-428. ADVANCED ORCHESTRATION (2-2) Ahrendt
Problems in scoring original works for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Prereq., 314 and 318.
429. SIXTEENTH CENTURY COUNTERPOINT (2) Fontaine
A detailed study of the techniques of the period, particularly as evidenced in the works of Palestrina and Lassus. Original writing in the sixteenth century modal style. Prereq., 318 and permission.

495. THESIS (1 to 6) The Staff
Prereq., permission.

MUSIC EDUCATION

71. INTRODUCTION TO MUSIC FOR ELEMENTARY TEACHERS (2)
Glenn, Thackrey
An orientation course to meet the needs of the classroom teacher in elementary education.
72. MUSIC FUNDAMENTALS (2) Blayney
A course for elementary teachers involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week. Prereq., 71.
160. INTRODUCTION TO MUSIC EDUCATION (2) Glenn
A basic course in education for music education majors.
261. STRING TECHNIQUES AND MATERIALS (2) Conkling
5 hrs. a week. Prereq., 160. Fee, \$2.
- 263-264. WIND AND PERCUSSION TECHNIQUES AND MATERIALS (2-2)
The Staff
5 hrs. a week. Prereq., 160. Fee, \$2 a semester.
265. VOCAL TECHNIQUES AND MATERIALS (2) Blayney
Prereq., 160.
- 266e. TEACHING OF MUSIC IN ELEMENTARY GRADES (2) Blayney, Morley
(Same as Ed. 266e) Music material and methods for elementary teachers. Prereq. 72.
- 266f. SUPERVISION OF MUSIC IN THE ELEMENTARY SCHOOL (3) Blayney
(Same as Ed. 266f) A study of modern trends and how they may be applied to the teaching of music in the elementary grades. Prereq., 160, with Ed. 283 or 284.
- 266j. MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL (3) Glenn
(Same as Ed. 266j) The organization, techniques and procedures of teaching music in the junior and senior high school. Prereq., 160, with Ed. 283 or 284.
276. MUSIC WORKSHOP (1 to 3) The Staff
Maximum credit in the course, 4 hrs.
a. Elementary Music Workshop (Summer only). Fee, \$4.50.
b. Elementary Music Workshop (Extension only).
376. MUSIC CLINIC-WORKSHOP (2 to 4) The Staff
Maximum credit in course, 6 hrs.
a. Music Clinic-Workshop (Summer only). Fee, \$4.
b. Opera Workshop (Summer only). Fee, \$3.
470. CONTEMPORARY TRENDS IN MUSIC EDUCATION (2) Glenn
Prereq., 266j, and permission.
471. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC (2) Glenn
Investigation of problems connected with teaching and supervision of vocal music encountered during service. 2 lec., lab as required. Prereq., 265, 266f, 266j, 2 hrs. observation, and 4 hrs. student teaching.

472. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC

(3) Minelli

Investigation of the problems connected with teaching and the supervision of instrumental music encountered during service. 2 lec., lab as required. Prereq., 261, 264, 2 hrs. observation, and 4 hrs. student teaching.

473. EXPERIMENTAL STUDIES IN MUSIC

(3) Glenn

A survey of important psychological investigations bearing upon musical composition, performance and appreciation. Prereq., 30 hrs., and Psych. 1 and 5.

495. THESIS

(1 to 6) The Staff

Prereq., permission.

MUSIC THERAPY

377. BACKGROUND OF MUSIC THERAPY

(3) The Staff

The history of the use of music in mental hospitals and clinics; present trends; state and private hospital programs. Prereq., 30 hrs. of music, 9 hrs. of psychology or equivalent; special permission. Fee, \$3.

379. MUSIC THERAPY

(2 to 6) The Staff

A workshop course in methods, materials and procedures of conducting a music therapy program in hospitals and clinics. Prereq., 377, or by special permission. Fee, \$12.

PAINTING—See Art

PHILOSOPHY

Professors Gamertsfelder, Houf (chairman)
Assistant Professor Murphree
Instructor Pinsky

Courses in philosophy and religion are open to students throughout the University. They may be taken as electives; or for either a major or a minor in the College of Arts and Sciences. For the undergraduate major in philosophy a minimum of 18 hours in courses numbered above 100 in the department is required, including 103, 117 or 209, 302, and at least two hours in the study of religion or the Bible. To meet the humanities requirement, students in University College may take Philosophy 1 and Philosophy 2; upperclassmen should take courses numbered above 100.

1. PRINCIPLES OF REASONING

(3) Gamertsfelder, Murphree

A "general education" course which considers the methods by which dependable knowledge is achieved in the natural sciences and social studies, with attention to the common psychological and logical errors.

2. LIFE'S MEANING

(3) Houf, Murphree

Ethical problems of living are considered. Moral philosophies are compared. Against present scientific and social background, the course aims to help form a personal philosophy on a broad cultural basis.

81. PROBLEMS OF RELIGION

(1 or 2 as scheduled) The Staff

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 or 2 as scheduled) 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.
101. INTRODUCTION TO NEW TESTAMENT THOUGHT (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.
102. 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, devotional writings, and the Messianic hope.
103. INTRODUCTION TO PHILOSOPHY (2 or 3 as scheduled) Gamertsfelder
 A study of principles and meanings as found in the sciences, morals, religion, and art, for the purpose of formulating out of these basal ideas a satisfactory philosophy of life.
107. THE WORLD'S GREAT RELIGIONS (2 or 3 as scheduled) Houf
 A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the living religions of the world, including both the Orient and the Occident.
117. SOCIAL AND POLITICAL PHILOSOPHY (2 or 3 as scheduled) Murphree
 An analysis of basic types of social and political philosophies, classical and modern, including the philosophical backgrounds of American democracy and the United Nations.
201. GENERAL ETHICS (3) The Staff
 The importance of morals in society; the origin and growth of moral ideals; theories of right and wrong; and a constructive treatment of present-day problems in personal and social morality.
209. LOGIC AND SCIENTIFIC METHOD (2 or 3 as scheduled) Pinsky
 Language, symbols, and reasoning by means of propositions; the spirit, methods, and principles of the sciences; the organization of knowledge, and the criteria of truth; the formal and material fallacies.
213. AMERICAN PHILOSOPHY (2 or 3 as scheduled) The Staff
 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.
301. HISTORY OF IDEAS: ANCIENT AND MEDIEVAL (3) Gamertsfelder
 The ideas and systems of thought which developed in the context of natural science, government, morals, religion, and art, and which were embodied in the changing culture of the West. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in a social science, or 3 hrs. and 12 hrs. English.
302. HISTORY OF IDEAS: MODERN (3) Gamertsfelder
 The ideas of modern thinkers in relation to the changing elements of Western culture, with attention to the Renaissance, the Enlightenment, empiricism, rationalism, idealism, materialism, Marxism, positivism, realism, and pragmatism. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in a social science, or 3 hrs. and 12 hrs. English.
304. ADVANCED SOCIAL PHILOSOPHY (2 or 3 as scheduled) Murphree
 The philosophy of social institutions and social programs. The competing political philosophies, 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 a social science.

306. CONTEMPORARY THOUGHT (2) Gamertsfelder, Pinsky
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.
308. THE HISTORY AND MEANING OF SCIENCE (2 or 3 as scheduled) Pinsky
This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture, present and past. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science.
309. PHILOSOPHY OF RELIGION (3) Houf
The meaning of religion; 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.
310. MINOR STUDIES IN PHILOSOPHY (1 to 3) The Staff
A critical study of selected areas or types of philosophy, or an investigation of important movements. Subjects such as aesthetics, philosophy of history, semantics, recent European philosophy. Oriental philosophy, metaphysics. Maximum credit in course, 12 hrs. Prereq., 6 hrs.
491. SEMINAR IN PHILOSOPHY (2 or 3 as scheduled) The Staff
Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Maximum credit in course, 6 hrs. Prereq., 15 hrs.
495. THESIS (1 to 6) The Staff
Prereq., permission.

PHOTOGRAPHY

Visiting Lecturers White, Truxell, Allen

Without special permission no student may register for more than eight hours in photography during a single semester.

- 77-78. BASIC PHOTOGRAPHY (3-3) Allen
A study of the basic practices and principles of photography. 1 lec. and 4 lab. Fee, \$2 a semester.
133. NEWS PHOTOGRAPHY (2) Truxell
A basic knowledge of news photography. Study of the newspaper engraving process and of newspaper law, libel and ethics applied to photography. 1 lec. and 2 lab. Prereq., 78. Fee, \$3.
- 143-144. PHOTOGRAPHIC PROCESSES (3-3) White
History of photographic processes, photographic optics, photochemistry, sensitometry, photographic printing processes, and mechanical reproduction methods. 3 lec. Prereq., 78.
145. WORKSHOP IN PHOTOGRAPHY (3) Allen
Individual practice in basic problems of photographic design and technique. Maximum credit in course, 6 hrs. 6 lab. Prereq., 78. Fee, \$3.
- 277-278. PORTRAITURE (3-3) Truxell
The photography of people, in the studio and on location, individually and in groups, formally and informally, including an approach to fashion. 2 lec. and 4 lab. Prereq., 144 and 145. Fee, \$5 a semester.

379-380. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY (5-5) White

Studio and location work in commercial, advertising, industrial, and architectural photography. Introduction to problems of studio operation and free-lance photography. 2 lec. and 8 lab. Prereq., 278 or permission. Fee, \$5 a semester.

381. ADVANCED WORKSHOP IN PHOTOGRAPHY (3) Truxell, Allen

(1) Individual selection of approved problems; or, (2) introduction to picture stories for publication and magazine free-lance photography; or, (3) introduction to the motion picture—16 mm. production work including scripting and editing. Maximum credit in course, 6 hrs., 6 lab. Prereq., 278 or permission. Fee, \$3 a semester.

391-392. COLOR PHOTOGRAPHY (3-3) White

Theory of color photography, practice with color transparency materials, direct separations, separation of transparencies, masking, and dye transfer printing. 6 lab. Prereq., 144 and 278 or 380 and permission. Fee, \$6 a semester.

481. RESEARCH IN PHOTOGRAPHY (1 to 4) The Staff

Special projects in photographic technique and practice. Maximum credit in course, 8 hrs. Prereq., 20 hrs. including 381 and permission.

495. THESIS (1 to 6) The Staff

Prereq., permission.

PHYSICAL EDUCATION AND ATHLETICS

Associate Professors Hatcher, Trautwein,
LaTourrette, Trepp, Nessley, Rhoads, Widdoes
Assistant Professors Blosser, Johnson, Wren, Snyder
Instructors Richey, McKemie, O. L. Thomas, Joyce,
Heffelfinger, Manuel, Schleicher
Acting Instructor Brookey

WIDDOES, director of the Division and head football coach; TRAUTWEIN, associate director and business manager of intercollegiate athletics; NESSLEY, assistant director in charge of physical education program; HATCHER, chairman, women's department; TREPP, chairman, major curriculum for men; LATOURRETTE, recreation; RHOADS, intramural athletics, men; MCKEMIE, intramural sports, women; JOHNSON, head track coach, athletic ticket manager; BLOSSER, golf coach, assistant in football and basketball; WREN, head baseball coach; HEFFELFINGER, head line coach in football; JOYCE, modern dance; SNYDER, head basketball coach, assistant in football; RICHEY, freshman football and baseball; MANUEL, aquatics, for women; THOMAS, swimming coach and aquatics, men; SCHLEICHER, athletic trainer, wrestling coach; BROOKEY, supervising critic, Putnam school.

SERVICE COURSES

The physical education program is designed for the diversified interests and abilities of men and women in the University. Students may elect freely from those courses which appeal to them yet avoid repetition of one sport or activity for the entire fulfillment of their physical education requirement.

The asterisk (*) indicates those courses which may be repeated *once*. No student may use more than two credit hours in the same sport or activity toward a degree requirement.

For a detailed statement of the university requirement in physical education refer to page 69.

NOTE: No student will be assessed more than two laboratory fees (a maximum of \$5) in one semester regardless of the number of P. E. courses taken in that semester.

