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BULLETIN

THE GRADUATE COLLEGE

1956

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# OHIO UNIVERSITY BULLETIN

## *The Graduate College*



OHIO UNIVERSITY  
ATHENS, OHIO

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Vol. LII

February, 1956

Number 3

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# THE UNIVERSITY CALENDAR FOR 1956-1957

## THE 1956 SUMMER SESSION

Eight-week term—June 18 to August 11—followed by a three-week term. For complete announcements see the Summer Session Bulletin.

## FIRST SEMESTER 1956-1957

1956

Sept. 17	Mon.	Semester opens.
Sept. 20	Thur.	Registration.
Sept. 21	Fri.	Classes begin.
Oct. 1	Mon.	Last day for registering for the semester. Last day for applying for admission to candidacy.
Oct. 6	Sat.	Last day for adding course by change order.
Oct. 8	Mon.	Last day for filing application for graduation on February 2.
Oct. 13	Sat.	Last day for withdrawing from a course. Last day for partial refund of fees to students who withdraw.
Oct. 27	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Nov. 21	Wed.	Thanksgiving recess begins at 12:00 noon.
Nov. 26	Mon.	Classes resume at 12:00 noon.
Dec. 7	Fri.	Advising for second semester; classes dismissed.
Dec. 14	Fri.	Last day for all candidates to take comprehensive examination on major course work.
Dec. 15	Sat.	Christmas recess begins after last class.

1957

Jan. 2	Wed.	Classes resume at 12:00 noon. Last day for presenting thesis in form for final typing to Thesis Director for approval.
Jan. 23	Wed.	Last day of classes.
Jan. 24	Thur.	Reading and review day.
Jan. 25	Fri.	Examinations begin.
Jan. 26	Sat.	Last day for candidates to take oral examination on thesis.
Jan. 28	Mon.	Theses due in library and abstracts due in Graduate College office.

Jan. 30	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Jan. 31	Thur.	Examinations end.
Feb 2	Sat.	Semester closes.

## SECOND SEMESTER 1956-1957

Feb. 4	Mon.	Semester opens; counseling and advising.
Feb. 5	Tues.	Registration.
Feb. 6	Wed.	Classes begin.
Feb. 18	Mon.	Last day for registering for the semester. Last day for applying for admission to candidacy.
Feb. 23	Sat.	Last day for adding course by change order.
Feb. 25	Mon.	Last day for filing application for graduation on June 9.
Mar. 2	Sat.	Last day for withdrawing from a course. Last day for partial refund of fees to students who withdraw.
Mar. 16	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Apr. 17	Wed.	Spring recess begins at 12:00 noon.
Apr. 24	Wed.	Classes resume at 12:00 noon.
May 6	Mon.	Last day for presenting thesis in form for final typing to Thesis Director for approval.
May 9	Thur.	Last day for all candidates to take comprehensive examination on major course work.
May 30	Thur.	Memorial Day holiday.
May 31	Fri.	Reading and review day; counseling and advising for September.
June 1	Sat.	Examinations begin. Last day for candidates to take oral examination on thesis.
June 3	Mon.	Theses due in library and abstracts due in Grad- uate College office.
June 5	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June 7	Fri.	Examinations end.
June 9	Sun.	Commencement.

# THE UNIVERSITY CALENDAR FOR 1957-1958

## THE 1957 SUMMER SESSION

Eight-week term—June 17 to August 10—followed by a three-week term. For complete announcements see the Summer Session Bulletin.

### FIRST SEMESTER 1957-1958

1957

Sept. 16	Mon.	Semester opens.
Sept. 19	Thur.	Registration.
Sept. 20	Fri.	Classes begin.
Sept. 30	Mon.	Last day for registering for the semester. Last day for applying for admission to candidacy.
Oct. 5	Sat.	Last day for adding course by change order.
Oct. 7	Mon.	Last day for filing application for graduation on February 1.
Oct. 12	Sat.	Last day for withdrawing from a course. Last day for partial refund of fees to students who withdraw.
Oct. 26	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Nov. 27	Wed.	Thanksgiving recess begins at 12:00 noon.
Dec. 2	Mon.	Classes resume at 12:00 noon.
Dec. 6	Fri.	Advising for second semester; classes dismissed.
Dec. 13	Fri.	Last day for all candidates to take comprehensive examination on major course work.
Dec. 14	Sat.	Christmas recess begins after last class.

1958

Jan. 2	Thur.	Classes resume at 12:00 noon. Last day for presenting thesis in form for final typing to Thesis Director for approval.
Jan. 22	Wed.	Last day of classes.
Jan. 23	Thur.	Reading and review day.
Jan. 24	Fri.	Examinations begin.
Jan. 25	Sat.	Last day for candidates to take oral examination on thesis.
Jan. 27	Mon.	Theses due in library and abstracts due in Graduate College office.

Jan. 29	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Jan. 30	Thur.	Examinations end.
Feb. 1	Sat.	Semester closes.

## SECOND SEMESTER 1957-1958

Feb. 3	Mon.	Semester opens; counseling and advising.
Feb. 4	Tues.	Registration.
Feb. 5	Wed.	Classes begin.
Feb. 17	Mon.	Last day for registering for the semester. Last day for applying for admission to candidacy.
Feb. 22	Sat.	Last day for adding course by change order.
Feb. 24	Mon.	Last day for filing application for graduation on June 8.
Mar. 1	Sat.	Last day for withdrawing from a course. Last day for partial refund of fees to students who withdraw.
Mar. 15	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Apr. 2	Wed.	Spring recess begins at 12:00 noon.
Apr. 9	Wed.	Classes resume at 12:00 noon.
May 5	Mon.	Last day for presenting thesis in form for final typing to Thesis Director for approval.
May 8	Thur.	Last day for all candidates to take comprehensive examination on major course work.
May 29	Thur.	Reading and review day; counseling and advising for September.
May 30	Fri.	Memorial Day holiday.
May 31	Sat.	Examinations begin. Last day for candidates to take oral examination on thesis.
June 2	Mon.	Theses due in library and abstracts due in Grad- uate College office.
June 4	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June 6	Fri.	Examinations end.
June 8	Sun.	Commencement.

# OHIO UNIVERSITY

## THE GRADUATE COLLEGE

- JOHN CALHOUN BAKER, M.B.A., LL.D., D.C.S. -----*President of the University*  
Cutler Hall
- DONALD ROOP CLIPPINGER, Ph.D., LL.D.-----*Dean of the Graduate College*  
Cutler Hall
- CONSTANCE ANDREWS SANDS, A.M.-----*Secretary of the Graduate College*  
Cutler Hall
- RITA BURNS SAMPSELLE, B.S.S.---*Secretary to the Dean of the Graduate College*  
Cutler Hall

### ADMINISTRATIVE OFFICERS IN THE COLLEGES

- RUSH ELLIOTT, Ph.D.-----*Dean of the College of Arts and Sciences*  
Cutler Hall
- FRANCIS NEWELL HAMBLIN, Ph.D.-----*Dean of the College of Education*  
Cutler Hall
- CLARK EVERETT MYERS, M.B.A.-----*Dean of the College of Commerce*  
Ewing Hall
- GAIGE BRUE PAULSEN, Ph.D.-----*Dean of the University College*  
Cutler Hall
- EARL COVERT SEIGFRED, Ph.D.-----*Dean of the College of Fine Arts*  
Cutler Hall
- EDWIN JAMES TAYLOR, JR., M.S.---*Dean of the College of Applied Science*  
Engineering Building
- KARL AHRENDT, Ph.D.-----*Director of the School of Music*  
Music Hall
- LOREN JOSEPH HORTIN, A.M., Litt.D.-----*Director of the School of Journalism*  
Ewing Hall
- CLAUDE EDGAR KANTNER, Ph.D.-----*Director of the School of Dramatic Art and Speech*  
Speech Building
- LAWRENCE CARL MITCHELL, A.M.-----*Director of the School of Painting and Allied Arts*  
Jacobs Building
- VIVIAN MAE ROBERTS, Ph.D. --*Director of the School of Home Economics*  
Agriculture and Household Arts Building

### THE GRADUATE COUNCIL

DONALD R. CLIPPINGER, Ph.D., Professor of Chemistry, chairman; PAUL R. MURPHY, Ph.D., Associate Professor of Classical Languages, secretary; ERNEST M. COLLINS, Ph.D., Associate Professor of Government; HARRY B. CREWSON, JR., Ph.D., Assistant Professor of Economics; GEORGE F. DAVIS, Ph.D., Assistant Professor of Economics and Management; JOHN E. EDWARDS, Ph.D., Professor of Physics; GEORGE E. HILL, Ph.D., Professor of Education; A. C. LAFOLLETTE, Ph.D., Associate Professor of Dramatic Art and Speech; E. P. LYNN, Ph.D., Assistant Professor of Education; MAXWELL S. PULLEN, Ph.D., Assistant Professor of Psychology; WILLIAM C. STEHR, Ph.D., Professor of Entomology.