MEN

- 1, 2. SEASONAL SPORTS (1, 1) Blosser and Staff
 Instruction and guidance in sports adaptable to team and league play. P.E. 1—Touch football, soccer, basketball, handball. P.E. 2—Volleyball, handball, speedball, softball. Activities change with the seasons and weather conditions. 3 hrs. a week. Fee, \$2.50 a semester.
11. VOLLEYBALL, HANDBALL, BADMINTON (1) Nessley
 Students may rotate activities during the semester. 3 hrs. a week. Fee, \$2.50.
19. GYMNASTICS (1) Trepp
 Instruction and practice in tumbling skills, stunts, apparatus, pyramids, and trampoline. 3 hrs. a week. Fee, \$2.50.
21. WRESTLING* (1) Sleicher
 For those who wish to learn wrestling, develop additional skill, or train for the varsity squad. Daily for half a semester. Fee, \$2.50.
23. TRACK AND CROSS COUNTRY* (1) Johnson
 Coaching and practice in track and field events and training for varsity track squads. Daily for half a semester. Fee, \$2.50.
24. TOUCH FOOTBALL AND SOCCER (1) Richey and Staff
 Instruction and guidance in team and league play. Daily for half a semester. Fee, \$2.50.
25. FOOTBALL* (1) Widdoes and Staff
 Varsity and freshman squads. Daily for half a semester. Fee, \$2.50.
27. BASEBALL* (1) Wren
 Coaching and practice in skills, strategy, play making and rules for selected prospective members of varsity squads. Two double periods a week for half a semester. Prereq., permission. Fee, \$2.50.
29. BASKETBALL* (1) Snyder
 Coaching and practice in skills, plays, techniques and strategy for selected prospective members of varsity squads. Two double periods a week. Prereq., permission. Fee, \$2.50.
31. SWIMMING* (1) Thomas and Staff
 Coaching and practice in standardized swimming meet events for selected prospective members of the varsity or junior varsity squads. Daily for half a semester. Fee, \$2.50.
33. HANDBALL (1) Trautwein and Staff
 Instruction and practice in skills, court strategy, and rules of the four-wall game. 3 hrs. a week. Fee, \$2.50.
39. DIVING FUNDAMENTALS (1) Thomas
 Instruction and practice in springboard skills and the basic dives from each of the five diving groups. 3 hrs. a week. Fee, \$2.50.

*May be repeated but once for degree requirement.

MEN—WOMEN

3. BEGINNING SWIMMING (1) Manuel, Thomas, and Staff
For students who are unable to take care of themselves in deep water; orientation to water, skills, safety, elementary strokes and forms of diving. 3 hrs. a week. Fee, \$2.50.
4. INTERMEDIATE SWIMMING* (1) Manuel, Thomas and Staff
For students who have passed a beginner's swimming test or can swim; instruction and practice in the basic strokes, plain and surface diving. Prereq., 3 or equivalent. 3 hrs. a week. Fee, \$2.50.
5. ADVANCED SWIMMING (1) Manuel, Thomas and Staff
For those who have passed the Red Cross Swimmer's Test or its equivalent. The analysis and skills of diving, the recognized strokes and their variations, and fundamentals of competitive swimming. Prereq., 4 or permission. 3 hrs. a week. Fee, \$2.50.
7. BEGINNING MODERN DANCE (1) Joyce
Fundamentals of movement technique and introduction to the concept of movement in relation to time, space, and dynamics. 3 hrs. a week. Fee, \$2.50.
8. INTERMEDIATE MODERN DANCE* (1) Joyce
Further studies in technique and dance forms. Prereq., 7 or previous dance training. 3 hrs. a week. Fee, \$2.50.
- 9, 10. ADAPTED ACTIVITIES* (1, 1) Trepp, McKemie
Students whose physical activities should be restricted are assigned to those activities adapted to their special needs. 3 hrs. a week. Prereq., medical permission. Fee, \$2.50 a semester.
- 15, 16. FOLK AND NATIONAL DANCING (1, 1) Hatcher, McKemie
The ability to dance in time with music is stressed. American square dances and European dances based on the schottische, polka, and waltz are taught. Sixteen is a continuation of 15, using dances which involve more difficult steps. 3 hrs. a week. Fee, \$2.50 a semester.
17. BEGINNING TENNIS (1) Richey, McKemie
A concentrated course for students who wish to learn or improve skills, fundamentals of play, court strategy and rules. Daily for half a semester. Fee, \$2.50.
18. INTERMEDIATE TENNIS* (1) Richey, McKemie
A continuation of 17 with emphasis on fundamentals of play and court strategy. Prereq., 17 or playing experience. Daily for half a semester. Fee, \$2.50.
37. FENCING (1) Nessley
Instruction and practice in foil fencing. 3 hrs. a week. Fee, \$2.50.
41. BEGINNING GOLF (1) Blosser and Staff
A concentrated course for those who wish to learn grips, strokes, stance and other techniques necessary to start playing golf. Daily for half a semester. Fee, \$2.50.
42. INTERMEDIATE GOLF* (1) Blosser and Staff
Instruction and practice in playing golf. Prereq., 41. Daily for half a semester. Fee, \$2.50.

*May be repeated but once for degree requirement.

45. BEGINNING BOWLING (1) Richey and Staff
Instruction and practice in skills, etiquette, rules and scoring. Daily for half a semester. Fee, \$2.50 plus \$10 pin fee.

115-116. ADVANCED MODERN DANCE* (1, 1) Joyce
The more complex coordinations and movement studies. Further study in rhythmic, spatial and dynamic elements of dance. Experimentation in form and composition. 3 hrs. a week. Prereq., permission. Fee, \$2.50 a semester.

118. LIFE SAVING AND WATER SAFETY (1) Thomas, Manuel and Staff
Techniques included in the test for American Red Cross Senior Life Saving certificate are covered. 3 hrs. a week. Prereq., 5 or permission. Fee, \$2.50.

120. INSTRUCTOR'S LIFE SAVING AND WATER SAFETY (1) Thomas, Manuel and Staff
For those who have been certified as American Red Cross Senior Life Savers and wish to do advanced work in the skills and teaching technique of water activity. 3 hrs. a week. Prereq., 118. Fee, \$2.50.

WOMEN

Course numbers 1 through 131 will satisfy the physical education requirement of four hours for graduation.

1, 2. SPORTS (1, 1) The Staff
Students choose from field hockey, soccer, basketball, volleyball, baseball and badminton according to seasons. This course may be repeated if a different sport is taken. 3 hours a week. Fee, \$2.50 a semester.

6. ELEMENTARY TAP DANCING (1) The Staff
A course designed for beginners. 3 hrs. a week. Fee, \$2.50.

112. SYNCHRONIZED SWIMMING (1) Manuel
Dealing with fundamental rhythmic patterns and stunts necessary in creating routines for synchronized swimming. Prereq., 5 or permission. 3 hrs. a week. Fee, \$2.50.

113. HIKING (1) LaTourrette
Hikes are varied as to distance and places visited. First aid and rules of the road for hikers and practice in leading hikes are included. 3 hrs. a week. Fee, \$2.50.

114. CAMP CRAFT (1) LaTourrette
An activity course giving experience in firebuilding, outdoor cooking and lashing temporary camp equipment. One overnight hike is required. 3 hrs. a week. Fee, \$2.50.

131. MASS GAMES (1) McKemie
Games for primary and intermediate grades. Emphasis is placed on program planning and training of children to assume leadership. Required of majors; recommended for students in elementary education and for recreational leaders. 3 hrs. a week. Fee, \$2.50.

137, 138. CHOREOGRAPHY (1 or 2) Joyce
Studies and experimentation in dance composition. Prereq., permission. Fee, \$2.50 a semester.

*May be repeated but once for degree requirement.

PROFESSIONAL COURSES FOR THE MAJOR OR MINOR

Refer to curricula in Health Education, Physical Education and Recreation pages 135, 140, and 142.

Note: No student will be assessed more than two laboratory fees (a maximum of \$5.00) in one semester regardless of the number of P.E. courses taken in that semester.

MEN

65, 66. PROGRAM SKILLS (2, 2) Rhoads, Johnson, Thomas

P.E. 65: Theory and practice of touch football, soccer, speedball, tumbling, stunts and apparatus, a battery of physical proficiency tests and officiating practice.

P.E. 66: Swimming, marching and conditioning exercises, volleyball, tennis, softball and officiating practice.

6 hrs. a week. Fee, \$2.50 a semester.

121. PROGRAM SKILLS (2) Trepp

Selected rhythmical activities; archery, handball, badminton, horse shoes, table tennis; relays and mass games suitable for the elementary school program. Prereq., 65 or 66. 6 hrs. a week. Fee, \$2.50.

122. PROGRAM SKILLS (2) Blosser, Nessley

Boxing, wrestling, fencing, golf; relays and mass games suitable for the secondary school program. Prereq., 65 or 66. 6 hrs. a week. Fee, \$2.50.

135. PROGRAM TECHNIQUES (1) Trepp and Staff

Designed to give majors practical experience in the organization, teaching and management of activity classes. Students are supervised by staff members. 3 hrs. a week.

139. ATHLETIC OFFICIATING (2) Rhoads

A study of the rules, mechanics and procedures for the officiating of football and basketball; State certification upon successful completion of the course.

181. INTRAMURAL SPORTS (2) Rhoads

Current practices, ideas and methods of organizing and administering a program of intramural sports at all age levels.

267e, 267f. ATHLETIC COACHING (1 to 3), (1 to 3) Widdoes and Staff

(Same as Ed. 267e and f). (e—basketball, baseball; f— football, track). Instruction and practice in the gymnasium and on the field; readings, discussions, reports and moving pictures of actual cases, theories, systems of play, problems relative to athletic coaching and interscholastic and intercollegiate competition. Prereq., junior or senior rank. Fee, \$2.50 a semester.

MEN—WOMEN

102. PERSONAL AND COMMUNITY HEALTH (3) Hatcher, 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.

127. FIRST AID (2) LaTourrette

Application of the principles and practice of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.

128. PHYSICAL THERAPY (2) Schleicher
Theory and practice of physical therapy and the treatment of athletic injuries. Prereq., Zool. 133.
- 133, 134. ANATOMY, KINESIOLOGY AND PHYSIOLOGY (4, 4) Rowles, Trepp
For course description, see Zoology.
150. RECREATION (3) LaTourrette
A review of the theory of play, recreation and group work. Students organize parties and square dances and do handcraft. Programs are planned for the community and institutional groups. Fee, \$2.50.
153. NATURE AND FUNCTION OF PLAY (2) Rhoads
The historical background, theory, need and administration of play, emphasizing play programs for schools, recreation centers, camps and clubs.
233. THEORY OF ADAPTED ACTIVITIES (2) Trepp, McKemie
The organization of reconstructive programs adapted to the needs of physically handicapped individuals. Conditions such as postural defects, cardiac defects, post operative cases, etc., are described and therapeutic exercises and suitable sports evaluated. Prereq., Zool. 133.
- 267h. TEACHING OF HEALTH (3) Trepp
(Same as Ed. 267h) Instruction, principles and curricula used in presenting health information to pupils in the elementary and secondary schools. Prereq., 102.
- 267p. TEACHING OF PHYSICAL EDUCATION (1) Brookey
(Same as Ed. 267p) Objectives, organization and program suggestions for physical education in the elementary and secondary school.
- 267s. TEACHING OF SWIMMING (2) Manuel, Thomas
(Same as Ed. 267s) Methods and practice in the teaching of swimming. Prereq., 118. Fee, \$2.50.
304. HISTORY AND PRINCIPLES (3) Hatcher, Rhoads
Systems of physical education from the time of the Greeks and their effects on our present program; the principles underlying physical education in the modern program of education. Prereq., Zool. 133, and 134 or with 134.
306. ORGANIZATION AND ADMINISTRATION (2) Hatcher, Nessley
Readings and discussions about typical methods of organizing and administering physical education, school and community health, recreation and athletics in elementary and secondary schools, private schools and colleges. Prereq., junior or senior rank.
309. TESTS AND MEASUREMENTS (3) Nessley
A study of available tests and measurements for health education, physical education and athletics, to determine their place, use and possibilities in the program; practice in handling testing data by elementary statistical methods. Prereq., 10 hrs. and senior or graduate rank.
349. COMMUNITY RECREATION (3) Nessley
For those interested in guiding leisure time programs. Topics include: brief history of the play movement, programs and program building, general administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs. and senior or graduate rank

352. PHYSICAL DIAGNOSIS (3) Hudson and Staff

A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development and the techniques in conducting health examinations, clinical service, etc. Prereq., 15 hrs. and senior or graduate rank.

353. CLINICAL OBSERVATION AND PRACTICE IN PHYSICAL MEDICINE AND REHABILITATION (3) V. A. Hospital Staff

A concentrated three-week summer school field course at Veterans Administration Hospital, Chillicothe, Ohio. Instruction by hospital corrective therapy staff. Open to senior majors or graduate students in physical education. May be taken alone or in conjunction with one or more concentrated courses on the campus at Athens. Prereq., Zool. 133-134.

395. SCHOOL HEALTH PROBLEMS (3) Trepp

A study of the principles, problems, organization and administration of school health programs, including school and community relationships. Prereq., 10 hrs. senior or graduate rank.

491. SEMINAR IN PHYSICAL EDUCATION AND ATHLETICS (3) Nessley and Staff

For graduate students who wish to do research and investigation in health education, physical education, recreation or athletics. Topics and problems suitable for thesis writing, trends of the program, methods of research, writing practice and critical analysis of outlines for research study. Prereq., 24 hrs.

495. THESIS (1 to 6) The Staff

Prereq., permission.

WOMEN

121, 122. PROGRAM SKILLS (2, 2) The Staff

Theory and practice of individual sports techniques, folk dancing, fundamental gymnastics, tumbling and stunts. Fee, \$2.50 a semester.

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. CAMP LEADERSHIP (2) LaTourrette

Emphasis is placed upon the responsibilities of counselors and methods of program planning. Assistance with the campercraft class provides practical leadership experiences. (Offered in alternate years.)

267a. COACHING METHODS (2) Hatcher, LaTourrette

(Same as Ed. 267a) Theory and practice of coaching field hockey, soccer, and basketball. Prereq., playing experience in the sports.

267b. COACHING METHODS (2) LaTourrette

(Same as Ed. 267b) Theory and practice of coaching volleyball, baseball, track and field activities. Prereq., playing experience in the sports.

267n, 267o. TEACHING OF RHYTHMIC ACTIVITIES (1, 1) Hatcher, Joyce

(Same as Ed. 267n and o) Methods of teaching folk, ballroom and modern dancing. Prereq., 15 or 122 and 8. Fee, \$2.50 a semester. (Offered in alternate years.)

PHYSICS

Professor Edwards (chairman)
 Associate Professors McClure, Pierce, Randall
 Assistant Professor T. S. Smith
 Instructor Shipman

The requirement for the A.B. degree with a major in physics is a minimum of 24 semester hours including 113, 114 and at least 12 hours in courses numbered 300 or above and Math. 5, 6, 101, and 102.

The requirement for the B.S. degree with a major in physics is a minimum of 36 semester hours. This must include 113, 114 and 215, a minimum of 4 semester hours in advanced laboratory courses (325 to 330 inclusive), and at least 20 hours in courses numbered above 300. Mathematics courses through integral calculus are also required.

Students preparing for positions in industrial or atomic energy laboratories should register for additional advanced laboratory courses. A complete curriculum for such students is given on page 106.

Freshman physics majors are advised to take Math. 5-6 and Chem. 1-2 or 3-4.

3, 4. THE PHYSICAL WORLD (3, 3) The Staff

(See "General Studies," page 229.)

5, 6. INTRODUCTION TO PHYSICS (4, 4) Edwards, Shipman

Basic principles of mechanics, heat, sound, electricity, magnetism, structure of atoms, light. Designed for nontechnical and premedical students. 3 lec. and 2 lab. Fee, \$5 a semester.

113, 114. GENERAL PHYSICS (4, 4) McClure, Randall, Shipman

Lectures, demonstrations, recitations and laboratory. Fundamental principles and basic laws of mechanics, heat, sound, electricity, magnetism, light, atomic structure. For engineering, mathematics, physics, and chemistry students. 3 lec. and 2 lab. Prereq., Math. 6. Fee, \$5 a semester.

215. SOUND (2) Pierce

Wave motion and equations representing it; vibration of strings, bars, and air columns; musical scales; interference, beats, and combination tones; hearing; architectural acoustics. Prereq., 5 or 113 and Math. 6. Offered 1st sem., 1954-55 and 2nd sem., 1955-56.

219, 220. ELECTRICITY AND MAGNETISM (3, 3) McClure

An advanced course including electrochemical properties, the calculation of magnetic fields by integration methods, a study of transient currents through inductive and capacitive circuits, Maxwell's equations. Prereq., 113, 114, and Math. 102. 219 offered 1st sem., 1954-55. 220 offered 2nd sem., 1954-55.

268s. TEACHING OF PHYSICAL SCIENCES (2) Pierce

(Same as Ed. 268s) Objectives, materials, methods, evaluation. Prereq., 8 hrs. in physics or chemistry. Offered 2nd sem., 1954-55.

305. LIGHT: INTRODUCTION TO PHYSICAL OPTICS (3) Randall

Laws of geometric optics, theory of interference, diffraction, polarimetry, electromagnetic waves, dispersion, double refraction and other selected topics. Experimental basis of concepts is emphasized. Prereq., 114 and Math. 102. Offered 2nd sem., 1954-55.

308. X-RAYS (2) Smith

Principles and applications of X-rays to physics, medicine and industry. X-ray production, absorption, detection, quantum and classical scattering, refraction and applications to crystal structure, metallurgy and therapy. Prereq., 113, 114 and Math. 102. Offered 1st sem., 1955-56.

310. HEAT AND THERMODYNAMICS (3) Smith

Temperature, expansivity, calorimetry, specific heats, thermal conduction, thermal properties of gases, change of phase, first and second laws of thermodynamics, Carnot cycle, entropy, applications to physical processes. Prereq., 113 and Math. 102. Offered 2nd sem., 1954-55.

314. MODERN SPECTROSCOPY (3) Randall

Origin of spectra, Bohr theory, term schemes and ground states, atomic energy levels, electronic configurations, ionization potentials, one-, two-, and three-electron spectra, elementary quantum mechanics, Zeeman and Stark effects. Prereq., 113 and 114. Offered 1st sem., each year.

325. MECHANICS LABORATORY (1 or 2) Pierce

Kater's pendulum, impact, moment of inertia, gyroscope, viscosity, bending of beams, coupled pendulums. Prereq., 113 and Math. 102. Fee, \$5. Offered 1st sem., 1955-56.

326. HEAT LABORATORY (1 or 2) Pierce

Mechanical equivalent, heat of combustion, determination of gamma, conductivity, specific heat of carbon, absolute expansion of mercury, flame temperature. Prereq., 113, 114 and Math. 102. Fee, \$5. Offered 1st sem., 1954-55.

327. OPTICS LABORATORY (1 to 3) Randall

Dispersion, resolving power, Fresnel and Fraunhofer diffraction, Newton's rings, Michelson interferometer, grating, refractometer, polarimeter, measurement of wave length. Use of precision apparatus and accurate results emphasized. Prereq., 113, 114. Fee, \$5. Offered 1st sem., 1955-56.

328. SPECTROSCOPY LABORATORY (1 to 3) Randall

Qualitative and quantitative analysis by emission and absorption methods in visible and ultraviolet regions, prism and grating spectrometers. Experimental techniques in calibration, sources, standards, mountings, spectrophotometry, photographic procedure. Prereq., 113, 114. Fee, \$5. Offered 2nd sem., each year.

329. ELECTRONICS AND ELECTRICAL MEASUREMENTS LABORATORY (1 to 4) Smith

Charge on the electron, specific charge of electron, thermionic emission, resonance potentials, discharge through gases, photoelectricity, electron diffraction. Study of ballistic galvanometer, dielectric constants, magnetic hysteresis, transients. Prereq., 113, 114 and Math. 102. Fee, \$5. Offered 1st sem., each year.

330. X-RAY AND RADIOACTIVITY LABORATORY (1 to 3) Edwards

Crystal analysis, X-ray spectral distribution curves with ionization spectrometer, absorption coefficients and limits, Moseley's law, scattering and polarization. Geiger counters and curved crystal spectrograph. Radio-active decay and radiation analysis. Prereq., 113, 114 and Math. 102. Fee, \$5. Offered 2nd sem., each year.

349-350. ATOMIC PHYSICS (3-3) Edwards

An introduction to atomic physics designed for students in physics, chemistry, mathematics or engineering. Topics include elementary particles, mass spectrographs, high energy electromagnetic spectrum, nuclear energy and reactions. Prereq., 113, 114 and Math. 102. 349 offered 1st sem. each year; 350 offered 2nd sem., each year.

351-352. CLASSICAL AND QUANTUM MECHANICS (3-3) Pierce, Smith

Classical mechanics of particles and rigid bodies, energy, constrained motions, oscillations. Selected topics including Schroedinger's

equation, simple barrier problems, eigenfunctions for the rigid planar rotator and linear harmonic oscillator. Prereq., 113, 114 and Math. 315. 351 offered 1st sem., 1955-56; 352 offered 2nd sem., 1955-56.

361. MINOR PROBLEMS IN PHYSICS (1 to 4) The Staff

The course permits qualified students to carry out minor research in any field of physics in order to increase their knowledge and techniques. Prereq., 15 hrs. and permission. Fee, \$5.

365. NUCLEAR REACTOR THEORY AND PRACTICE (3) Randall

Basic nuclear physics and neutron theory with application to nuclear reactors. Declassified description of recent applications to reactor engineering practice, operation, design and materials. Intended for scientists and engineers interested in atomic energy. Prereq., 113, 114 and Math. 102. Offered 1st sem., each year.

405-406. THEORETICAL PHYSICS (4-4) Edwards, Randall

Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamilton-Jacobi equations, hydrodynamics, statistical mechanics, kinetic theory. Prereq., Math. 315 and permission. 405 offered 1st sem., 1954-55. 406 given 2nd sem., 1954-55.

410. MODERN PHYSICS (3) Randall

Theory and experimental methods in radioactivity, atomic energy, and nuclear physics. Current problems of low and high energy elementary particles: neutrons, protons, mesons, electrons, nuclear reactors, particle accelerators, cosmic rays, radiation shielding. Prereq., 14 hrs. and Math. 102. Offered 2nd sem., 1955-56.

481. RESEARCH IN PHYSICS (1 to 3) The Staff

Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission. Fee, \$5.

491. SEMINAR IN PHYSICS (1) The Staff

Prereq., 15 hrs.

495. THESIS (1 to 6) The Staff

Prereq., permission.

PORTUGUESE—See Romance Languages

PRINTING ADMINISTRATION Associate Professor Kinison

11. HAND COMPOSITION AND TYPOGRAPHY (1 to 3) Kinison

A laboratory course in hand composition. It includes the basic operations that are used in general printing. Display composition forms a part of the laboratory exercises. Maximum credit in course, 6 hrs. 1 lec. and 4-10 lab. Fee, \$3.

21. ELEMENTS OF PRESSWORK (1 to 3) Kinison

Includes production problems in the operation of presses, adjustment and care of pressroom machinery, selection and handling of paper, and matching and mixing of inks. Maximum credit in course, 6 hrs. 1 lec. and 4-10 lab. Fee, \$3.

112. ORGANIZATION OF PRINTING PRODUCTION (4) Kinison

An introduction to the problems involved in commercial printing. It includes planning, layout, estimating, and scheduling of the complete manufacture of printing projects. 1 lec. and 6 lab. Prereq., 11, 21, or Ind. A. 142. Fee, \$2.

144. PHOTOLITHOGRAPHY

(3) Kinison

Practice in the making of off-set plates of several kinds and operation of the off-set press. Plate making involves the use of the copying camera and the whirler. 6 lab. Fee, \$3.

PSYCHOLOGY

Professors Lehman, A. C. Anderson,
Patrick (chairman), Scott, Paulsen, Gentry
Assistant Professor Pullen
Instructors Blackwood, Cable

The major requirement in psychology for the A.B. degree is 24 semester hours including 1, 109 and 18 hours in courses numbered above 100 as approved by the department advisers. Undergraduate majors and especially those planning to pursue graduate work in psychology, are advised to prepare themselves in allied fields appropriate to their interests. Especially recommended are languages, preferably French and German, statistics, biological science, and economics. All graduate majors are expected to attend a semimonthly non-credit seminar.