# GENERAL INFORMATION

## HISTORICAL BACKGROUND

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

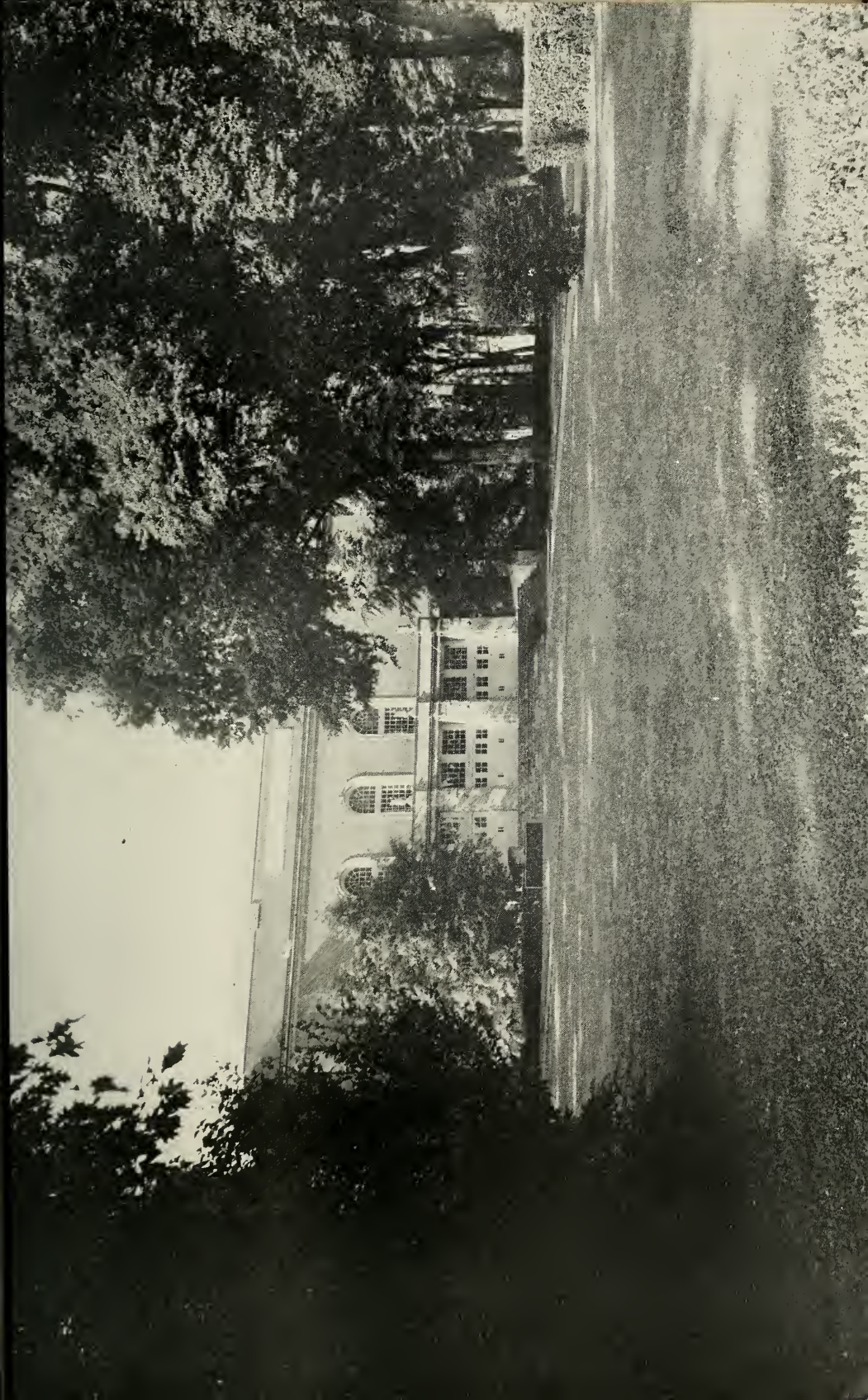
Ohio University was founded and conducted during the early years of its existence as a college devoted to the arts and sciences. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and a few changes in policy. By the turn of the century, however, a growing 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 spring of 1936, the Graduate College was established. 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 Division
- The University Extension Division
- The Summer Session
- The Branches

## LOCATION

The city of Athens, seat of the University, is located in scenic southeastern Ohio and has a population of 8,900. In addition, there is a suburban population of some 6,500 persons. Neither large nor extremely small, the city exists chiefly because of the University and for its

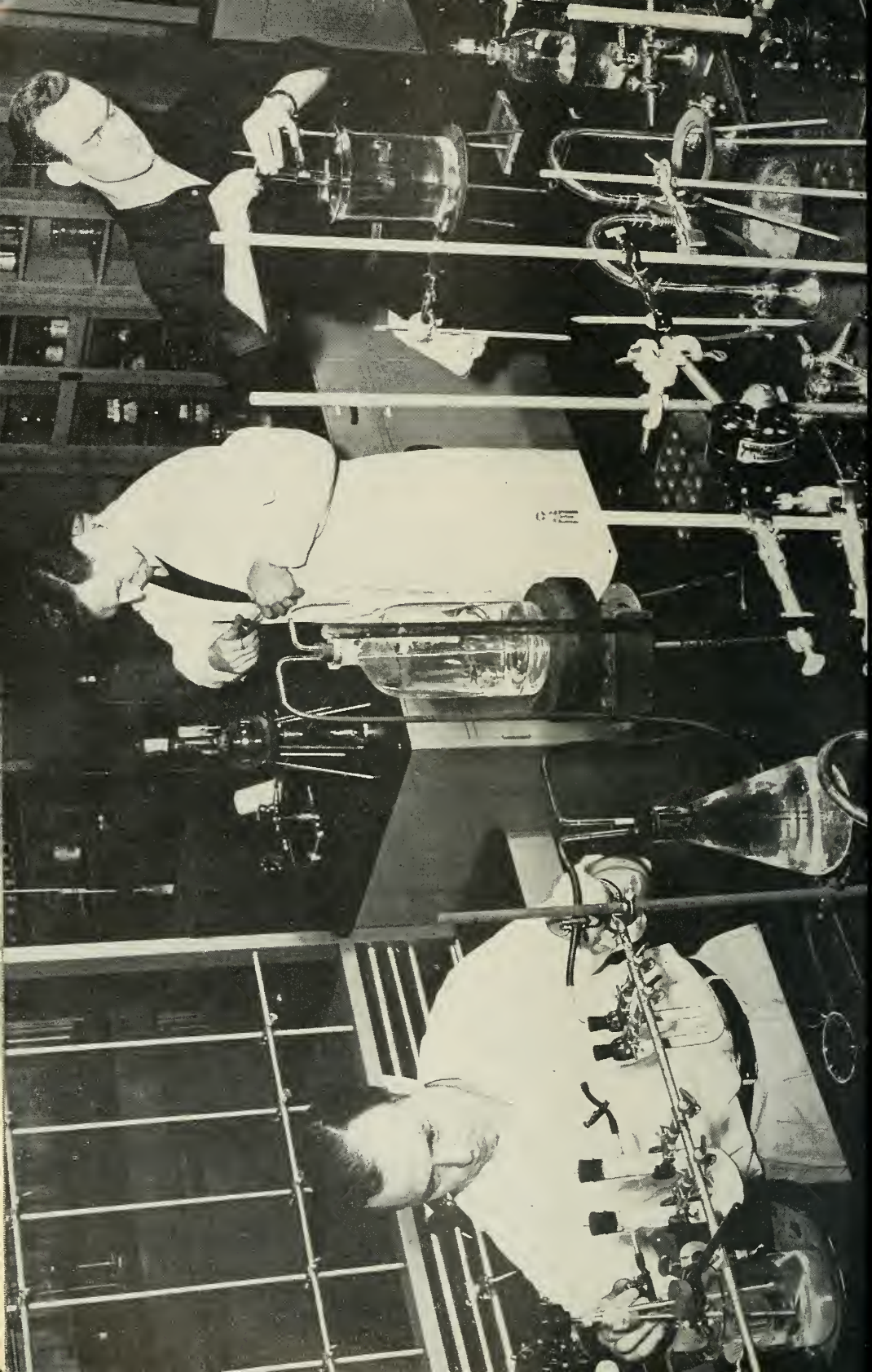






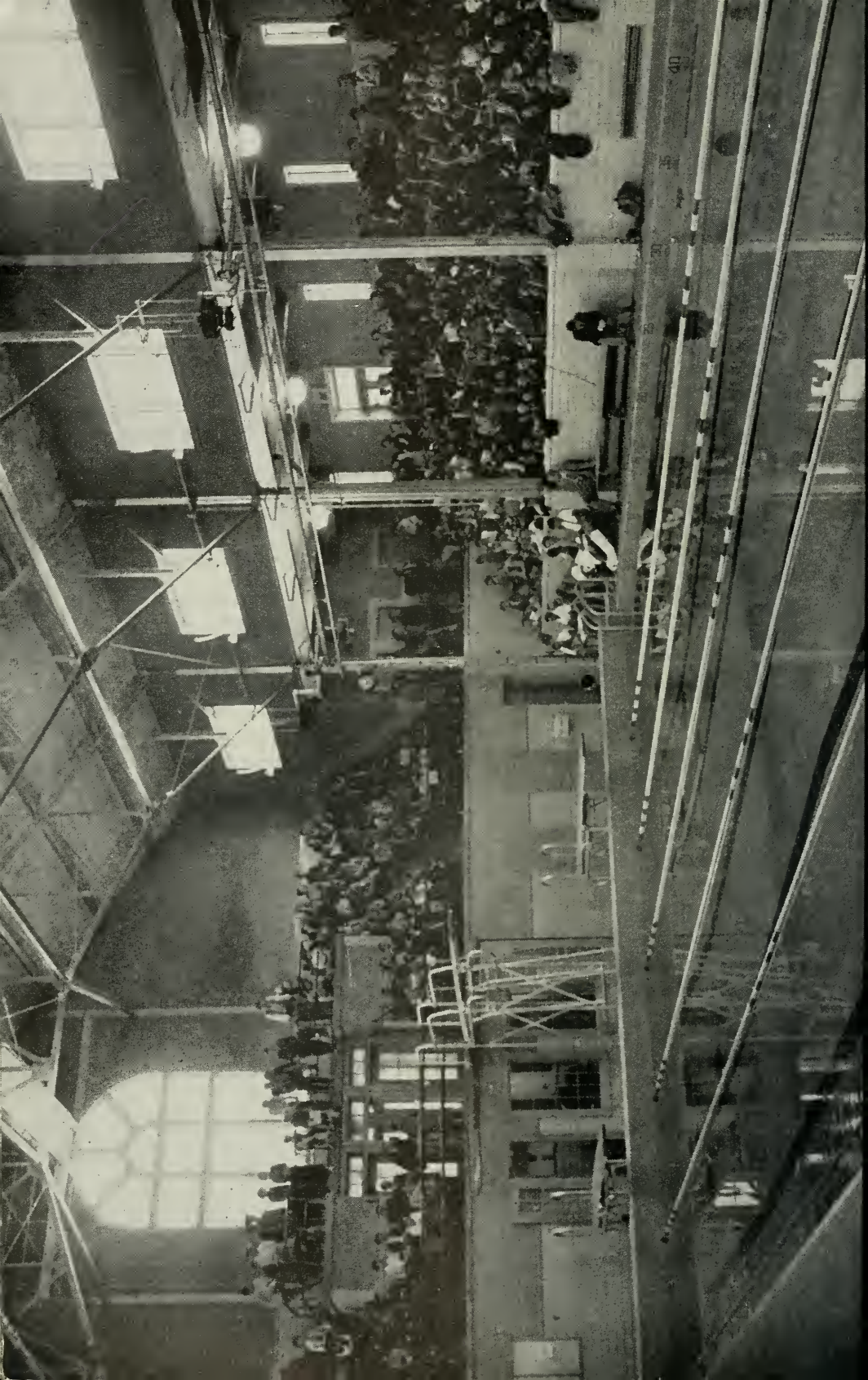












welfare. The relations between its citizens and the members of the university community are, therefore, markedly cordial.

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. Bus service from the north is provided by the Lake Shore System and Zane Transit Lines, from the south by Lake Shore, and from the east and west by the Eastern Greyhound Lines.

### THE SESSIONS

The sessions of the University consist of two eighteen-week semesters and a summer session. The summer session consists of two terms: an eight-week term (equivalent to a half semester), and a three-week term immediately following the eight-week program. Little if any work at the graduate level is offered during the three-week session.

### DEGREES GRANTED

In addition to fourteen baccalaureate degrees, the following graduate degrees are granted by Ohio University: Master of Arts, Master of Education, Master of Fine Arts, Master of Science, Master of Business Administration, and Doctor of Philosophy.

### ACCREDITATION

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

- The Council on Social Work Education
- 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
- The North Central Association of Colleges and Secondary Schools
- The Association of American Colleges
- The American Council on Education
- The Ohio College Association
- The Ohio State Department of Education
- The American Association of University Women

### UNIVERSITY LIBRARY

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 250,000 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 1,100 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. A browsing room contains books of general interest for pleasure reading.