The major requirement in psychology for the B.S. in Education degree is given on page 132.

1. GENERAL PSYCHOLOGY

(3) The Staff

An elementary study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1.

2. PSYCHOLOGICAL APPROACH TO EVERYDAY PROBLEMS

(3) Scott

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) Lehman,

A study of behavior in infancy and childhood, including a survey of the social, cultural, and biological factors associated with various kinds of child behavior. Prereq., 1.

5. EDUCATIONAL PSYCHOLOGY

(3) Gentry, Lehman, Patrick, Pullen

This course aims to give students preparing to teach the fundamental psychological facts and principles concerning maturation, motivation, emotion, and the learning processes in behavior development. A bio-psycho-social approach is maintained. Prereq., 1. Fee, \$1.

9. IMPROVEMENT OF READING AND STUDY METHODS

(1) Blackwood

Improvement of study and reading habits. Credit not counted toward a degree.

109. EXPERIMENTAL PSYCHOLOGY

(3) Paulsen, Blackwood

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.

131. EMPLOYEE SELECTION AND PLACEMENT

(2) Paulsen

Evaluation of tests and other selective devices for employee selection, placement, and promotion in industry. Lecture and laboratory combined. Prereq., 1. Fee, \$1.

133. INDUSTRIAL PSYCHOLOGY (2) Paulsen, Scott
Learning, training, fatigue, motivation, and environmental conditions as they affect the individual's performance. Lecture and laboratory combined. Prereq., 1.
135. PSYCHOLOGY OF ADVERTISING AND SELLING (3) Anderson, Paulsen
Applications of psychology of attention, human motives, learning and remembering, imagery, individual likenesses and differences to advertising and selling. Prereq., 1.
301. ADVANCED EXPERIMENTAL PSYCHOLOGY (3) Paulsen
Research on a topic selected by the student. Prereq., 109 and 3 hrs. additional. Fee, \$3.
303. MENTAL MEASUREMENTS (3) Anderson, Pullen, Cable
The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Prereq., 6 hrs. Fee, \$1.
304. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (2) Lehman
The growth and development of nontypical children. Speech disorders, auditory defects, visual defects, delinquency, psychopathy, special talents and defects are considered. Prereq., 6 hrs.
305. AN INTRODUCTION TO PSYCHODIAGNOSIS (3) Pullen
A survey and practice of methods and techniques in diagnosing and evaluating personality disorders. Prereq., 303. Fee, \$1.
307. COMPARATIVE AND GENETIC PSYCHOLOGY (3) Patrick, Blackwood
Behavior of lower and higher organisms leading up to man is considered. 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.
309. MOTIVATION AND EMOTIONS (3) Patrick
The dynamics of animal and human behavior: a study of drives, desires, incentives; a study of emotion in relation to frustration of motives. Prereq., 6 hrs.
310. MENTAL HYGIENE (3) Patrick, Pullen
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.
312. ABNORMAL PSYCHOLOGY (3) Scott
Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; 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.
313. CRITICAL EVALUATION OF CURRENT PSYCHOLOGICAL LITERATURE (3) Scott, Blackwood
This course is primarily for advanced undergraduate and graduate majors in psychology. The purpose is to give students a critical evaluation of current experimental and theoretical findings in the psychological journals and monographs and in journals of related fields. It will supplement traditional readings in connection with courses and bring the students in contact with trends in psychology. Class discussions, students' reports, and assigned readings will be the methods used in the class. Prereq., 12 hours and permission. Fee, \$1.
315. SOCIAL PSYCHOLOGY (3) Paulsen
A study of the behavior of man as influenced by group membership, with emphasis on the individual's interaction as a basis of change of motives, attitudes and personality. Prereq., 6 hrs.

316. **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., 6 hrs.
317. **PSYCHOLOGY OF PERSONALITY** (3) Gentry, Pullen
The nature of personality as revealed in interrelations of biological, psychological, and cultural concepts. Prereq., 8 hrs. Fee, \$1.
320. **PERSONNEL AND VOCATIONAL COUNSELING** (3) Paulsen
Methods and techniques useful in considering personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 6 hrs.
323. **RESEARCH METHODS AND TECHNIQUES** (2) Paulsen
Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Prereq., graduate student or undergraduate major in social science with 8 hrs. completed in major field.
325. **MINOR PROBLEMS IN PSYCHOLOGY** (1 to 3) The Staff
Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Maximum credit in course, 6 hrs. Prereq., 8 hrs. and permission.
333. **LEARNING AND MEMORY** (3) Anderson, Blackwood
Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs.
335. **HISTORY OF PSYCHOLOGY** (2) Scott
The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 8 hrs.
337. **COUNSELING AND PSYCHOTHERAPY** (3) Patrick
Analysis, evaluation, and practice in use of techniques and procedures in counseling and psychotherapy. Prereq., 6 hrs. Fee, \$1.
481. **RESEARCH IN PSYCHOLOGY** (2 to 4) The Staff
Prereq., 15 hrs. and permission.
494. **ADVANCED SEMINAR IN PSYCHOLOGY** (2 to 4) The Staff
Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission.
495. **THESIS** (1 to 6) The Staff
Prereq., permission.

RADIO

Professor Green
Associate Professors Jukes, Turnbull
Assistant Professors Gillespie, Baird
Instructors Logan, Greer

47. **RADIO WORKSHOP—ENGINEERING SECTION** (1 or 2) Green
Technical work connected with radio broadcasting. Practice in control room technique, remote pick-up, tape recording, transmission lines and station maintenance. Prereq., permission.

79. INTRODUCTION TO RADIO-TV (2) Baird, Greer
The development of radio. Attention given to American and foreign systems, mechanics of broadcasting, FCC rules, networks, advertising, and public service programs.
80. RADIO SPEECH (2) Logan, Greer
Microphone technique, pronunciation problems. Practice in reading various types of materials. 1 lec. and 2 lab. Prereq., Speech 2. Fee, \$2.
105. RADIO BROADCASTING MECHANICS (2) Jukes
Brief study of the apparatus used in radio broadcasting, including microphones, amplifiers, studio acoustics, control room, transmission lines, radio transmitter, and antenna. 1 lec. and 2 lab. Fee, \$2.
- 125-126. RADIO PLAY PRODUCTION (3-3) Logan
Radio techniques; sources of radio material; editing and preparation of radio play scripts; use of sound effects. Practice work in the university station. 1 lec. and 4 lab. Prereq., 80.
247. RADIO WORKSHOP (1 or 2) Greer
Rehearsal, performance, and technical work connected with radio broadcasting. Maximum of four hours credit. Prereq., 6 hrs. in radio and permission.
280. RADIO-TV NEWS WRITING AND EDITING (2) Gillespie
The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., 179 and Jour. 107. Fee, \$2.
285. RADIO-TV NEWS PRACTICE (2 or 3) Gillespie
A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over WOUI, AM and FM. Maximum credit in course, 6 hrs. Prereq., 280. Fee, \$3.
301. PRINCIPLES OF TELEVISION PRODUCTION (3) Logan
History of television; its impact upon society and other media of communication; production aspects of television; general principles of transmission and reception. Prereq., junior standing, 10 hrs. in radio, and permission.
309. RADIO-TV ADVERTISING AND MANAGEMENT (3) Turnbull
A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and TV station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.
316. WRITING FOR RADIO (2) Greer
Writing of scripts including dramatizations of human interest stories, continuity, straight and dramatized commercials, original and adapted short sketches and stories. Prereq., 12 hrs. radio and journalism, or 12 hrs. English, and junior standing.
347. ADVANCED RADIO WORKSHOP (1 or 2) Jukes, Logan
Rehearsal, performance, and technical work connected with radio broadcasting. Maximum of four hours credit. Prereq., 8 hrs. in radio, including 247.
- 375-376. PROGRAM PLANNING AND BUILDING (2-2) Logan, Jukes
A thorough study of all aspects of radio station operations with particular reference to programming, costs, staff, program building and series planning. Case study of a specific situation. Prereq., senior standing, 125-126, 309 or equivalent.

491. SEMINAR IN RADIO AND TELEVISION (2) Jukes, Logan

Individual projects and advanced research in production problems, music, directing, writing, announcing and the evaluation of radio and television programs. Special emphasis on the problems and potentialities of educational television. Maximum credit in course, 4 hrs. Prereq., 12 hrs., permission.

495. THESIS (1 to 6) The Staff

Prereq., permission.

Suggested courses: Dramatic Art (see page 203), Speech and Speech Correction (see page 291), E.E. 101-102—Fundamentals of Radio, E.E. 325—Acoustics, Mus. 5—Music Appreciation, Jour. 103—Introduction to News Writing, Jour. 375—Specialized Journalism.

RESERVE OFFICERS' TRAINING CORPS

Professor James R. Patrick, Coordinator

AIR SCIENCE AND TACTICS

Professor of Air Science and Tactics: Lieutenant Colonel Graham

Assistant Professors: Majors Ferris, Rothwell;

Captains Barker, Bradlyn, Miller, Moran;

Lieutenants Caffrey, Mansfield

Instructors and Administrative Assistants:

Master Sergeants Cianciulli, Holmes,

Kratochvil, Wolfe

Technical Sergeants Martin, Turner

Staff Sergeants Gilchrist, Sprague

1, 2. BASIC COURSE (2, 2) Bradlyn, Caffrey, Miller

Introduction to the eight-semester AFROTC program and the advantages of flight training. Introduction to aviation. Fundamentals of global geography. International tensions and security structures. Instruments of national military security. Basic military and leadership training (laboratory)* three hours a week. Prereq., permission. Fee, \$2 a semester.

101, 102. BASIC COURSE (2, 2) Caffrey, Mansfield

Introduction to Air Science 101 curriculum. Elements of aerial warfare: introduction to aerial warfare; targets, weapons, delivery aircraft. Elements of aerial warfare: the air ocean, bases, forces. Careers in the Air Force. Leadership training (laboratory)*. Three hours a week. Prereq., Basic Air Force 1, 2. Fee, \$2 a semester.

221, 222. ADVANCED COURSE (3, 3) Ferris, Moran, Barker

Introduction to Advanced AFROTC. The Air Force Commander and his staff. Problem solving techniques. Communicating in the Air Force. Instructing in the Air Force. The Military justice system. Applied air science; aerodynamics and propulsion, navigation, weather. Air Force base functions. Leadership training (laboratory)*. Five hours a week. Prereq., Completion of Basic Air Force courses and selection for the advanced Air Force course. Fee, \$2 a semester.

*Note: Leadership laboratory consists of appropriate classroom and drill field training in the practice of leadership techniques. Emphasis is placed on drill as a vehicle for developing leadership potential with proficiency in drill a secondary objective. This laboratory is supplemented by leadership training available through AFROTC extra-curricular activities.

AFROTC SUMMER CAMP

(3) Camp and Air Base Staff

A six-week training program conducted on an Air Force base between the junior and senior years, consisting primarily of orientation to base facilities with some classroom work to make practical application of courses covered in the freshman, sophomore and junior years and also to provide opportunity for life under military conditions.

Instruction includes physical training, familiarization flying, USAF base activity and equipment, individual weapons, drill, field exercises, air base problems. Prereq., Advanced Air Force 221, 222.

251, 252. ADVANCED COURSE

(3, 3) Bradlyn, Moran, Miller, Rothwell

Critique of summer camp. Introduction to the Advanced Course, Leadership seminar. Career Guidance. Military aspects of world political geography. Military aviation and the art of war. Briefing for commissioned service. Leadership training (laboratory)*. Five hours a week. Prereq., 221, 222, 251. Fee, \$2 a semester.

MILITARY SCIENCE AND TACTICS

Professor of Military Science and Tactics: Lieutenant Colonel Dickerson

Assistant Professors: Lieutenant Colonel Sweeney; Majors Knight, Field; Captain Phillips; Lieutenant Antrim

Instructors: Sergeants Waldo, Whitman, Linton, Kulick, Tschachtli

1, 2. BASIC COURSE

(2, 2) The Staff

Military policy of the U.S., National Defense Act and ROTC, military organization, combat information, tactics of the rifle squad, maps and aerial photographs, first aid and hygiene, military problems of the U.S., military mobilization and demobilization, individual weapons and marksmanship, leadership, drill and exercise of command. Three hours a week, Fee, \$2 a semester.

101, 102. BASIC INFANTRY

(2, 2) The Staff

Introduction to branch technique, organization, weapons, marksmanship, technique of fire, combat formations, scouting and patrolling, elementary tactics, leadership, drill and exercise of command. Three hours a week. Prereq., M.S. 1, 2. Fee, \$2 a semester.

101, 102. BASIC QUARTERMASTER

(2, 2) The Staff

Introduction to branch technique; organization for supply in the army; organization and functions of the Quartermaster Corps; classification of supplies; property accountability and responsibility; research and development; organization, functions, and operation of quartermaster units; unit and organizational supply; leadership, drill and exercise of command. Three hours a week. Prereq., M.S. 1, 2. Fee, \$2 a semester.

221, 222. ADVANCED INFANTRY

(3, 3) The Staff

Tactics and technique of infantry to include organization of the infantry division, weapons, gunnery, communications, combat intelligence, map reading, estimate of the situation and combat orders, field fortifications, tactics of rifle and heavy weapons platoons and companies, leadership, drill and exercise of command. Five hours a week. Prereq., two years of basic course or one year of active duty and by permission of the P.M.S.&T. Fee, \$2 a semester.

221, 222. ADVANCED QUARTERMASTER (3, 3) The Staff

Organization, mission, functions and responsibilities of the Quartermaster Corps; station supply; depot supply; storage, warehousing and materials handling; commissary operations; garrison and field bakery operations; post and field laundry operations; salvage operation and procedures; maintenance and reclamation of quartermaster supplies; graves registration; food service activities; individual weapons and marksmanship; leadership, drill and exercise of command. Five hours a week. Prereq., two years of basic course or one year of active duty and by permission of the P.M.S.&T. Fee, \$2 a semester.

SUMMER ROTC CAMP (3) Camp Staff

A six-week training program to be conducted at a post, camp or base applicable to the specialized course student is pursuing. Summer training will supplement instruction given in Military Science courses 221, 222, 251, and 252 with practical work in leadership and exercise of command, interior guard duty, chemical warfare training, maps and photographs, weapons and marksmanship, tactical exercises and specialized on-the-job training. Prereq., Advanced Infantry or Quartermaster 221, 222.

251, 252. ADVANCED INFANTRY (3, 3) The Staff

Conclusion of the more advanced tactics and techniques of infantry to include equipment and duties of personnel of the infantry division, command and staff, motors and transportation, supply and evacuation, troop movement, new developments, the military team, map reading, tactics of the infantry battalion in attack and defense, leadership, drill and exercise of command, military administration, military law and boards, military teaching methods, psychological warfare, geographical foundations of national power. Five hours a week. Prereq., Advanced Infantry 221, 222 and by permission of the P.M.S.&T. Fee, \$2 a semester.

251, 252. ADVANCED QUARTERMASTER (3, 3) The Staff

Conclusion of the more advanced procedures and operations of the Quartermaster Corps and their relation to the combat arms to include fiscal and procurement procedures, command and staff, combat intelligence, technical intelligence, organization and functions of the technical services, quartermaster operations in the zone of the interior and in the theater of operations, leadership, drill and exercise of command, military administration, military law and boards, military teaching methods, psychological warfare, geographical foundations of national power. Five hours a week. Prereq., Advanced Quartermaster 221, 222 and by permission of the P.M.S.&T. Fee, \$2 a semester.

ROMANCE LANGUAGES

Professors Noss, Whitehouse,
Wilkinson, Ondis
Associate Professors Renkenberger (chairman), Rice
Assistant Professor Leete

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 two other Romance languages.

The major requirement in Romance languages for the B.S. in Education degree is given on pages 130 and 133.

FRENCH

- 1-2. BEGINNING FRENCH (4-4) The Staff
Pronunciation, essentials of grammar, oral practice, and reading.
5. FRANCE IN THE TWENTIETH CENTURY (1) Noss
A cultural survey in English. A study of French geography, history, art, music, literature, press, theater, and customs. No knowledge of French required.
100. INTERMEDIATE FRENCH (1 to 3) The Staff
The course fits the needs of those desiring either semester of second-year French, and may be taken either before or after Fr. 101 without duplication. Prereq., 2 or 2 yrs. high school French.
- 101-102. INTERMEDIATE FRENCH (4-4) The Staff
Conversation, composition, grammar review, and varied readings. Prereq., 2 or 2 yrs. high school French.
115. FRENCH PHONETICS (2) Noss
A course designed to improve pronunciation by the study of individual sounds, syllabification, isolated words, and connected speech. Exercises in articulation and diction. Frequent use of phonograph records. Prereq., 102.
- 119, 120. FRENCH CIVILIZATION (2 or 3, 2 or 3) Noss
A survey of the geography, history, current events, customs, government, education, science, press, art, and music of France. Readings in French; discussions in English. Prereq., 102 or 3 yrs. high school French.
143. FRENCH COMPOSITION (1 to 3) Wilkinson
An introductory course in composition and stylistics of intermediate difficulty, with review of pronunciation and much oral practice. Prereq., 101.
- 213, 214. FRENCH CONVERSATION (1 or 2, 1 or 2) The Staff
Practice in the vocabulary and idioms of everyday speech. The subject matter deals largely with French life and customs. Prereq., 102 or 3 yrs. high school French.
- 265r. TEACHING OF FOREIGN LANGUAGES (2) Murphy
(Same as Ed. 265r).
- 301, 302. SURVEY OF FRENCH LITERATURE (1 to 4, 1 to 4) The Staff
A general view of French literature from the beginning. Special topics for investigation by advanced students. Collateral readings and reports. Prereq., 102.
- 303, 304. READINGS FROM FRENCH LITERATURE (1 to 4, 1 to 4) The Staff
Selections vary with the needs of the class or the student. Maximum credit in course, 16 hrs. Prereq., 102.
- 305, 306. THE FRENCH NOVEL (1 to 3, 1 to 3) The Staff
History of the novel in France from the Middle Ages to modern times. Prereq., 102.
- 311, 312. SEVENTEENTH CENTURY DRAMA (1 to 3, 1 to 3) Noss
A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102.
- 319, 320. FRENCH ROMANTICISM (2, 2) Noss
A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 102.

328. SIXTEENTH CENTURY FRENCH LITERATURE (2 or 3) Rice
Development of French thought during the Renaissance. Prereq., 6 hrs. beyond 102.
- 331, 332. SEVENTEENTH CENTURY FRENCH LITERATURE (2 or 3, 2 or 3) Noss
Seventeenth century French literature with the exception of the drama. Prereq., 102.
- 335, 336. EIGHTEENTH CENTURY FRENCH LITERATURE (1 to 3, 1 to 3) Renkenberger
A study of the literature of France from 1715 to the Revolution. Prereq., 102.
- 339, 340. NINETEENTH CENTURY FRENCH DRAMA (1 to 4, 1 to 4) Renkenberger, Wilkinson
History of the French drama beginning with the preromantic movement. Special topics for investigation by advanced students. Collateral readings and reports. Prereq., 102.
344. ADVANCED FRENCH COMPOSITION (1 or 2) Wilkinson
Includes drill in pronunciation with phonetics. Prereq., 102.
- 361-362. ADVANCED FRENCH GRAMMAR (1 to 3 - 1 to 3) Wilkinson
Prereq., 102.
371. ADVANCED FRENCH (1 to 4) Noss
Specialized courses in seventeenth and nineteenth century literature designed to meet the special interests of advanced students. Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102.
381. RESEARCH IN FRENCH LANGUAGE AND LITERATURE (1 to 4) The Staff
A course designed to promote independent work in the study of special linguistic and literary problems. Maximum credit in course, 16 hrs. Prereq., 12 hrs. beyond 102 and permission.
- 421-422. ROMANCE PHILOLOGY (OLD FRENCH)
See "Romance Philology."
495. THESIS (1 to 6) The Staff
Prereq., permission.

ITALIAN

- 1-2. BEGINNING ITALIAN (4-4) The Staff
Pronunciation, grammar, and practice in the language.
- 101-102. INTERMEDIATE ITALIAN (1 to 4 - 1 to 4) The Staff
Review of grammar and reading in modern Italian. Prereq., 2 or 2 yrs. high school Italian.
- 301, 302. SURVEY OF ITALIAN LITERATURE (1 to 3, 1 to 3) The Staff
Prereq., 102.
- 303, 304. READINGS FROM ITALIAN LITERATURE (1 to 4, 1 to 4) The Staff
Selections may vary with the needs of the class. Prereq., 102.
371. ADVANCED ITALIAN (1 to 4) The Staff
Advanced work in language and literature. Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102.
495. THESIS (1 to 6) The Staff
Prereq., permission.

PORTUGUESE

- 1-2. BEGINNING PORTUGUESE (1 to 4 - 1 to 4) Whitehouse
Introduction to the rudiments of Portuguese, supplemented by reading and practice in the spoken language.
103. READINGS IN PORTUGUESE (1 to 3) Whitehouse
A study of Brazilian novels and short stories; review of grammar and conversation. Maximum credit in course, 6 hrs. Prereq., 2.

ROMANCE PHILOLOGY

- 325-326. GENERAL ROMANCE LINGUISTICS (1 or 2 - 1 or 2) The Staff
Introduction to graduate courses in philology. Prereq., Fr., It., Lat., or Sp. 102.
- 421-422. ROMANCE PHILOLOGY (OLD FRENCH) (2-2) The Staff
Prereq., 16 hrs. in French and 16 hrs. in another Romance language or Latin. R. Philol. 326 is advised but not required.
- 441-442. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE) (2-2) The Staff
Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. R. Philol. 326 is advised but not required.
495. THESIS (1 to 6) The Staff
Prereq., permission.

SPANISH

- 1-2. BEGINNING SPANISH (4-4) The Staff
Pronunciation, oral practice, essentials of grammar, and reading.
100. INTERMEDIATE SPANISH (1 to 3) The Staff
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 (4-4) The Staff
Conversation, composition, grammar review, and varied readings. Prereq., 2 or 2 yrs. high school Spanish.
103. SPANISH CULTURE AND CIVILIZATION (1 or 2) Whitehouse
The history, literature, and cultural development of Spain. Conducted in English.
210. HISPANIC-AMERICAN CIVILIZATION (1 or 2) Whitehouse
The art, customs, history, literature, and social philosophy of the peoples of Latin America as a basis for a full understanding and appreciation of their cultural evolution. Conducted in Spanish. Prereq., 102.
- 213, 214. SPANISH COMPOSITION AND CONVERSATION (1 or 2, 1 or 2) Ondis, Rice, Whitehouse
Prereq., 102.
- 241-242. COMMERCIAL SPANISH (2 to 4 - 2 to 4) Ondis, Rice
Prereq., 102.
- 265r. TEACHING OF FOREIGN LANGUAGES (2) Murphy
(Same as Ed. 265r).