Small collections of specialized material are administered by the College of Commerce, School of Music, Department of Chemistry, Department of Physics, and the University Health Center.

#### TRAVEL-STUDY PROGRAM IN FRANCE OR SPAIN

Students and teachers of French or Spanish who are interested in combining a program of graduate study with travel in France or Spain during the summer are invited to communicate with the Director of Foreign Study, Ohio University, Athens, Ohio, for further details.

In brief, the program consists of five weeks in and about Paris or Madrid with the time divided between classwork and educational and recreational activities. The dates of the program coincide fairly well with those of the regular summer session.

Up to four hours of graduate credit may be earned in French or Spanish. Those who wish to register as auditors may do so, but will pay the same fee as those registered for credit.

The group will be under the guidance of one of the regular staff members, and instruction will be given by native French or Spanish teachers. There will, of course, be ample opportunity for the use of the spoken language.

#### 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 and appear in recitals but counsel informally with interested students.

#### UNIVERSITY HEALTH CENTER

The services and facilities of the University Health Center are available to all regularly enrolled students of the University. The Center includes a complete clinic with X-ray and minor surgery, a forty-bed infirmary with an isolation wing, and a physiotherapy department. The staff includes four full-time doctors and nine registered nurses.

Students are entitled to the following: (1) outpatient clinic service, which usually includes medications; (2) hospitalization in the infirmary without charge, subject to the judgment of the staff doctors; (3) consultations with outside specialists at the discretion of the director; and (4) emergency service at all hours.

New students, unless coming for the summer terms only, must present evidence of vaccination against smallpox within the last 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 Director of Admissions properly completed and signed.

#### AMERICAN BANKERS ASSOCIATION SCHOLARSHIP

The American Bankers Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. This scholarship is awardable to a deserving student of senior or graduate rank whose major course is in banking, economics, or related subjects.

#### FULBRIGHT OR MARSHALL SCHOLARSHIPS

Graduate students who are interested in applying for Fulbright or Marshall Scholarships should consult Dr. B. A. Renkenberger, Chairman, Foreign Study Committee, Room 104, McGuffey Hall. Application blanks are available at the opening of the academic year each September.

#### THE 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 on the basis of scholarship, character, and future financial ability. Foundation loans bear an interest rate of 3% per annum.

A person desiring further information or a loan application form should direct his request to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

#### COUNSELING SERVICE

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, 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 cost 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 Hall.

### BUREAU OF APPOINTMENTS

Assistance in securing positions in such fields as teaching, business, and industry may be obtained by students and graduates of the University from the Bureau of Appointments. 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 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.

### 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.

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.

### RECREATION

Among other recreational facilities of interest to graduate students is the University's new Natatorium. Conveniently located adjacent to the main campus, the building is featured by a pool, 42 feet wide by 75 feet long, with six standard racing lanes and a rated capacity of 116 persons. The pool is equipped with submerged lighting, Olympic-style starting blocks, and one-meter and three-meter diving boards.

The nine-hole university golf course is located on the east side of the Hocking River across from Ohio Stadium.

Tennis and handball courts are available to all students.

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. Concerts by the University Symphony Orchestra, Symphonic Band, Chorus, and Glee Clubs provide additional entertainment of a delightful nature.

Season tickets for concerts sponsored by the Athens Community Concert Association and the Athens Chamber Music Society are available to students at reduced rates. Internationally-famed instrumentalists and vocalists, symphony orchestras, opera companies, and ballet groups have been brought to the campus by these organizations.

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

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.

### 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 Director of Admissions, Ohio University, Athens, Ohio.

### 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.

## LIVING ARRANGEMENTS

**HOUSING.** Single graduate students will, for the most part, be housed in private residences. Some few students will be assigned to the residence halls of the University. Rooms in private residences are listed with the Director of Student Housing and have been inspected and approved by the University.

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.

Married graduate students may find accommodations in apartments rented by the University or in accommodations afforded by the community.

The University has 112 apartment units located on East State Street, approximately two miles from The Green. Each of these apartments consists of a living room, bedroom, kitchen, and bathroom with an abundance of closet space, and is equipped with a gas cooking range and a gas heating unit. Tenants must arrange to supply the additional needed articles. The rent is \$39.00 per month, payable in advance. The rental charge includes all utilities.

In addition, there are 17 furnished two-room prefabricated units which accommodate a like number of families. The rent for each unit is \$27.00 a month, payable in advance. The rental charge includes gas and water. Each family unit is compact, efficient, and quite livable.

Married veterans are given preference in the assignment of these University facilities.

The University Trailer Park, which will accommodate 36 privately-owned trailers, is located on East State Street, adjacent to the University Airport. Space rental for a trailer is \$10.00 per month, which includes

\*See statement defining legal residence on page 16.

water and sewage service. Excellent toilet, bathing, and laundry facilities are provided for all trailer occupants. The rental charge does not cover electricity.

**TRANSPORTATION.** 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.

**APPLICATION FOR HOUSING.** When application for admission to the Graduate College is being made the student should communicate at the same time with the Director of Student Housing, Ohio University, Athens, Ohio, indicating his requirements for housing.

**BOARD.** 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.

The cost of board in university halls is \$198.00 per semester for 21 meals a week. Meals are served throughout the academic year except during the Christmas recess. Board rates are subject to revision, in accordance with prevailing economic conditions.

## FEES AND DEPOSITS

Payment of all assessed fees at the time of registration is prerequisite to official enrollment. Checks and money orders should be drawn in favor of Ohio University in the exact amount of the fees. Postdated checks are not acceptable. Checks not paid on presentation to the bank will automatically cancel any receipts given and result in assessment of penalties. It is important that the student retain his receipt, for it must be presented at the time the activity card is issued.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

### REGISTRATION FEES

The Semester:	Resident of Ohio*	Non- Resident
Comprehensive fee for load of 12 to 16 hours, inclusive Includes the general registration fee of \$75.00; the student activity fee; student service fees such as health, library, and testing; and course and laboratory fees. Excludes fees for private in- struction, as in music, which are listed in the course descriptions.	\$110.00	\$235.00
Fee for each hour for load of 7 to 11 hours, inclusive	10.00	20.00
Fee for each hour for load of 1 to 6 hours, inclusive The fee for 1 to 6 hours does not carry with it the privilege of a student activity card or the use of the Health Service.	8.00	20.00

Auditors pay fees in full as above.

\*See Statement defining legal residence on page 16.



The Summer Session:

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

Extension Class:

Registration fee, each semester hour -----	8.00	20.00
Fee is increased if class is organized with an enrollment below the required quota.		

MISCELLANEOUS FEES

Certificate of completion	\$	2.50
Change of course or change of college		2.00
Duplicate official forms, fee receipts, grade report, etc.		1.00
Examination for advanced standing, each semester hour		5.00
Graduation—		
Application for degree		10.00
Re-application		2.00
Penalty for late application		5.00
Diploma mailing fee for those excused from commencement		2.00
Late registration or late payment of fees—\$3.00 Minimum, \$10.00 Maximum	3.00-10.00	
Microfilming fee, required of Ph.D. candidates		\$25.00
Thesis Editing and Abstract Printing		\$5.00
Thesis Binding, Each copy		2.50
Transcript of record, after first transcript request		1.00
Group requests of five to ten copies, \$5.00; five to twenty copies, \$10.00		
Vocational Counseling Fee for students and pro- spective students		5.00

**REFUND OF FEES.** Voluntary and official withdrawal from the University entitles the student to a refund of 80% of the comprehensive fee if he withdraws within the first and second weeks of a semester, and 50% if he withdraws within the third and fourth weeks. A week is interpreted to mean a calendar week and ends at noon on Saturday.

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.

EXPENSE ESTIMATE

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

Comprehensive registration fee* -----	\$110.00
Rent of room in dormitory (average rental) ----	90.00
Board in dormitory -----	198.00

Total for semester	\$398.00
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\*The registration fee for a student who is not a resident of Ohio is increased by the nonresident fee. See "Fees and Deposits," page 14.

The estimate does not include the cost of books, which amounts to approximately \$25 a semester for the average student.

The real difference 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.

#### LEGAL RESIDENCE

The admission regulations and the general registration fee for non-residents of the State of Ohio are higher than for the residents of the State.

1. No student shall be considered eligible to register in the University as a resident of the State of Ohio unless he has had bona fide domicile in the state twelve consecutive months before he registers at the University. There is a strong presumption that one who comes into the state to attend college has a temporary residence, not a domicile.

2. No student whose domicile was outside the State of Ohio in the year preceding his original enrollment in the University shall be considered a resident unless it can be clearly established by him that his former domicile has been abandoned and new domicile established in the State of Ohio and maintained for at least twelve consecutive months. No applicant for residence standing of one whose legal residence is not determined by his parents or legal guardian can be considered until the applicant is 22 years of age.

3. No student whose domicile was outside the State of Ohio at any time after his original enrollment in the University shall be considered a resident unless he has established his domicile as stated in paragraph 2 above.

4. **MINORS:** The domicile of a student who is a minor shall be considered the same as that of his parents or legal guardian, if any, regardless of emancipation. If an Ohio resident is appointed guardian of a non-resident minor, the latter shall be considered a non-resident until twelve months after the appointment.

5. **WIVES:** A wife shall be classed as a resident student for registration purposes if her husband has had a bona fide residence in the State of Ohio for a period of at least twelve months preceding her registration and is a resident of the state at the time of her registration.

6. **LOSING OHIO CLASSIFICATION:** A student, who at time of entrance is classified as an Ohio resident, loses his Ohio classification if his legal residence is changed to another state, but not until one year has elapsed.

## 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, Master of Fine Arts, or Master of Business Administration 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.

The degree of Doctor of Philosophy will be granted in certain selected areas of study in the University. At present the program is limited to doctoral work in Chemistry.

### GENERAL REQUIREMENTS

**ADMISSION.** Students holding a bachelor's degree from an accredited college or university who have attained an undergraduate scholastic point-hour ratio of 2.5 or better on hours attempted, and preferably a 3.0 in the area of the proposed major, may be admitted and granted *regular status* in the Graduate College. (Point-hour ratio is computed on a 4-point system: A=4, B=3, C=2, D=1.) Further supporting evidence of the student's ability in the form of the Graduate Record Examination or other college ability tests and letters of recommendation may be requested.

Students holding a bachelor's degree from unaccredited institutions or persons whose undergraduate preparation is deficient will be required to supplement their undergraduate record with a satisfactory score on an acceptable standard college ability test.\*

Students with a master's degree will be admitted to graduate study with the amount of graduate credit accepted, by transfer, subject to review and recommendation by the graduate committee of the department concerned.

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.

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\*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 ability. 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, July, 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.

Students are accepted for admission to the University at the beginning of each of the semesters of the regular year and at the beginning of the eight-week summer session.

Application for admission consists of the presentation of an application blank filled in by the applicant, an official transcript of 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. The vaccination and medical history blanks are not required if a student plans to attend the summer session only as a special student.