- 301, 302. SURVEY OF SPANISH LITERATURE (1 to 3, 1 to 3) Ondis, Whitehouse
Historic and literary study of Spain from the Middle Ages to the present time. Prereq., 102.
- 303, 304. READINGS FROM SPANISH LITERATURE (1 to 4, 1 to 4) The Staff
Selections vary with the needs of the class and the student. Prereq., 102.
- 305, 306. THE SPANISH DRAMA (2 or 3, 2 or 3) The Staff
Sp. 305 traces the drama in Spain from its origins to 1700; Sp. 306, from 1700 to the present. Prereq., 102.
307. THE GOLDEN AGE (2 or 3) Ondis, Whitehouse
Historic and literary study of the sixteenth and seventeenth centuries. Prereq., 102.
308. CERVANTES (1 to 3) Ondis, Whitehouse
The chief works of Cervantes, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prereq., 102.
- 311, 312. SPANISH AMERICAN LITERATURE (1 to 3, 1 to 3) Ondis, Whitehouse
Important literary productions of the chief Spanish American countries are read. Prereq., 102.
313. NINETEENTH CENTURY SPANISH LITERATURE (2 or 3) Ondis, Whitehouse
Prereq., 102.
314. CONTEMPORARY SPANISH LITERATURE (2 or 3) Ondis, Whitehouse
Prereq., 102.
- 315, 316. THE SPANISH NOVEL (2 or 3, 2 or 3) The Staff
Sp. 315 covers the evolution of the novel in Spain from the earliest times to 1700; Sp. 316, the Spanish novel from 1700 to the present. Prereq., 102.
- 351, 352. ADVANCED SPANISH GRAMMAR (3, 3) Ondis
Peculiarities of Spanish grammar and syntax. Analysis of difficult texts. Free composition and oral reports. Prereq., 102.
371. ADVANCED SPANISH (1 to 4) The Staff
Advanced study or research in Spanish or Spanish American Literature; subject to be selected after consultation between instructor and students. Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102.
381. RESEARCH IN SPANISH LANGUAGE AND LITERATURE (2 to 4) Ondis, Whitehouse
Prereq., 12 hrs. beyond 102 and permission.
- 441-442. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)
See "Romance Philology."
495. THESIS (1 to 6) The Staff
Prereq., permission.

ROMANCE PHILOLOGY—See Romance Languages

RUSSIAN

Acting Assistant Professor Hammer

- 1-2. BEGINNING RUSSIAN (4-4) Hammer
Instruction in the reading of the Russian printed characters and use of the Russian handwriting, grammar, idiomatic expressions, conversation and reading of prose.

101-102. INTERMEDIATE RUSSIAN (4-4) Hammer
 Reading of poems, plays, and literary and scientific prose. Review of grammar. Conversation and composition. Prereq., 2.

201, 202. READINGS IN RUSSIAN LITERATURE (2, 2) Hammer
 Readings in Russian of short stories, novels and plays by nineteenth century and contemporary authors; their lives and literary significance. Prereq., 102.

SCULPTURE—See Art

SECRETARIAL STUDIES Associate Professor Sponseller (chairman)
 Assistant Professors Via, Appel
 Acting Assistant Professor Dalton
 Instructor Weaver

15. BEGINNING TYPEWRITING (2) Via, Weaver
 Development of basic skill on the typewriter and application of this skill to the more common typing practices. Achievement standard—30 words per minute. 5 hours a week; 1 hour arranged. Prereq., not open to those who have had high school typewriting. Fee, \$2.

16. INTERMEDIATE TYPEWRITING (2) Appel
 Development of further basic skill in the operation of the typewriter and quantity production of business forms. Achievement standard—45 words per minute. 5 hours a week; 1 hour arranged. Prereq., 15 with a scholastic average of 2.0 or one year high school typewriting. Fee, \$2.

31. BEGINNING SHORTHAND (3) Via, Appel, Weaver
 Theory of Gregg Simplified shorthand. Development of ability to take dictation. Achievement standard—60 words per minute for 5 minutes on new material. 4 hours a week. Prereq., 15 or with 15; not open to those who have had high school shorthand.

32. INTERMEDIATE SHORTHAND (3) Via, Appel, Weaver
 Increasing the student's ability to take dictation. Achievement standard—80 words per minute for 5 minutes on new material. 4 hours a week. Prereq., 31 with a scholastic average of 2.0 or one year high school shorthand.

111. ADVANCED TYPEWRITING (2) Dalton
 Development of speed and accuracy in the production of related typewriting office problems. Achievement standard—60 words per minute. 5 hours a week; 1 hour arranged. Prereq., 16 with a scholastic average of 2.0 or two years high school typewriting. Fee, \$2.

151. BEGINNING DICTATION AND TRANSCRIPTION (5) Appel
 Increasing dictation rates and developing transcription techniques. Achievement standards—100 words per minute for 5 minutes on new material; 25-word-per-minute transcription rate. 2 hours a day, 5 days a week. Prereq., 111, or with 111, and 32 with scholastic average of 2.0 or two years high school shorthand and typewriting. Fee, \$2.

152. ADVANCED DICTATION AND TRANSCRIPTION (5) Appel
 Achievement standards—120 words per minute for 5 minutes on new material; 35-word-per-minute transcription rate. 2 hours a day, 5 days a week. Prereq., 151 with a scholastic average of 2.0. Fee, \$2.

153. SPECIALIZED DICTATION AND TRANSCRIPTION (3) Via
Development of greater speeds and of vocabulary other than that required by an ordinary business office. 5 hours a week. Prereq., 151 with a scholastic average of 2.0. Fee, \$2.
172. FILING SYSTEMS AND PROCEDURES (1) Dalton
Various filing procedures and their applications. 3 hours a week. Prereq., 16. Fee, \$2.
173. MACHINE TRANSCRIPTION (1) Dalton
Development of skill in the use of machine transcribers. 3 hours a week. Prereq., 16. Fee, \$2.
180. OFFICE MACHINES (2) Dalton
Training in the solution of the more common mathematical business office problems on key-driven and crank-driven calculators. Instruction on accounting, dictating, and duplicating machines. 5 hours a week. Fee, \$3.
181. OFFICE PROCEDURES (2) Via
Application of skills to solution of typical office problems and procedures. 5 hours a week. Prereq., 180, 16, and Acct. 75. Fee, \$3.
220. BUSINESS COMMUNICATIONS (3) Sponseller
Application of English in the writing of effective business letters and reports for typical business situations. Prereq., Eng. 4, junior or senior rank.
- 261st. TEACHING OF SECRETARIAL SKILLS (3) Appel
(Same as Ed. 261st.) Methods of teaching the vocational office skills—shorthand, typewriting, office practice, secretarial practice, and office machines. Prereq., 16, 32, 172, 173, 181.
275. SECRETARIAL PRACTICE (4) Sponseller
Students spend 5 hours a week working in offices on the campus and 5 hours in the secretarial practice laboratory and conference. Prereq., 151, 172, 173, 181.
285. OFFICE MANAGEMENT (3) Weaver
Application of the principles of scientific management to office work and a study of the organization and work for which the office manager is responsible. Prereq., junior or senior rank and/or Ec. 102.
335. COMMERCIAL CURRICULUM CONSTRUCTION (2) Appel
Principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.
387. RESEARCH IN BUSINESS TEACHING PROBLEMS (2 to 8) The Staff
Prereq., 20 hrs. commerce, senior rank, and permission.
391. SEMINAR IN BUSINESS TEACHING PROBLEMS (2 to 4) The Staff
Maximum credit in course, 10 hrs. Prereq., 20 hrs. commerce and permission.
437. ADMINISTRATION IN BUSINESS EDUCATION (3 to 6) Sponseller
Problems involved in planning, administering, and supervising a business education program in the high school. Prereq., 20 hrs. commerce and permission.

SOCIAL SCIENCE

- 9, 10. CITIZENSHIP IN THE MODERN WORLD (3, 3) Murphree and Staff
(See "General Studies," page 229).

SOCIOLOGY

Associate Professors Jeddelloh, Harlan (chairman)
Assistant Professors Cory, Gullahorn, Worstell

The courses in the Department of Sociology represent the following areas of specialized interest: (1) Social Organization, (2) Population, (3) Social Psychology, (4) Criminology and Delinquency, (5) Social Work, and (6) Research Methods.

A major may be taken in sociology only, or in sociology and social work. In sociology, the major requirement for the A.B. degree is a minimum of 26 semester hours, including courses 1, 2 or 204, 201 or 202, 303, and 330. In social work and in applied criminology and delinquency, the major requirement is a minimum of 32 semester hours, including courses 1, 2 or 101, 102, 133, 234 or 245, and 339. (See "Preparation for Social Work" on page 108 and "Juvenile Delinquency and Criminology" on page 109.)

In fulfilling the university requirements in natural science and mathematics it is strongly recommended that majors should take Math. 107 and zoology. Other courses will be recommended according to individual student interests.

SOCIOLOGY

1. GENERAL SOCIOLOGY I: PRINCIPLES (3) The Staff

Introduction to the sociological study of cultural and social relations; social interaction, social processes, social status, and social institutions; community structure; the relation of personality to culture and society.

2. GENERAL SOCIOLOGY II: MODERN AMERICAN COMMUNITIES

(3) The Staff

Continuation of 1, with application of analytical concepts to contemporary American communities, utilizing recent field research reports as sources. Prereq., 1 or Soc. Sci. 9. (See "General Studies").

101. SOCIAL PROBLEMS

(3) Cory, Gullahorn

Intensive study of a limited number of major social problems as they affect the person, family, community, and nation. Group projects and discussions. Prereq., either 1, 2, Soc. Sci. 9, or Psych. 1.

103. RURAL SOCIOLOGY

(2) The Staff

Population, community, and institutions in American rural society; historical development and current trends. Rural life organizations and movements. Prereq., 3 hrs. or permission.

- 201, 202. FIELD STUDIES IN SOCIOLOGY

(2, 2) The Staff

Directed individual study of a group or community situation of interest to the student. One class meeting per week; conferences with instructor; field study report. Prereq., 2, or 101, or 103.

203. FOLK COMMUNITIES

(3) The Staff

Description and comparison of primitive and peasant communities; the disorganization of folk cultures in the modern world. Key anthropological and sociological monographs as sources. Prereq., 3 hrs.

204. URBAN COMMUNITIES (3) Gullahorn, Jeddelloh
Development of modern cities; demographic, economic, and social characteristics; ecological processes and social organization; the nature of urbanism; city planning. Prereq., 3 hrs.
207. EDUCATIONAL SOCIOLOGY (3) Jeddelloh
Sociological study of contemporary education; the school as a social institution; its relation to the community; development of the child; sociological aspects of learning and teaching. Prereq., 3 hrs.
208. SOCIAL STATISTICS (2) The Staff
Practical procedures in the treatment and presentation of statistical data; tables, graphs; calculating, sorting and tabulating equipment; source materials. 1 hr. lab. Prereq., 3 hrs.
209. INTRODUCTION TO THE STUDY OF POPULATION (3) The Staff
Growth and distribution of population; birth and death rates and differentials; migration; the labor force; control of population; demographic methods. Prereq., 3 hrs. or permission.
210. SOCIAL BEHAVIOR (3) Harlan
Social-psychological development of the individual; the emergence of role-taking abilities and self-concepts in social interaction; the function of language in conduct. Prereq., 3 hrs.
211. RACE AND CULTURE CONTACTS (3) The Staff
The conflict, accommodation, and assimilation of racial and ethnic groups; individual and collective status and experience arising in the contacts of peoples of diverse cultures. Prereq., 3 hrs.
229. CROWD, MASS, AND PUBLIC (3) Harlan
Individual and group behavior under conditions of social unrest and suggestibility; characteristics of collective groups; stages of development, types of action, and consequences. Prereq., 3 hrs.
- 301, 302. SOCIAL RESEARCH METHODS (2, 2) The Staff
Soc. 301 is concerned with the selection of significant theoretical problems for investigation, the formulation of hypotheses, and the planning of inquiry to yield definitive results. Soc. 302 involves intensive study of techniques appropriate to the investigation of various scientific problems in sociology, especially sampling methods and case studies. Prereq., 6 hrs.
303. SOCIOLOGICAL THEORY (2) The Staff
Origins and development of sociology; major contributors; current status of specialized fields of interest. Prereq., 6 hrs.
308. MARRIAGE AND THE FAMILY (3) Jeddelloh
The family as a basic institution in various cultures; courtship, marriage, and family relationships in American society; family disorganization; the development of marriage counseling. Prereq., 6 hrs.
311. CRIMINOLOGY AND PENOLOGY (3) Jeddelloh
An introduction to modern criminology and the correctional treatment of offenders. Field visits to courts and correctional institutions. Prereq., 6 hrs.
318. WORLD POPULATION TRENDS (2) Cory
Present rates of growth of world population; problem areas; population pressure, technological development and nationalism; current national and international policies and programs. Prereq., 209 or permission.

320. INDUSTRIAL SOCIOLOGY (3) Gullahorn
Work groups and large business firms as social systems; worker-union-management relations; leadership; decision-making. Review of research in human relations in industry. Prereq., 6 hrs.
321. CONTEMPORARY SOCIAL MOVEMENTS (3) Cory, Harlan
Characteristics and objectives of various types of social movements; reform and revolution; leaders, ideologies, tactics; case studies of typical movements. Prereq., 6 hrs. or permission.
322. JUVENILE DELINQUENCY (3) Jeddleloh
Factors associated with delinquency; characteristics of delinquents; juvenile courts and clinics; probation, correctional training; delinquency prevention. Field visits. Prereq., 6 hrs.
325. PERSONALITY AND SOCIETY (3) Harlan
Differential socialization of the child according to culture and social class; basic personality types; social definitions of situations; personal adjustment. Prereq., 6 hrs., 210, or permission.
326. DYNAMICS OF INTERPERSONAL RELATIONS (2) The Staff
Small groups as systems of interacting personalities; roles, alignments, conflicts; experimental measurement and control of interpersonal relations. Observations, reports. Prereq., 210, 325, or permission.
330. CURRENT SOCIOLOGICAL LITERATURE (1) The Staff
Journals, monographs, official reports; professional training opportunities, and organizations. Prereq., 6 hrs.
336. COMMUNICATIONS AND PUBLIC OPINION (3) Cory, Harlan
The process of opinion-formation; relation to public policy decisions; public opinion polls; organization and control of mass media; nature and effects of propaganda. Prereq., 6 hrs. or permission.
370. IN-SERVICE TRAINING (1 to 3) The Staff
Individually-arranged work experience under responsible supervision; advance planning and departmental approval; periodic reports. 2 to 6 months. Prereq., 12 hrs.; junior and senior majors.
381. RESEARCH PROBLEMS IN SOCIOLOGY (1 to 3) The Staff
Individual research projects in coordination with departmental research. Maximum credit in course 6 hrs. Prereq., 12 hrs., permission.
470. INTERNSHIP (3 to 6) The Staff
Full-time placement for research and training under close supervision of the department in positions in juvenile courts, correctional institutions, business and industrial firms, governmental agencies. 3-6 months. Prereq., candidacy for M.A. degree.
491. SEMINAR (3) The Staff
Topic announced each term. Maximum credit in course, 6 hrs. Prereq., 15 hrs.
495. THESIS (1 to 6) The Staff
Prereq., permission.

SOCIAL WORK

102. THE SOCIAL SECURITY SYSTEM (2) Worstell and others
Historical development and provisions of the Social Security Act and its significance in American life; comparisons with the social insurance systems of other nations.

133. SOCIAL WORK IN THE AMERICAN COMMUNITY (3) Worstell
A survey of the important features of public and private social services in the U.S. Personal qualifications and preparation of social workers; vocational opportunities. Prereq., 2 or 3 hrs.
234. CHILD WELFARE (3) Worstell
Legislation regarding child care and protection; services for children in their own homes, foster homes, and institutions. Case materials illustrating services and resources. Prereq., 133 or permission.
245. PUBLIC WELFARE (3) Worstell
Services available through public agencies; organization, administration, and financing of local, state, and Federal agencies; trends in public welfare, Prereq., 102, 133.
248. SOCIAL GROUP WORK (3) Worstell
Principles, methods, and types of group work; agencies sponsoring group work programs. Student responsible for participation or leadership in a group work project. Prereq., 133.
250. COMMUNITY PLANNING FOR SOCIAL WELFARE (2) Worstell
The planning, organization, and development of welfare services in the community; operation and functions of community chests, councils of social agencies, and similar organizations. Prereq., 133.
339. INTRODUCTION TO SOCIAL CASE WORK (2) Worstell
The development of social case work; analysis of basic principles; problems and methods as seen in theoretical and case material. Prereq., 102, 133, 234 or 245.
340. SOCIAL CASE WORK (2) Worstell
Continuation of 339 which broadens the understanding of the case work process and its methods. Prereq., 339.
- 341, 342. FIELD WORK SERVICES (2, 2) Arranged
Soc. 341: Observation of agency functions and methods in day-by-day activities; assignment to specific work responsibilities; conferences with training supervisor. Prereq., 339, permission. Soc. 342: Continuation of 341; placement in a different agency and increased responsibilities. Each course, three afternoons per week. Prereq., 341, permission.
350. IN-SERVICE TRAINING (1 to 3) Worstell
Students are encouraged to take summer positions between the junior and senior years for experience in agency or group work activities. Arrangements for supervision and advance approval by the department required; formal reports. Prereq., 339, permission.

SPANISH—See Romance Languages

SPEECH AND SPEECH CORRECTION
Professors Staats,
Kantner, Andersch
Associate Professors Jukes, LaFollette
Assistant Professors Lane, Wiseman
Instructors Hahne, Logan, Cattle, Greer, Bernard, Catalano

SPEECH

1. FUNDAMENTALS OF SPEECH (1) Andersch, The Staff
Study and practice of basic techniques for effective participation in everyday speaking situations. Fee, \$1.

2. VOICE AND ARTICULATION (2) LaFollette, The Staff
 Designed to help each student discover and remedy his vocal and articulatory problems. Group drills and individual instruction. Special attention given to pronunciation problems. Fee, \$2.
3. PUBLIC SPEAKING (2) Staats, The Staff
 Principles of public speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Prereq., 1 or proficiency test.
25. PRINCIPLES OF ARGUMENTATION (2) Staats, Wiseman
 Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.
34. ORAL INTERPRETATION OF LITERATURE (3) Hahne, Catalano, Bernard
 Techniques in interpretation, development of adequate intellectual and emotional responsiveness to the meaning of literature; study of literature adapted to oral interpretation; drill in reading aloud; preparation of programs. Prereq., 2 or 3.
110. PARLIAMENTARY PROCEDURE (1) Staats
 Theory and practice of parliamentary law. Prereq., 1 or proficiency test.
112. ADVANCED PUBLIC SPEAKING (2) Staats, Wiseman
 Extended study and application of the principles of public speaking with emphasis on content and organization. Preparation and delivery of various types of speeches of substantial length. Prereq., 3 or permission.
147. WORKSHOP IN PUBLIC ADDRESS (2) Staats, Wiseman, Bernard
 Preparation and delivery of speeches and readings for local, state and national contests and/or intercollegiate debate. Extended study and application of principles of public speaking. Maximum credit in course, 6 hrs. Prereq., permission. Fee, \$2.
- 262h. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH (3) Andersch
 (Same as Ed. 262h) Organization of curricular and co-curricular speech and dramatic activities; analysis of available materials; methods of casting, staging, and producing plays; problems in the coaching of debate and oratory. Prereq., junior standing, major or minor in dramatic art and speech.
302. ADVANCED ORAL INTERPRETATION (3) Hahne
 Emphasis on the developing of the skill in oral rendition of the short story, essay, monologue, and various forms of poetry. Preparation of programs for public recitals. Prereq., 34.
305. PROBLEM SOLVING THROUGH GROUP DISCUSSION (3) Wiseman
 Social responsibility, ethical problems and standards; application of the principles of general semantics and group dynamics; purposes, types, and methods of discussion; frequent class practice. Prereq., junior standing.
309. 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; speeches of eminent orators are analyzed. Prereq., F.A. 203-204 or permission.
325. DIRECTION OF FORENSIC PROGRAMS (3) Staats, Wiseman
 Organization of forensic programs in high schools and colleges, management of inter-school contests and tournaments, coaching of de-

bate, discussion and individual events, and principles of judging. Practical application in the university forensic program. Prereq., 25, 305 or equivalent.

401. INTRODUCTION TO GRADUATE WORK (3) Kantner

(Same as F.A. 401) Men, movements, and professional literature in the field of speech. Conduct of research and selection of a thesis problem.

471. AMERICAN PUBLIC ADDRESS (3) Staats

The history of public address in America from colonial times to the present. Analysis of selected speeches. Practice in the organization, composition and delivery of speeches of substantial length. Prereq., 112, F.A. 203-204 or equivalent.

490. SEMINAR IN PUBLIC ADDRESS (3) Staats, Wiseman

Advanced study in the history of public address, rhetorical theory, or rhetorical criticism and speech analysis. Class discussions and reports. Opportunity for independent research. Research projects must be approved by the instructor in charge in advance of registration. Prereq., 309 or 471, or equivalent.

491. SEMINAR IN SPEECH (2 or 3) Andersch

Problems in the teaching of basic speech courses at the college level, evolution of the speech curriculum. Assigned problems. Prereq., 15 hrs.

495. THESIS (1 to 6) The Staff

Prereq., permission.

Additional course: F.A. 203-204—History of Oratory.

See also courses listed under Dramatic Art on page 203 and Radio on page 277.

SPEECH CORRECTION

4. REMEDIAL SPEECH (1 or 2) LaFollette, The Staff

The Speech and Hearing Clinic is equipped and staffed to aid students in overcoming special speech problems. Instruction and supervised remedial practice are offered for individuals and small groups. Enrollment with permission at any time up to four weeks prior to the end of the semester. Not to be counted in hours for graduation.

194. SPEECH CORRECTION FOR THE CLASSROOM TEACHER (3) Cattle

Nature, causes, and treatment of defective speech in the public schools with special reference to the role of the regular classroom teacher. Open to majors in elementary education; others by permission. Not open to majors in dramatic art and speech.

195. PRINCIPLES OF SPEECH CORRECTION (3) Andersch

The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Emphasis on methods and techniques in the correction of common speech defects. Prereq., 6 hrs., Psych. 1 or 5, or permission.

247. CLINICAL PRACTICE IN SPEECH CORRECTION (2) LaFollette, Cattle

Supervised clinical practice with children or adults in the University Speech and Hearing Clinic. Maximum credit in course, 4 hrs. Prereq., 307, 310, 320, permission.

262s. SPEECH AND HEARING THERAPY IN PUBLIC SCHOOLS (2) Cattle

(Same as Ed. 262s) Methods, organization, and implementation of speech and hearing programs in the public schools. Must be taken concurrently with Ed. 286. Prereq., 307.

307. CLINICAL METHODS (3) Cattle
Basic orientation to speech therapy. Observation of children with normal and defective speech. Clinical work in the school situation and in the Children's Speech Clinic. Prereq., 6 hrs., including 195.
310. SPEECH PATHOLOGY (3) LaFollette
Anatomy of the vocal mechanism and study of organic speech disorders, such as stuttering, aphasia, cleft palate speech, spastic speech, and speech of the hard of hearing. Prereq., 195.
312. PHONETICS (3) Kantner
The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Prereq., 6 hrs. or permission.
319. AUDIOMETRY AND SPEECH AND HEARING PROBLEMS (3) LaFollette
Techniques of audiometric testing with clinical practice; interpretation of audiograms, criteria for educational placement and referral; principles of hearing aid selection; public school hearing conversation programs. Prereq., 6 hrs., or equivalent of 6 hrs., and permission. Fee, \$3.
320. ADVANCED CLINICAL METHODS (3) LaFollette
Methods in speech correction for adults; survey of current literature; clinical experience with adults in such problems as articulatory disorders, stuttering, aphasia, cerebral palsy, cleft palate and loss of hearing. Prereq., 10 hrs., including 310.
323. LIP READING (3) LaFollette
The basic principles of understanding language by observing the speaker's lips and facial expression. Emphasis on both theory and practice of speech reading. Special attention given to teaching methods. Prereq., 6 hrs.
345. STUTTERING AND PSYCHOGENETIC DISORDERS OF SPEECH (3) LaFollette
A detailed study of literature in the field with emphasis on the nature, causes, development, and treatment of stuttering and other speech defects with psychogenic implications. Extensive case studies. Prereq., senior majors, 310, 320 or with 320.
392. SEMINAR IN SPEECH SCIENCE (3) Kantner, LaFollette
Structure and function of the mechanism for speech and hearing. Anatomical, physiological and neurological considerations. Laboratory projects. Offered in alternate years with Speech 492. Prereq., senior majors or graduate students.
455. LANGUAGE FOR THE DEAF AND HARD OF HEARING (3) LaFollette
Stage by stage instruction for the teaching of speech to deaf and hard of hearing children of all ages. Consideration of basic problems, specific techniques and special equipment. Students with severe hearing losses may audit this course by special permission without the prerequisites. Prereq., 307, 319, 323 or equivalent.
492. SEMINAR IN SPEECH CORRECTION (2 or 3) Kantner, LaFollette
Current literature and advanced research in the field of speech correction. Individual reading projects. Class reports and discussions. Prereq., 12 hrs., including 195.
495. THESIS (1 to 6) The Staff
Prereq., permission.
Additional course: Ed. 286—Practice Teaching in Speech Correction.
See also courses listed under Dramatic Art on page 203 and Radio on page 277.