A graduate student who is attending another university may be admitted for the summer session as a special transient student by presenting an official statement of good standing from the university in which he is enrolled. Admission for the summer session only as a special student does not constitute admission to the regular academic year.

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.

For information concerning application for living quarters, see "Living Arrangements" on page 13.

#### CLASSIFICATIONS OF STUDENTS ADMITTED TO GRADUATE STUDY

1. Those students approved by the major department and the Dean of the Graduate College for unqualified admission to graduate study are granted *regular status*.
2. Students admitted under the provisions of *special status* may include those who wish to pursue course work with no intention of qualifying for a degree, those students who are transient registrants, those who fail to qualify for admission to candidacy, and those with some deficiency in entrance requirements. Students in this last category may achieve regular status after the satisfactory completion of a prescribed program of study to remove deficiencies.

**SENIORS AND GRADUATE STUDY.** A student who is within 9 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 the 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, together with the Dean of the Graduate College, will assign a faculty adviser in the major and minor fields 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.

**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.

**APPLICATION FOR GRADUATION AND COMMENCEMENT EXERCISES.** The student must apply for graduation through the office of the Registrar in accordance with the date of the University Calendar. If the requirements for the degree are not fulfilled within the designated semester the student must reapply for graduation.

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 hoods are worn by the candidates as a part of the ceremony. The candidates will make their own arrangements for procurement of the appropriate academic costume through the campus agency provided for this service.

#### GRADUATE APPOINTMENTS

**GRADUATE ASSISTANTSHIPS AND FELLOWSHIPS.** A number of graduate assistantships and 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 graduate degree.

Graduate assistantships provide a stipend of ~~\$1400 to \$1500~~ for the academic year of two semesters and waiver of all fees, resident and non-resident, with the exception of a \$25 incidental fee. The graduate assistant is required to give approximately 18 hours of service weekly to the University, and is permitted to carry 9 to 12 hours of graduate work, the hours in excess of 9 being subject to the approval of the Dean of the

\$1600  
6/800

Graduate College and the chairman of the department in which the student is serving as an assistant.

The general registration fee 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 may, on the recommendation of his department, be reappointed for a second year at an increased stipend of \$1500 with waiver of the fee as noted above. Reapplication must be made annually.

Graduate assistantships are usually available to qualified students in the following fields: bacteriology, botany, chemistry, dramatic art and speech, economics, education, electrical engineering, English, fine arts, government, history, home economics (including nursery school), human relations, industrial arts, journalism, management, mathematics, music, philosophy, photography, physical education, physics, psychology, Romance languages, sociology, and zoology.

A number of teaching fellowships in chemistry leading to the doctorate are awarded to persons in advanced graduate study who have completed the master's degree or its equivalent and who have some teaching experience. The stipends, based upon both experience and teaching responsibility, range from \$1700 to \$2000 for two semesters of service with the same provisions for waiver of fees as the graduate assistantships.

Research fellowships are established on the basis of grants-in-aid to the University for the conduct of research. Appointees to these 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 9 to 12 semester hours of work toward their graduate program. In general, the stipend and waiver of fee will be the same as those of an assistantship.

Application for a graduate assistantship or a 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.

**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. Appointments will be made about April 1.

Graduate appointments are also available to married men, with no children, as Heads of Residence in the dormitories for men. The compensation for this service is a furnished apartment and board for the man and wife, a stipend of \$500 per year plus the waiver of fee as indicated for the graduate assistant. The Head of Residence will supervise the functions of the dormitory and coordinate the responsibilities of graduate assistants assigned to work with him. He is limited to 9 hours of course work per semester.

**SCHOLARSHIPS.** University scholarships are available to college graduates who have maintained a high scholastic record. These permit full-time study and pay the registration (resident or non-resident) fee. Information may be obtained by addressing the Director of Student Financial Aids, Ohio University, Athens, Ohio.

### THE MASTER'S DEGREE

**RESIDENCE AND CREDIT.** At least 32 semester hours of credit are required for the master's degree. A maximum of 8 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 6 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 6 hours of credit 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 session for the course work and the thesis. The normal 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 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.

**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 are required for the minor. The student is referred to the requirements listed by departments. 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 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.

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 9 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.

**REQUIREMENTS FOR THE MASTER'S DEGREE.** For the M.A., M.S., M.F.A., or M.B.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 *major course examination* on the subject matter of his major field, and (b) an *oral examination* on the thesis.

**EXAMINATIONS.** The *major course examination*, which must be taken approximately one month before the oral examination on the thesis, may be written or a combination written and oral examination as may be determined by the committee on graduate study in the department concerned. The student makes application for the examination through his major adviser. The chairman of the committee on graduate study or the major adviser shall arrange for and supervise this examination. 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. Within one week after the examination, the instructor in charge shall file a copy of the written examination questions and the student's examination papers in the office of the Graduate College, together with the report on the student's examination. A candidate who fails the major course examination may retake the examination at the discretion of the committee on graduate study in the department concerned.

An *oral thesis examination* shall be given not later than one week before the degree is to be conferred. The examining committee shall be

\*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 thesis. Students in applied music who take the M.F.A. degree may offer a public recital and a recording in lieu of thesis. Under the provisions of an option for the M.Ed. degree a thesis may become a requirement of the program for students working toward this degree. See above and, also, page 49.



composed of the director of the thesis as chairman, 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.

**THESIS.** The candidate prepares his thesis under the direction of his thesis director 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. 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 and style for writing the thesis and abstract is obtained in the office of the Graduate College.

A list of competent thesis typists is available in the Graduate College office. It is recommended that the manuscript be put in final typed form by one who has had experience in thesis typing.

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 Graduate College provides for editing of the manuscript before it is put into final typed form.

The finished typed copies of the thesis must be available one week prior to the date of the oral examination in order that adequate review of the manuscript may be made by the examining committee prior to the final oral examination.

After the thesis and abstract are approved by the Graduate College 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.

**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 thesis director and approved by the 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 rea-

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\*No thesis is required of the candidate for the M.Ed. degree under an option described in the course offerings of Education, page 49.

son 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. Application forms for admission to candidacy are obtainable at the Graduate College office.

**TIME LIMIT FOR THE MASTER'S 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 master's 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. An extension of time is automatically granted to those students whose programs have been interrupted by military service.

#### OUTLINE OF PROCEDURE FOR THE MASTER'S DEGREE

1. Admission to the Graduate College is secured in advance of the opening of the session in which graduate work is begun.
2. During the registration period confer with the Dean of the Graduate College relative to a program of study. The student will be referred to the chairman of the graduate committee or chairman of the department of major interest for assignment of adviser.
3. In consultation with the advisers the student is provided with a program of course work for the current semester. At the same time, the advisers, with the student, will formulate an outline of courses which is to become the basis of work for the master's degree. This outline must be submitted on a form provided by the Graduate College office and, when approved by the advisers, is to be returned to this office within a month after the program of study is begun.
4. A thesis topic is selected during the initial semester of study. This should be done in conference and consultation with the major adviser or the staff member of the department designated to serve as the thesis director.
5. Application for admission to candidacy must be made on completion of the first 12 hours of graduate study toward the degree. For those students not writing a thesis, application is made at the close of the session in which the first 12 hours are completed. Those students writing a thesis must file their application for candidacy no later than two weeks (one week in summer session) after the next session in residence following completion of 12 hours.
6. Application for graduation and payment of the graduation fee are made in the Registrar's office in accordance with the date given in the University Calendar. Failure to meet graduation requirements necessitates reapplication.
7. Examinations are taken as required under the plan chosen as prescribed on pages 22 and 23. The graduate student, whether thesis

- or nonthesis student, should make application through his major adviser at the proper time for his examination on the major course work. The committee for the oral examination on thesis will be constituted when the thesis is submitted in form for final typing, five weeks prior to the date of commencement. See regulation on page 22. Notices of all examinations will be sent to the student and committee members by the Graduate College.
8. When the thesis manuscript is ready for typing in final form the manuscript is brought to the Graduate College office for editorial review.
  9. Two copies of the finished thesis are filed in the library after securing the signature of the Dean of the Graduate College and after leaving one copy of the thesis and two copies of the abstract in the office of the Graduate College.
  10. The fees for binding copies of the thesis and printing the abstract are paid before the final week of the term. If a recital has been given, the fees for the recording and the printing of the program in the *Abstracts of Masters' Theses* are paid.

#### THE DOCTOR OF PHILOSOPHY DEGREE

The doctoral degree is granted on the basis of evidence that the candidate has achieved a high level of scholarship and proficiency in research rather than solely on the basis of successful completion of a prescribed amount of course work. The proficiency of the student and his ability to work independently and write creatively are established by a series of qualifying and comprehensive examinations and the quality of a dissertation submitted as an account of the student's original research.

**RESIDENCE AND CREDIT.** A minimum of six semesters of study and research beyond the bachelor's degree is needed to meet the requirements of the doctor's degree. At least two semesters of the doctoral program of study shall be in continuous residence at Ohio University, preferably the last semesters of study for the degree. The continuous residence requirement applies to the period of graduate study following the completion of the master's degree or the equivalent of 32 semester hours.

The amount of credit accepted by transfer from another university will be determined by the graduate committee of the department concerned and the Dean of the Graduate College.

**PROGRAM OF STUDY.** The graduate program for the doctor's degree will usually include, in addition to the major subject, at least two minor subjects of study, one of which may be in the field of the major with the other in a field distinct from but related to the major. The student will be assigned an adviser by the chairman of the major department who will outline the proposed program of study for the degree. The courses will be indicated on a special form supplied for this purpose and must be filed in the Graduate College office. A minor will normally involve a minimum of 12 semester hours of study.

**ADVISORY COMMITTEE.** During the first semester of the student's study the graduate dean will select a staff member from each area of minor study to serve with the adviser in the major field as the student's graduate advisory committee. The duties of this committee are defined in terms of the subsequent requirements for the degree.

**COMPREHENSIVE EXAMINATIONS.** Toward the end of the student's fourth full semester of graduate study, or when course work is virtually completed, and upon the recommendation of the student's advisory committee, arrangements are made through the Graduate College office for the comprehensive examination. This examination consists of both oral and written coverage of the areas of study pursued by the student in his graduate program and is given for the purpose of establishing the student's comprehension of the fields of specialization.

The committee for these examinations consists of the student's advisory committee and two members of the major department appointed by the chairman of the major department. Other members of the faculty are free to participate in the oral phase of this examination. Members of the committee will be notified of their responsibility from the Graduate College office.

**LANGUAGE REQUIREMENT.** Prior to admission to candidacy the student must give evidence of a reading knowledge of two foreign languages, usually French and German. However, the languages required may be established in terms of the student's interests and objectives. In certain areas of study a department may substitute another research tool for one language, such as demonstrated proficiency in statistics. Approval of such a substitution will require Graduate Council action.

The language examinations are given at stated intervals under the supervision of the language departments.