STATISTICS

Assistant Professor Soltow (chairman)

255-256. BUSINESS STATISTICS

(3-3) Soltow

Elementary statistical methods used in business. 2 lec. and 2 lab. Fee, \$2 a semester.

271. ANALYSIS OF STATISTICAL DATA

(3) Soltow

Study of reports and forecasts of business firms, bureaus, and agencies. Application of statistical methods of specific problems. Prereq., 255.

303. VARIABLES

(3) The Staff

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 255 and Ec. 102.

341. BUSINESS CYCLES

(3) The Staff

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 255, or with 255 and Ec. 102.

345. FORECASTING

(3) The Staff

The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 256 or with 256 and Ec. 102.

381. RESEARCH IN BUSINESS STATISTICS

(2 to 8) The Staff

Prereq., 18 hrs. commerce including 256 and permission.

391. SEMINAR IN BUSINESS STATISTICS

(2 to 4) The Staff

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce including 256 and permission.

495. THESIS

(1 to 6) The Staff

Prereq., permission.

Additional course: Math. 326—Theory of Statistics.

ZOOLOGY

Professors Elliott (chairman), Frey, Stehr
Associate Professors Rowles, Seibert
Assistant Professors Lawrence, McQuate

The major requirement in zoology for the A.B. degree is a minimum of 24 hours in approved departmental courses; for the B.S. degree, a minimum of 24 to 30 hours. These courses must include Zool. 3-4, 107, 120 or 121, 235 or 305. In addition, the following extra-departmental courses are required: Chem. 1-2 or 3-4, Math. 5 or 9, or 107 (prenursing and medical technology majors have no requirement in mathematics), Phil. 103 or approved course in philosophy. Premedical students are urged to elect Math. 9 and 107 (see page 100) and to include these courses as part of the freshman program. Students who substitute a year in medical or dental school for the senior year or who complete the hospital training in nursing are credited with 8 hours on the major for the A.B. degree and 10 hours on the major for the B.S. degree. Those who complete the affiliated training in medical technology at Mount Carmel Hospital are credited with 32 hours toward the B.S. degree. In event a student completes nurses training in a fully-accredited hospital before beginning work on a bachelor's degree at Ohio University, she may, on recommendation of the Department of Zoology and the approval of the Dean, receive a maximum of 30 hours' elective credit toward a bachelor's degree.

Curricula are outlined by the College of Arts and Sciences for students in premedical, pre dental, nursing and medical technology programs (see pages 100, 101, and 103). Students who wish to teach and to complete requirements for the A.B. or B.S. degrees with a major in zoology, may meet requirements for certification for teaching. See requirements on page 140.

The major requirement in zoology for the B.S. in Education degree is given on page 130.

3. PRINCIPLES OF ZOOLOGY (3) McQuate, Seibert, Stehr

Elementary physiology and anatomy of a living organism to illustrate principles of life: metabolism, growth, reproduction, and heredity. 2 lec. and 2 lab. Fee, \$5.

4. PRINCIPLES OF ZOOLOGY (3) McQuate, Seibert, Stehr

A survey of the important animal phyla to illustrate major biological principles; the relationships of animals and their environment; the doctrine of evolution as the underlying principle. 2 lec. and 2 lab. Prereq., 3. Fee, \$5.

103. READINGS IN BIOLOGY (1) Stehr

A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Prereq., 4, or Biol. 2, or high school biology. Fee, \$2.

107. PRINCIPLES OF HEREDITY (3) McQuate

An introduction to the fundamental principles of heredity and variation. Practical applications to animal and plant breeding, human heredity, and race betterment. Prereq., 4, or Biol. 2, or 6 hrs. botany.

113. BIOLOGY OF VERTEBRATES (4) Seibert

A study of vertebrate animals, other than birds, including classification, life histories, and other pertinent topics. Identification of museum collection with emphasis on Ohio specimens; collecting and preserving techniques; field work. 2 lec., 4 lab., and field work. Prereq., 4. Fee, \$5.

118. ORNITHOLOGY (3) Seibert

A study of birds and bird biology, including classification, migration, general anatomy and physiology, life histories, and economic values. Emphasis on field identification. 2 lec., 2 lab. or field work. Prereq., 4, or Biol. 2. Fee, \$4.

120. COMPARATIVE VERTEBRATE ANATOMY (4) Elliott

A comparative study of body systems of vertebrates, with laboratory work covering various type forms. 2 lec. and 4 lab. Prereq., 4. Fee, \$7.

121. ELEMENTS OF ANATOMY (3) McQuate

Course for majors in zoology other than premedical and pre dental students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the mammal. Illustrated by dissection of a cat. 2 lec. and 2 lab. Prereq., 4. Fee, \$7.

133-134. ANATOMY, KINESIOLOGY, AND PHYSIOLOGY (4-4) Rowles, Trepp

(Same as P.E. 133-134) Course for majors in physical education and athletics. All body systems are studied with particular emphasis on the skeleton, joints, and muscles, including physiology of exercise and muscular movements of body. Prereq., 3. Fee, \$7 a semester.

216. ANIMAL COMMUNITIES (4) Seibert

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal communities. 2 lec. and 4 lab. or field work. Prereq., 4. Fee, \$5.

219. 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, \$5.

225. ANIMAL MICROTECHNIC

(1 or 2) Lawrence

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, junior or senior rank. Fee, \$6.

235. ELEMENTS OF PHYSIOLOGY

(4) Rowles

Functions of various tissues and organs of mammals as applied particularly to the human organism. Recommended for home economics majors and zoology majors other than premedical and pre dental students. 2 lec. and 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. Fee \$6.

241. ELEMENTARY BACTERIOLOGY

(4) Lawrence

Morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 311. 2 lec. and 4 lab. Prereq., 4 or Biol. 2, or 6 hrs. botany or 8 hrs. chemistry. Fee. \$6.

245. CLINICAL TECHNIC

(2) Frey

The theory and practice of making various tests used in laboratories of clinical pathology with emphasis on hematology. Prereq., 311 and permission. Fee, \$3.

246. CLINICAL TECHNIC

(2) Frey

A continuation of course 245. Major emphasis will be upon blood chemistry determinations and other advanced techniques. Prereq., 245 and permission. Fee, \$3.

301. MAMMALIAN ANATOMY

(4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Prereq., 120. Fee, \$7.

302. VERTEBRATE EMBRYOLOGY

(4) McQuate

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and pig. 2 lec. and 6 lab. Prereq., 120. Fee, \$7.

304. HISTOLOGY

(4) McQuate

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., 120 or 121. Fee, \$7.

305. PRINCIPLES OF PHYSIOLOGY

(4) Rowles

Physio-chemical composition of living material; properties of solutions, membranes and enzymes; physiology of various body systems. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Prereq., 120, Chem. 2 or 4. Organic chemistry valuable. Fee, \$6.

308. PHYSIOLOGY OF EXERCISE

(2) Rowles

An analysis of the manner in which the various organs of the body meet the requirements of physical activity as related to oxygen debt, fatigue, efficiency, diet, age, sex, body type, race, altitude, and environmental temperature. Course designed for majors and graduate students in physiology, physical education and athletics. Prereq., Zool. 134, or 120 (or 121) and 235 (or 305).

309. BIOLOGICAL CHEMISTRY (4) Rowles
Introduction to physical chemistry of true and colloidal solutions; principles of enzyme action; chemistry of and tests for: carbohydrates, proteins, fats; digestion and metabolism; chemical analysis of: blood, bile, milk, urine. 2 lec. and 4 lab. Prereq., 4 hrs. physiology, Chem. 113 and 117. Fee, \$7.
311. GENERAL BACTERIOLOGY (4) Frey
A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec. and 4 lab. Prereq., 4 and Chem. 113 or 201. Fee, \$6.
312. PATHOGENIC BACTERIOLOGY (4) Lawrence
Microorganisms in relation to diseases. A study of disease manifestations, methods of transmission, means of protection and immunity. 2 lec. and 4 lab. Prereq., 311. Fee, \$6.
314. MICROBIOLOGICAL TECHNICS (2) Frey, Lawrence
A practical course designed to give the student extensive experience in the use of bacteriological technics and equipment. 4 lab. Prereq., 311 or 241 and organic chemistry. Fee, \$3.
316. ANIMAL PARASITES (4) Lawrence
A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, and means of prevention. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$6.
317. ADVANCED GENERAL BACTERIOLOGY (4) Lawrence
A study of bacteria as living systems. Subjects considered will include: growth requirements, enzyme systems, intermediary and end products formed, influence of environmental factors and bacterial taxonomy. 2 lec. and 4 lab. Prereq., 311 or 241 and organic chemistry. Fee, \$7.
320. ADVANCED ENTOMOLOGY (4) Stehr
Study of insect morphology and the principles of insect classification and identification, with emphasis on the more extensive orders. 2 lec. and 4 lab. Prereq., 219. Fee, \$5. Not offered in 1955-56.
- 325-326. INVERTEBRATE ZOOLOGY (4-4) 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, \$5 a semester. Not offered in 1954-55.
327. ANIMAL ECOLOGY (4) Seibert
A study of the effect of environment on animals; the role of temperature, moisture, gases, photoperiod, metabolism, osmotic regulation on ecological distribution; physiological and structural adaptations. Experimental methods in field and laboratory. 2 lec. and 4 lab. or field work. Prereq., 216. Fee, \$5. Not offered in 1954-55.
343. BIOLOGICAL STUDIES (1 to 4 a semester in any of the following areas)
Semi-independent studies under the guidance of the instructor. Maximum credit in any one area, 8 hrs. Prereq., 10 hrs. and permission. Fee, \$3.
- Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey, Lawrence.
 - Ecology—field and laboratory studies of the relation between animals and their surroundings. Seibert, Stehr.
 - 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. McQuate.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Stehr.
- f. Parasitology—animal parasites. Lawrence.
- g. Physiological Zoology—physiological and related experimental studies. Rowles.
- h. Readings in Biology—readings dealing with biological history, theory, and advances. Stehr.
- i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Anatomy—gross and microscopic anatomy, embryology, histological technic. Elliott, Lawrence, McQuate.
- k. Vertebrate Zoology—classification, life history studies. Seibert.

413. BACTERIOLOGICAL REVIEW (2) Frey

An advanced theoretical course in bacteriology. Special reference is made to dissociation, bacterial growth curves, anaerobiasis, oxidation and reduction, and bacterial metabolism. Prereq., 12 hrs. bacteriology and permission.

485. RESEARCH IN BIOLOGY (1 to 4) The Staff

Research work in all areas listed under 343. This course fulfills the thesis requirement. Maximum credit in course. 4 hrs. Prereq., 20 hrs. and permission. Fee, \$3.

MEDICAL TECHNOLOGY

Mount Carmel Hospital Staff: H. B. Davidson, M. D., Director

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum on page 101.

291. URINALYSIS Four weeks (3)
The physical, chemical, and microscopic study of urine.

292. HEMATOLOGY Eight weeks (5)
Total red and white blood counts, hemoglobin determinations, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

293. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY Eight weeks (11)
Review of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of types of bacteria; methods in which blood serum can be used in recognition and diagnosis of disease; review of parasites pathogenic to man; methods of examining feces; microscopic and bacteriologic study of sputum.

294. CHEMISTRY Thirteen weeks (8)
A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

295. HISTOLOGIC TECHNIC Six weeks (4)
Review of fundamental procedures in the preparation of tissue for microscopic examination; study of special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

296. BASAL METABOLISM AND ELECTROCARDIOGRAPHY Two weeks (1)
Study of the methods of determining the basal metabolic rate, a study of the electrocardiograph and methods of taking electrocardiographic tracings.

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*As of February 15, 1954.

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 CLIFFORD GILBERT WOOD, A.B., *Instructor in English*

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