**ADMISSION TO CANDIDACY.** Upon successful completion of the comprehensive examinations, fulfillment of the language requirement, and approval of a research proposal by the Graduate Council, a student may by recommendation of the advisory committee be admitted to candidacy. Candidacy must be obtained at the beginning of the last two semesters of residency for the degree.

**DISSERTATION.** A dissertation which is the scholarly account of an investigation or research in a new area of knowledge is submitted by each candidate. The dissertation in form for final typing shall be presented to the director and major adviser six weeks in advance of the commencement date on which the candidate expects to receive the degree. At this time the dissertation examining committee and the date of an oral dissertation examination will be established.

No later than one week prior to the date of the oral examination at least three typed copies of the finished manuscript must be available for review by members of the examining committee. The first copy is brought to the Graduate College office for the member of the Graduate Council who will serve on the examining committee.

At least one week before the close of the semester in which the candidate receives his degree all approved copies of the dissertation,

together with two copies of an abstract of no more than 500 words, are submitted to the Dean of the Graduate College for final approval.

At this time the first and second copies of the dissertation and a copy of the abstract are filed with the university library. A binding fee of \$2.50 per copy and a microfilming fee of \$25.00 are to be paid to the treasurer of the University.

The first copy of the dissertation will be given to the University Microfilms for purposes of editing and microfilming and made available for use by inter-library exchange. It is then returned to the Edwin Watts Chubb Library at Ohio University. The abstract will be submitted to University Microfilms, Ann Arbor, Michigan, for publication in *Dissertation Abstracts*. The second copy of the dissertation will be bound by the library and submitted to the student's major department. If the student desires a bound copy of his dissertation, arrangements for this service may be secured through the library.

## THE COLLEGE OF APPLIED SCIENCE

**ENGINEERING.** A program of graduate study leading to the master's degree in electrical engineering with options in electronics, servomechanisms, automatic control, or power will be available in September, 1956. Programs in mechanical and civil engineering are scheduled to begin in September, 1957.

The departments of Architectural, Civil, Electrical, and Mechanical Engineering are accredited by the Engineers' Council for Professional Development. In the fall of 1949, the first wing of a new Engineering Building was completed. This building houses modern hydraulics and heat-power laboratories and two excellent electrical engineering laboratories which are devoted to electronics. A new wing of the Engineering Building is under construction and will be completed in 1957. Additional laboratories for all engineering departments will be included. The electrical-power laboratory, located in Science Hall, was recently refurnished with new equipment.

**HOME ECONOMICS.** The School of Home Economics offers a broad and extensive program in home economics and related fields leading to the master's degree. Major work at the graduate level is offered in four fields—*foods and nutrition, clothing and textiles, child development and family life* including nursery school training, and *home economics education*. The graduate student in home economics will find a well-qualified staff together with excellent laboratory facilities. Recent improvements providing a more extensive program at the graduate level include a new foods laboratory with well-equipped unit kitchens, an experimental foods laboratory, a nutrition and textile chemistry laboratory, a workshop for home furnishings, and a laboratory for home economics education.

**INDUSTRIAL ARTS.** The basic objective of this department is to serve teachers who desire to upgrade their work by more intensive study in the field of industrial arts. The graduate courses have been developed to give the latitude necessary to meet the variations in undergraduate

preparation and in the student's professional objectives. Well-equipped laboratories, under the supervision of competent faculty, are available in metals, wood, printing, electricity, and power. An advanced workshop in driver education for in-service teachers has been conducted as part of the summer session offerings of this department.

## THE COLLEGE OF ARTS AND SCIENCES

Scientific research has grown to be one of man's most important activities. Through advanced study and research, important new areas of service are open to the student. The University is still the main proving ground for the research worker. Each department in the College of Arts and Sciences is especially concerned that the graduate student learn sound methods of independent study and research of such quality as to prepare him for work in industry, or teaching, or to continue his studies at the doctoral level.

Properly qualified students may pursue graduate study leading to the doctor's degree in chemistry and either the Master of Arts or the Master of Science degree with a major or minor in any one of the following sixteen departments in the College of Arts and Sciences: botany, chemistry, Classical languages, English, geography and geology, German, government, history, human relations, mathematics, philosophy, physics, psychology, Romance languages, sociology, or zoology. The members of the faculty recognize the needs of students by formulating programs of study which draw upon the resources of two or more departments within the College or in another college or division of the University. Usually programs can be arranged to permit a major in one of the departments in the College and a minor in one, or joint minors in two other departments, either in this College or in some other college or division of the University.

Members of the faculty in the College of Arts and Sciences assigned to direct the work of graduate students have, through work on special projects and other scholarly accomplishments of their own, demonstrated their fitness and special interests in their respective fields which qualify them for teaching and directing individual study at more advanced levels.

## THE COLLEGE OF COMMERCE

In keeping with the economic, industrial, and business expansion of the nation, the College of Commerce offers opportunities for graduate study. Executives in business, communications, and industry are seeking college graduates who have master's degrees. The research and specialized study required in advanced work develop the initiative, self-reliance, and judgment needed in positions of greater leadership.

Properly qualified students may pursue graduate study leading to the degree of Master of Business Administration. The general require-

ment of the degree is the satisfactory completion of at least 32 hours of work carrying graduate credit including the thesis (4-6 credit hours), or, where applicable, a report on an internship experience equal in quantity and quality of work to a thesis.

A minimum of 12 semester hours of work plus the thesis constitutes a major. Areas of study in which major fields may be developed are accounting, economics, finance, management, and marketing-advertising. Thus, with the thesis, a minimum of at least fifty per cent of the total credit for the degree is required in the major field. Normally, no graduate student will be permitted to study exclusively in his field of major interest. The student's individual program will be arranged by his major adviser and approved by the College of Commerce Committee on Graduate Study. Work outside the major field of interest may be taken in any of the areas of accounting, economics, finance, management, marketing-advertising, and statistics. A student may take courses in other departments of the University if such courses supplement his major program. Usually, a student will be limited to 6 semester hours of study outside the College of Commerce.

The requirement for admission to the M.B.A. program is an undergraduate degree from an accredited school. If the undergraduate degree is in commerce or business, the general requirement of 32 semester hours of work as described above will satisfy the requirements for the degree unless the student lacks certain specific prerequisites.

A student, who does not possess an undergraduate degree in business or commerce, must accumulate a total of 30 semester hours of undergraduate credit in commerce with some work in each of the areas of accounting, economics, finance, marketing or advertising, statistics, business law, and management. Therefore, a student who has had no work in commerce or business will need two years to complete the requirements for the Master of Business Administration degree. If he does not have an undergraduate degree in commerce but has elected some work in the area, then his undergraduate commerce requirements may be reduced to the extent that such work constitutes fulfillment of the requirements stated. In addition, the student may be required to take additional undergraduate courses which are prerequisites to graduate level courses. In rare cases, exceptions may be made to these rules with the approval of the College of Commerce Committee on Graduate Study for mature students who have demonstrated business ability.

Seminars and research courses are available for a College of Commerce graduate with the Bachelor of Science in Commerce degree who desires more work in his undergraduate area of concentration. This work may include individual enrollment and personal supervision of advanced readings or study or field work in the subject area.

Every effort will be made to assist the student to choose a program designed to fit his particular needs and desires whether he plans to continue his graduate study or obtain a position in business.

Journalism has five areas or sequences available for graduate study leading to the Master of Science degree: *advertising-management, feature and pictorial journalism, news writing and editing, public relations, and radio-TV journalism.* The School of Journalism has its own com-

plete laboratory facilities and also has access to the offices and equipment of the independently-owned daily, *The Athens Messenger*. United Press wire service, an AM and FM radio station, type laboratory, and engraving plant are a part of the university equipment available.

Graduate study in economics leading to the Master of Arts degree provides, through advanced work in economic theory, the essential background for work in business and government in the fields of economic and market analysis. Many who receive the master's degree in economics elect to continue their graduate work at other institutions where the sound foundation they receive at Ohio University gives them the necessary background for successful study and research.

Through a combination of courses in secretarial studies and education, the Department of Secretarial Studies provides for a graduate major in business education.

## THE COLLEGE OF EDUCATION

Graduate work in education is primarily for the purpose of providing advanced professional education to school administrators, supervisors and teachers. Among the types of positions for which Ohio University offers graduate instruction are:

- School administration—the school superintendency
- High school administration—the principalship
- Elementary school administration—the principalship
- School supervision—directors of instruction and curriculum
- Secondary school teaching
- Elementary school teaching
- Guidance counseling and administration of guidance services

Recommended course programs for such specializations are outlined in this bulletin in the section devoted to the offerings of the College of Education.

In addition to certain positions for which preparation is specifically directed, a wide selection of courses may be arranged for the student who desires a broader, less specialized training.

In providing such instruction the University offers not only the appropriate courses but also practical field experience. This is done through the work of the Center for Educational Service, the facilities of the University Elementary School, and the field experiences provided in cooperation with various school systems.

A student majoring or minoring in education is assigned an adviser who is a specialist in the student's field of interest. With the assistance of this adviser the student plans a program suited to his needs and professional plans.

### THE CENTER FOR EDUCATIONAL SERVICE

The Center for Educational Service is designed to make available the resources of the College of Education and of the University to edu-



cational workers—teachers, administrators and supervisors. These resources 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, economic education, guidance programs, school-community relations, and supervisory and administrative problems. Such consultant 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.

The resources of the Center for Educational Service and the projects which it conducts offer opportunities for graduate students in the use of these practical materials and in participation in field studies of realistic school problems.

## THE COLLEGE OF FINE ARTS

**DRAMATIC ART AND SPEECH.** The program of dramatic art and speech is centered in the new Speech and Theatre Building, equipped with modern facilities for the University Theatre, the University Speech and Hearing Clinic, the radio station—WOUI—AM and FM, and special rooms for the forensics program. Graduate students may participate in production, directing, technical work, costuming, make-up, house-management or promotion of the presentations of the University Theatre. The productions of the University Playshop, directed by graduate students under faculty supervision, include one-act plays, experimental scripts, and the "Great Play" series. Each year two full-length plays are given as part of a four-year cycle representative of each of eight periods in the history of drama. The Ohio Valley Summer Theatre provides similar experiences for graduate students.

Graduate students in speech correction acquire firsthand experience in working with all types of defective speech in both the university clinic for students and the children's clinic. Mature students may be given some supervisory responsibility.

An extensive program of first-year debating and varsity intercollegiate debating for both men and women, together with intercollegiate contests in oratory and interpretation, provides ample opportunities for graduate students in public address to gain practical experience in the direction of a forensics program.

**RADIO.** Ohio University operates a campus "carrier current" AM station providing programs of particular interest for the student body and a ten-watt educational FM station which serves the city of Athens and the surrounding territory. 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.

**PAINTING AND ALLIED ARTS, PHOTOGRAPHY.** Programs of study are provided to meet the needs and preparation desired by the graduate student. Fields of interest and training can be selected from art history, commercial design, decorative design, industrial design, painting, illustration, photography, sculpture and ceramics. As special offerings, several short courses are taught by nationally recognized artists. In the past few years visiting artists, associated with the summer program of the department, have included John Carroll, the late Yasuo Kuniyoshi, Charles Burchfield, Aaron Bohrod, and Ben Shahn.

**MUSIC.** The School of Music offers degrees of Master of Fine Arts, Master of Education, and Master of Science. For the degree of Master of Fine Arts the major field may be in composition, music literature, music education, or applied music (voice, piano, violin, cello, brass, woodwind, and percussion instruments). For the Master of Science degree, a joint program of training in music therapy and psychotherapy is offered. The Master of Education degree may be granted to those majoring in music education.

## THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

Graduate study assists teachers to qualify for advancements and larger responsibilities in their chosen fields. Administrators, supervisors, college instructors and teachers in the larger secondary schools are generally selected from those who have had some experience and have extended their study beyond the bachelor's degree.

Students who want graduate study in physical education and the related subjects of health education and recreation may combine these interests into a major of 12 to 16 course hours and a thesis. One or two other areas will be associated with this major to complete 32 course hours including the thesis.

Associated areas or minors may be selected from any graduate course offerings in the University, with the understanding that a minimum of 6 or more hours of prerequisite study are usually required before graduate study is permitted.

The following minors are commonly selected: educational administration, history, human relations, social science, biological science, psychology, or industrial arts. The student, however, is in no way limited to these areas.

If the student has had an extensive and thorough undergraduate major in physical education, it may be best to take a minimum of 12 hours in the graduate major plus a thesis and reserve about 16 hours for one or two minors.

The candidate must have had, or be willing to complete as a prerequisite to graduate study, the equivalent of the Ohio certified teaching minor of 24 credit hours, distributed in health education, program skills, athletic coaching, principles, organization, and administration of physical education, and biological life sciences.

## THE SUMMER SESSION

The Ohio University Summer Session is a regular part of the academic program, and course offerings represent a cross section of the total program of the University in all of its divisions. In many areas there are increased course offerings on the graduate level.

The summer program affords many graduate students, particularly teachers and school administrators, an opportunity to engage in advanced study. An increasing number of graduate students, beginning their work in the regular sessions, consider it desirable to maintain the continuity of their program of graduate studies and have found the summer facilities of the laboratories and the library most conducive for research.

The Summer Session provides for eight weeks of study. Opportunities for further study after the close of the eight-week session are offered when there is sufficient demand and when instructional services are available. Little, if any, work on the graduate level is offered during this latter period. Students are sometimes permitted to register for a conference course or for thesis work, with the approval of the instructor. Laboratory work in the School of Journalism is usually available.

Each year the Summer Session provides a number of special features of interest to special groups. These include workshops and conferences of various kinds intended for college and high school students. Some of these activities are of interest primarily to adults who are not otherwise interested in regular academic work on the college level. The specific activities of this type offered during any given summer depend upon expression of interest, popularity of previous offerings, and availability of facilities. As a sample of the possibilities, the short-time activities offered in recent summers are listed below. Many, but not all of these, will be repeated in the Summer Sessions of 1956 and 1957.

Music Clinic-Workshop

High School Publications Workshop

Conference on Elementary Education

Conference on Educational Administration

Conference on World Affairs  
 School Textbook Exhibit  
 Special Classes in Painting  
 Workshop in High School Debate  
 Summer Theatre  
 Workshop in Elementary School Music  
 Workshop in Driver Education  
 Workshops in Home Economics  
 Workshop in Economic Education  
 Travel-Study Workshop in France or Spain  
 Ohio School of Banking  
 Executive Development Program

The regular faculty is supplemented by visiting professors and lecturers who greatly enhance the diversity of subject matter and training 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.

## PICTURES IN THE BULLETIN

*(In order of appearance)*

*Alumni Memorial Auditorium and McGuffey Elms*

*The "1804 Lounge," Ohio University Center*

*Frontier Room Terrace, Ohio University Center*

*Bryan Hall—A Residence Hall for Girls*

*A Chemistry Laboratory*

*Scene from a Playshop Production*

*A Zoology Laboratory*

*The Natatorium*

## COURSES OF INSTRUCTION

## EXPLANATION

**CATALOG NUMBER.** The catalog number indicates student classification for which the course is intended.

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.

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.** 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. The normal load for an eight-week summer session is just half of that for a semester, while the number of recitations and laboratory periods is approximately double that of a semester. The credit hours applicable to any given course taken in an eight-week summer session are therefore the same as for a full semester (16 weeks).

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 of 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), usually indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course. In those instances where a student may enroll for a course with a variable credit a number of times, the maximum credit available will be indicated in the course description.

**COURSE PREREQUISITES.** The minimum undergraduate preparation for beginning graduate study is stated at the head of each subject matter field. Specific requirements are indicated at the end of course descriptions following the abbreviation, "Prereq." Undergraduate prerequisites are referred to by course titles as well as numbers. Graduate level prerequisites are indicated by number only since their description is given within this bulletin.

**CLASS SCHEDULE.** A Schedule of Classes is published for each session 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 Professors Reininga, Grinaker

In order to begin a graduate major or minor in accounting, a student should have at least 30 hours in commerce and/or economics, including Intermediate and Cost Accounting.

- 305-306. **ADVANCED ACCOUNTING** (3-3) Grinaker  
 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.
343. **FEDERAL INCOME TAX ACCOUNTING** (4) Reininga  
 A study of the current Internal Revenue Code with particular attention to Federal income taxes, including withholding taxes, and administrative procedure.
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.
356. **AUDITING PRINCIPLES AND PRACTICE** (3) Beckert  
 Purposes and scope of audits and examinations; audit principles and procedures; application of audit principles to practice material based on actual audit; and audit reports and certificates.
378. **C.P.A. PROBLEMS** (3) Reininga  
 The accounting profession; C. P.A. coaching; analysis, interpretation, and solution of state board problems. Prereq., 305-306 and 356.
379. **CONTROLLERSHIP** (3) Reininga  
 Case method study of problems and policy-forming decisions of the controllership function comprising the fields of general accounting, internal control, budgeting, taxes, cost control, and financial reporting. Prereq., 18 hrs. including 224—Standard Costs and Budgets.
381. **RESEARCH IN ACCOUNTING** (1 to 8) The Staff  
 Prereq., 224—Standard Costs and Budgets, 305-306, and permission.
391. **SEMINAR IN ACCOUNTING** (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.

**ADVERTISING**—See Marketing-Advertising

## ARCHITECTURE

Associate Professor Denison  
 Lecturer LeBoutillier

301. **PROBLEMS IN ARCHITECTURE** (1 to 3) The Staff  
 Supervised individual projects. Maximum credit in course, 12 hrs.
375. **ARCHITECTURE IN THE UNITED STATES** (2) Denison  
 Development of architecture from colonial times. Importance of European influence. Prereq., 8 hrs. including F.A. 175-176—History of Architecture, or equivalent.

## ART

Professors Mitchell, Way  
Associate Professors Willis, Work  
Assistant Professor C. L. Smith  
Instructors Olpp, Hostetler, D. O. Roberts, Shechter  
Lecturer Mutchler

To begin a graduate major or minor in the School of Painting and Allied Arts, a student must present at least twelve hours of undergraduate credit in the field of the major or the minor.

## ART HISTORY

303. ITALIAN RENAISSANCE PAINTING (3) Olpp  
Painting in Italy from the early Florentine and Siense schools through the fifteenth and sixteenth centuries. Prereq., F.A. 121-122—History of Painting and Sculpture.
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. 121-122—History of Painting and Sculpture, and F.A. 175-176—History of Architecture.
- 381-382. CONTEMPORARY ART (3-3) Olpp  
Present tendencies related to development since 1850. Emphasis on painting and sculpture. Prereq., F.A. 121-122—History of Painting and Sculpture and permission.
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. 121-122—History of Painting and Sculpture, and permission.

## DESIGN

301. PROBLEMS IN DESIGN (1 to 3) The Staff  
Maximum credit in course, 9 hrs. 3-9 lab. Prereq., permission.
313. ADVANCED INTERIOR DESIGN (3) Way  
Research stressed and original adaptations made from styles of important periods. Maximum credit in course, 12 hrs. 2 lec., 4 lab. Prereq., 271-272—Interior Design, and permission.
- 317-318. ADVANCED ADVERTISING DESIGN (3-3) Smith  
Magazine, newspaper, direct mail, and display layout. 6 lab. Prereq., 107—Advanced Design; 113—Lettering; 147-148—Advertising Design; Paint. 75—Representation; Advt. 155—Advertising Principles.
321. ADVANCED FASHION DESIGN AND ILLUSTRATION (2) Way  
Maximum credit in course, 10 hrs. 1 lec., 3 lab. Prereq., 137—Fashion Design; Paint. 128—Advanced Figure Drawing.
325. ADVANCED JEWELRY (2) Willis  
Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 1, 2—Basic Design, or 91—Design and Composition, or 102—Applied Design; 123—Jewelry.

- 351-352. INDUSTRIAL DESIGN (2-2) Shechter  
 Design and presentation of industrial products with emphasis on function, appearance, and material. 4 lab. Prereq., Paint. 28—Figure Drawing; Sculp. 231—Sculpture.
381. RESEARCH IN DESIGN (1 to 5) The Staff  
 Maximum credit in course, 10 hrs. 3-15 lab. Prereq., 15 hrs. and permission.
491. SEMINAR IN DESIGN (1 to 5) The Staff  
 Maximum credit in course, 10 hrs. Prereq., 18 hrs. and permission.
495. THESIS (1 to 6) The Staff  
 Prereq., permission.

## PAINTING AND DRAWING

- 309-310. PRINTS (3-3) Roberts  
 Silk screen, linoleum and wood blocks, etchings, aquatint dry point, lithography, and other related subjects. 2 lec., 4 lab. Prereq., 12 hrs. and permission.
315. ADVANCED FORM AND COMPOSITION (2) Willis  
 Maximum credit in course, 4 hrs. 4 lab. Prereq., 117—Form and Composition and permission.
328. LIFE DRAWING (3) Mutchler  
 Maximum credit in course, 12 hrs. Prereq., 128—Advanced Figure Drawing, or permission.
341. ADVANCED PAINTING (2 or 3) Mitchell, Mutchler  
 Way, Willis, Work  
 Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.
- 365-366. ILLUSTRATION (3-3) Mutchler  
 Accent on student practice. Story and commercial illustration using present-day techniques. Prereq., 328 and permission.
431. ADVANCED PICTORIAL COMPOSITION (3 to 6) The Staff  
 Emphasis on visual organization using generally accepted media. Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.
436. DECORATIVE COMPOSITION (3) The Staff  
 Advanced techniques in graphic or plastic execution. Maximum credit in course, 12 hrs. 9 lab. Prereq., 20 hrs. and permission.
491. SEMINAR IN PAINTING (1 to 5) The Staff  
 Maximum credit in course, 10 hrs. Prereq., 20 hrs. and permission.
495. THESIS (1 to 6) The Staff  
 Prereq., permission.

## SCULPTURE AND CERAMICS

301. PROBLEMS IN PLASTIC DESIGN (2 or 3) Hostetler  
 Maximum credit in course, 12 hrs. Prereq., permission.
316. ADVANCED CERAMICS (3) Hostetler  
 Advanced pottery production methods. 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., 115-116—Ceramics, and permission.



327. ENAMELING (2) Hostetler  
Design and construction of metallic objects toward ceramic application of enamels. 1 lec., 3 lab. Prereq., 115—Ceramics; Design 123—Jewelry.
495. THESIS (1 to 6) The Staff  
Prereq., permission.

**BOTANY** Associate Professors Blickle, Wallace (chairman), Gambill  
Assistant Professors Vermillion, Boyce

To begin a graduate major in botany the student must have completed a minimum of 24 hours in botanical courses including the following fields of preparation: morphology, 6 hours; physiology, 7 hours; systematic botany, 6 hours; and approved equivalents.

To begin a graduate minor in botany the student should have completed a minimum of 12 hours in approved course work in botany and/or zoology.

304. FOREST ECOLOGY (3) Boyce  
The ecological foundations of forestry, site factors, the forest environment and methods of studying it, growth and development of trees and stands; the origin, development, and classification of forest communities. 2 lec., 2 lab. Prereq., 105—Elementary Plant Physiology, and 106—Local Flora, or 108—Vegetation of North America, or 117—Dendrology, and 203—Plant Ecology. (2nd sem., 1957-1958.)
307. ADVANCED PLANT PHYSIOLOGY (4) Wallace  
An advanced study of plant processes with special emphasis on techniques employed in research. 2 lec., 4 lab. Prereq., 105—Elementary Plant Physiology, and a course in organic chemistry. (2nd sem., 1956-1957.)
311. PALEOBOTANY (3) Blickle  
A study of the fossil representatives of the greater plant groups and the sequence of fossil floras throughout geological time. Two Sat. field trips required. Prereq., 117—Dendrology, or 173—Elementary Plant Morphology, and 3 hrs. geology. (2nd sem., 1956-1957.)
314. ADVANCED PLANT MORPHOLOGY (3) Blickle  
A course specifically for botany and forestry majors embodying detailed analyses of seed plant gross structures and their comparative evolutionary relations. 2 lec., 2 lab. Prereq., 173—Elementary Plant Morphology. (2nd sem., 1956-1957.)
315. SYSTEMATIC BOTANY (3) Gambill  
A study of the systematics, nomenclature and phylogeny of the higher plants beginning with ferns; relationship of the principal orders and families; problems of nomenclature; identification of specimens. 2 lec., 2 lab. Two Sat. field trips required. Prereq., 106—Local Flora. (1st sem., 1956-1957.)
316. TAXONOMY OF THE NONVASCULAR PLANTS (3) Gambill  
A course dealing with the classification and phylogeny of the bryophytes and lichens. 2 lec., 2 lab. Two Sat. field trips required. Prereq., 106—Local Flora and 173—Elementary Plant Morphology. (2nd sem., 1957-1958.)
318. WOOD TECHNOLOGY (3) Blickle  
The structure, identification, properties and uses of North American forest products, with special attention given to the macroscopic and microscopic structure. 1 lec., 4 lab. Prereq., 117—Dendrology and 211—Plant Anatomy. (2nd sem., 1957-1958.)

## 324. FOREST PATHOLOGY

(3) Vermillion

A study of the various types of diseases of forest species, their economic importance, prevention and control. 2 lec., 2 lab., Prereq., 117—Dendrology and 123—Introduction to the Fungi, or 221—Plant Pathology. (2nd sem., 1956-1957.)

## 325. MYCOLOGY

(3) Vermillion

A course designed to acquaint the student with ways in which man makes use of fungi in agriculture, medicine, and industry. The physiology of fungi is stressed. 2 lec., 2 lab. Prereq., 123—Introduction to the Fungi and 1 yr. of college chemistry. (2nd sem., 1957-1958.)

## 343. BOTANICAL STUDIES (2 to 4 a semester in any of the following)

Semi-independent studies supervised by the instructor. May include inter-departmental projects. Maximum credit in any listed area, 4 hrs., total 8 hrs. Prereq., 12 hrs. including a course fundamental to the area of study, and permission.

- a. *Plant Morphology*—studies of the fundamental plant form, structure, life cycles, and reproduction. *Blickle*.
- 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. *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, 6 hrs. Prereq., 18 hrs. and permission.

## 391, 392. SEMINAR IN BOTANY

(1, 1) The Staff

Advanced study and original research. Required of graduate students each semester in residence. Prereq., 12 hrs. and permission. (Yearly.)

## 495. THESIS

(1 to 6) The Staff

Prereq., permission.

## BUSINESS EDUCATION

Associate Professor Sponseller (chairman)

Assistant Professors Via, Appel, Weaver

Acting Assistant Professor Dalton

Instructor Lunn

The student interested in a major in business education should enroll in Plan B of the program for the Master of Education degree. In addition to having met the entrance requirements for this program, the student planning to major in business education should have completed at least 28 hours or the equivalent in commerce and secretarial subjects.

The student planning to minor in business education should have completed 20 hours or the equivalent in commerce and secretarial subjects.

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.
387. **RESEARCH IN BUSINESS TEACHING PROBLEMS** (1 to 8) The Staff  
Prereq., permission.
391. **SEMINAR IN BUSINESS TEACHING PROBLEMS** (2 to 4) The Staff  
Maximum credit in course, 10 hrs., Prereq., 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., permission.  
Other courses to make up the total hours required for a major or minor may be selected, according to the student's interest and background and on the advice of the counselor, from the graduate offerings in commerce and education.

**BUSINESS LAW**

Assistant Professor Howard (chairman)

342. **LAW OF REAL ESTATE** (2) Howard  
Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 255-256—Business Law.
381. **RESEARCH IN LAW** (1 to 8) Howard  
A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce, including 255-256—Business Law, and permission.

**CERAMICS—See Art****CHEMISTRY**

Professors Clippinger, Eblin (chairman)  
Associate Professors Day, Huntsman  
Assistant Professors Kline, Ingham, Curry,  
Sympson, Smith, Brooks

To begin a graduate major in chemistry the student must have completed a full year's work in Quantitative Analysis (8 hours), Organic Chemistry (10 hours), and Physical Chemistry (6 hours). Calculus (8 hours) and Physics (8 hours) are also required.

The minimum undergraduate preparation for a graduate minor in chemistry includes General Chemistry and introductory courses in analytical and organic chemistry.

Students beginning graduate work in chemistry are required to take a qualifying examination covering elementary inorganic, analytical, organic and physical chemistry. This examination is administered during registration week and the results are consulted in planning the course work of the students. Students are invited to familiarize themselves with the type and style of examination questions prior to the beginning of their graduate work. Sample questions and additional information about the examination are available upon request from the chairman of the Department of Chemistry.

305. ADVANCED QUANTITATIVE ANALYSIS (4) *Sympton*  
 Methods of instrumental analysis. Colorimetry, spectrophotometry, electrometry, and polarography. Prereq., 109-110—Quantitative Analysis and permission. (Yearly.)
- 313-314. PHYSICAL CHEMISTRY (3-3) *Eblin*  
 Not open to graduate students majoring in chemistry. Prereq., 109-110—Quantitative Analysis or permission, Math. 102—Integral Calculus, and Phys. 5, 6—Introduction to Physics, or Phys. 113-114—General Physics. (Yearly.)
- 315-316. PHYSICAL CHEMISTRY LABORATORY (2-2) *Eblin*  
 6 lab. Prereq., 313 or with 313. (Each semester.)
317. CHEMICAL THERMODYNAMICS (3) *Brooks*  
 Prereq., 314. (1st sem., yearly.)
321. QUALITATIVE ORGANIC ANALYSIS (4) *Huntsman, Ingham, Smith*  
 The separation and identification of organic compounds. Preliminary to research in chemistry. 2 lec., 6 lab. Prereq., 203-204—Organic Chemistry Laboratory. (1st sem., yearly.)
- 329-330. PRINCIPLES OF UNIT OPERATIONS (3-3) *Curry*  
 Fundamental principles of unit operations with problems to illustrate the principles. Prereq., 210—Stoichiometry, and 313 or with 313. (Yearly.)
- 331, 332. UNIT OPERATIONS LABORATORY (2, 2) *Curry*  
 Laboratory practice in heat transfer, filtration, distillation, etc. Prereq., (for 331) 329 or with 329; (for 332) 330 or with 330. (Yearly.)
333. INORGANIC CHEMISTRY (3) *Kline*  
 Inorganic chemical reactions and structure. Prereq., 109-110—Quantitative Analysis or 201-202—Organic Chemistry. (1st sem., yearly.)
337. INORGANIC CHEMISTRY LABORATORY (2) *Kline*  
 Practical laboratory work in inorganic chemistry including the preparation of typical inorganic substances and an introduction to the chemical literature. Prereq., 333 or with 333. 6 hrs. lab. (Yearly.)
351. SPECIAL PROBLEMS IN CHEMISTRY (2 or 3) *The Staff*  
 Minor research with laboratory and library work. Maximum credit in course, 6 hrs. Prereq., 24 hrs. with a B average in chemistry. (Given on sufficient demand.)
418. CHEMICAL KINETICS (3) *Day*  
 Some insight into the mechanisms by which chemical reactions occur, and the energies involved, through interpretation of data on rates of reactions. Prereq., 314. (2nd sem., yearly.)
434. ADVANCED INORGANIC CHEMISTRY (3) *Kline*  
 Modern theoretical inorganic chemistry. Prereq., 333. (2nd sem., yearly.)
444. ADVANCED ORGANIC CHEMISTRY (3) *Huntsman, Ingham, Smith*  
 Modern aspects of organic chemistry with emphasis on the relationships between structure and reactivity. Prereq., 201-202—Organic Chemistry. (2nd sem., yearly.)
- 451, 452. SEMINAR IN CHEMISTRY (1, 1) *The Staff*  
 Selected topics. Required of all graduate students in chemistry each semester in residence. (Yearly.)

481. RESEARCH IN CHEMISTRY (1 to 4) The Staff  
Prereq., 36 hrs.
495. THESIS (1 to 4) The Staff  
Prereq., permission.

Additional course offerings will include Advanced Organic Chemistry II, Physical Organic Chemistry, Statistical Thermodynamics, and special topics in Organic and in Physical Chemistry.

## CIVIL ENGINEERING—See Engineering

## CLASSICAL LANGUAGES Associate Professor Murphy (chairman) Instructor Traub

Major work on the graduate level in Greek and Latin is not offered at present.

The prerequisite for a graduate minor in Latin shall be 12 hours of Latin above two high school units.

The prerequisite for a graduate minor in Greek shall be 12 hours of Greek.

### GREEK

309. ADVANCED GREEK READINGS (1 to 3) Murphy, Traub  
Selections from the poets, dramatists, orators, and philosophers to fit the interests and needs of students. Maximum credit in course, 9 hrs. Prereq., 12 hrs. (Given on sufficient demand.)

### LATIN

303. PLINY AND MARTIAL (3) Murphy  
Letters and epigrams revealing the human side of Roman life and society from Nero to Trajan. Prereq., 152—Horace and Terence. (1st sem., 1957-1958.)
304. LIVY AND OVID (3) Murphy  
The legendary history of early Rome and mythology in verse. Prereq., 152—Horace and Terence. (2nd sem., 1957-1958.)
311. CICERO (LETTERS) AND CATULLUS (POEMS) (3) Traub  
Prereq., 152—Horace and Terence. (1st sem., 1956-1957.)
318. READINGS IN LATIN LITERATURE (1 to 4) Murphy, Traub  
Selections from a wide range of Latin literature according to the needs and interests of students. Maximum credit in course, 10 hrs. Prereq., 152—Horace and Terence. (2nd sem., 1956-1957.)
331. THE LIFE OF THE ROMANS\* (2) Traub  
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. in history and antiquities. (2nd sem., 1956-1957.)
333. ADVANCED LATIN SYNTAX (2) Murphy  
Prereq., 152—Horace and Terence. (Given on sufficient demand.)
340. SPECIAL WORK IN LATIN (1 to 4) Murphy, Traub  
Individual work under careful guidance. Maximum credit in course, 8 hrs. Prereq., 152—Horace and Terence.

\*No knowledge of Latin required.

## DESIGN—See Art

## DRAMATIC ART AND SPEECH

Professors Staats,  
Kantner (director), Seigfred, Andersch  
Associate Professors Jukes, LaFollette  
Assistant Professors Lane, Wiseman, Penson, Hahne  
Instructors Ludlum, Greer, Bernard, Catalano, Trisolini, Johnson

Prospective graduate students in dramatic art and speech should present a minimum of 18 hours of undergraduate work, including basic speech courses and courses in public address, speech correction, theatre, and radio. Those accepted with less than the minimum will be required to make up the deficiency through further work at the undergraduate level or additional graduate courses, depending upon the needs of the individual student. A student who wishes to concentrate his graduate work in a given area, such as radio or speech correction, will be expected to make up undergraduate deficiencies in his special field, even though he presents the minimum of 18 hours of undergraduate work in other phases of speech.

In order to qualify as a graduate minor in a given area of dramatic art and speech, a student will be expected to meet the prerequisites to the 300 level courses which he plans to take in the respective areas.

## DRAMATIC ART

## 300. ADVANCED ACTING (3) Lane

Creation of roles in plays of different types, styles, and periods. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec., 4 lab. Prereq., 99-100—Movement and Pantomime, 299—Principles of Acting, Speech 34—Oral Interpretation of Literature, 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., 4 lab. Prereq., 12 hrs. including 21—Elements of Stage Scenery, and 323.

## 321, 322. DRAMATIC COMPOSITION (3, 3) Trisolini

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. of 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., 4 lab. Prereq., 21—Elements of Stage Scenery; Paint. 5—Basic Representation, or with 5, 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., 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. 179-180—History of the Visual Theatre, and permission.

355. THEATRE MANAGEMENT (2) Seigfred  
 Organization and business management of theatres. Prereq., permission.
425. CONTEMPORARY THEATRE (3) Lane  
 The trends of modern world theatre beginning with the contributions of Saxe-Meiningen and the growth of realism. Prereq., 18 hrs., including F.A. 179—History of the Visual Theatre, or equivalent.
435. ADVANCED LIGHTING (3) Catalano  
 Lighting design, history of stage lighting. Advanced technical consideration of instruments, control equipment and color media. Production experience. 2 lec., 2 lab. Prereq., 21—Elements of Stage Scenery; 123—Elements of Stage Lighting; 323 or with 323 or equivalent.
481. SEMINAR IN DIRECTING OR THEATRE MANAGEMENT (3 or 4) The Staff  
 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  
 Independent research projects in scene design, lighting, scenery construction or costuming. To 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.

RADIO

301. PRINCIPLES OF TELEVISION PRODUCTION (3) Johnson  
 History of television; its impact upon society and other media of communication; production aspects of television; general principles of transmission and reception. Prereq., 10 hrs. 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—Advertising Principles, or permission.
316. WRITING FOR RADIO AND TELEVISION (2) Johnson  
 Writing of scripts including dramatizations of human interest stories, continuity, straight and dramatized commercials, original and adapted short sketches and stories. Prereq., 12 hrs. of radio and journalism, or 12 hrs. English.
347. ADVANCED RADIO WORKSHOP (1 or 2) Greer  
 Rehearsal, performance, and technical work connected with radio broadcasting. Maximum credit in course, 4 hrs. Prereq., 8 hrs. including 247—Radio Workshop.
375. PROGRAM PLANNING AND BUILDING (3) Johnson  
 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., 125-126—Radio Play Production; 309 or equivalent.

491. SEMINAR IN RADIO AND TELEVISION (2) Jukes, Johnson  
 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. and permission.
495. THESIS (1 to 6) The Staff  
 Prereq., permission.

## SPEECH

302. ADVANCED ORAL INTERPRETATION (3) Hahne  
 The developing of skill in oral rendition of the short story, essay, monologue, and various forms of poetry. Preparation of programs for public recitals. Prereq., 34—Oral Interpretation of Literature.
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.
309. RHETORICAL THEORY (3) Staats  
 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—History of Oratory, or permission.
325. DIRECTION OF FORENSIC PROGRAMS (3) Wiseman, Ludlum  
 Organization of forensic programs in high schools and colleges, management of inter-school contests and tournaments, coaching of debate, discussion and individual events, and principles of judging. Practical application in the university forensic program. Prereq., 25—Principles of Argumentation; 305 or equivalent.
401. INTRODUCTION TO GRADUATE WORK (3) Kantner  
 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—Advanced Public Speaking; F.A. 203-204—History of Oratory, 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.



SPEECH CORRECTION

307. CLINICAL METHODS (3) Bernard

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., 195—Principles of Speech Correction.

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—Principles of Speech Correction.

312. PHONETICS (3) Kantner

The study of speech sounds from sociological, physiological and acoustical points of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Prereq., 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 conservation programs. Prereq., permission.

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 SPEECH DISORDERS (3) Penson

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., 310, 320 or with 320.

392. SEMINAR IN SPEECH SCIENCE (3) Penson

Structure and function of the mechanism for speech and hearing. Anatomical, physiological and neurological considerations. Laboratory projects. (Offered in alternate years with 492.)

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) Penson

Current literature and advanced research in the field of speech correction. Individual reading projects. Class reports and discussions. Prereq., 12 hrs. including 195—Principles of Speech Correction. (Offered in alternate years with 392.)

495. THESIS (1 to 6) The Staff

Prereq., permission.

DRAWING—See Art

**ECONOMICS**

Professors Hellebrandt, Picard (chairman)  
 Associate Professor Levinson  
 Assistant Professors Crewson, Davis  
 Instructor Olsen

To begin a graduate major or minor in economics, a student seeking the M.A. degree should have at least 30 hours in commerce and/or economics and/or related social sciences, including Principles of Economics.

A student seeking the M.B.A. degree with a major or minor in economics should have at least 30 hours in commerce and/or economics, including Principles of Economics and the other requirements stated on pages 28 and 29.

**305. TRANSPORTATION (2 or 3) 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.

**309. PUBLIC UTILITIES (2 or 3) 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.

**315. PUBLIC FINANCE (3) Picard**

Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determining level of employment. The economic effects of the various taxes of federal, state, and local governments.

**320. ORGANIZATION AND STRUCTURE OF INDUSTRY (3) Olsen**

Emphasizes the economic characteristics of the principal manufacturing and processing enterprises, but also considers their historical development, financial organization, and legal aspects.

**329. COMPARATIVE ECONOMIC SYSTEMS (2 or 3) Crewson**

Historical development of various types of suggested economic reforms. Growth and analysis of communism, socialism, fascism, and modified capitalism. The economic thought of Marx, Sismondi, G. B. Shaw, H. G. Wells, St. Simon, and others.

**330. DEVELOPMENT OF ECONOMIC THOUGHT (2 or 3) 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 neoclassicists.

**332. MODERN ECONOMIC THOUGHT (2 or 3) Picard**

A critical analysis of the newer type of economics as presented by John Maynard Keynes.

**333. ECONOMIC THEORY (2 or 3) 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.

**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.

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.
342. INTERNATIONAL ECONOMICS (2 or 3) 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.
381. RESEARCH IN ECONOMICS (1 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.

## EDUCATION

Professors Morton, Hansen, Benz, Shoemaker,  
Hill, Hamblin  
Associate Professors Quick, C. H. Roberts, McKelvey,  
Hendrix, Krantz  
Assistant Professors DeLand, Lynn, Crowell, Felsing,  
N. E. Dilley, Cooper

Students wishing to major in education will be required to have sufficient undergraduate preparation in education to qualify them for the Ohio provisional certificate or its equivalent. This teaching credential is based upon an approved program of four years of college work including certain professional courses.

Students wishing to minor in education will be required to have 12 hours of undergraduate work in education or closely related fields.

The Master of Education degree affords optional plans of study—(Plan A) 28 semester hours of course work and a thesis for which 4 credit hours are allowed, (Plan B) 34 semester hours of course work.

The student electing to follow Plan A leading to the M.Ed. degree will comply with the requirements stipulated on page 22. Not later than one month before the oral examination on thesis, the candidate must take a written comprehensive examination. This examination will consist of two parts, (1) questions pertaining to the candidate's major field of study, and (2) questions pertaining to the three courses which are listed as general requirements for majors in Education. See page 50 for these general requirements.

The program for the Master of Education degree under Plan B 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, and business education. Other areas of study may be included. The degree program under Plan B is available under the same requirements as Plan A 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'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 8 or 9 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.
3. The student must complete a minimum program of 34 semester hours of credit for the degree. Training in research methods and writing appropriate to the work of teachers, administrators, and other educational workers will be initiated in the course, Introduction to Graduate Study, and will culminate in a required Seminar course or courses (2-4 semester hours).
4. The student must pass a written comprehensive examination (4 to 6 hours) based on his major field of study and the courses which are general requirements for majors in Education. The major fields of study are: School Administration, Secondary School Administration, Secondary Education, Elementary School Administration, Elementary Education, Guidance Counseling, and Teacher Counseling. The courses which are general requirements for majors in Education are described below. This written comprehensive examination must be taken as directed by the major department and not later than four weeks before the date when the degree is conferred.

The programs for various special areas of professional education cover the most common interests of graduate students in education. A general major in "education" can be planned for any student not interested in these specializations. Such a major would include the "general requirements" plus additional courses selected to fit the student's needs.

The "suggested electives" in these programs are not rigidly restrictive. Other courses can be added or substituted, with the approval of the adviser.

A minor in education will be arranged for interested students, with choice of courses to suit individual needs.

The College of Education has established patterns of training for candidates who wish to be recommended for administrative and supervisory certificates in the State of Ohio. The selection of courses can be planned to meet state and degree requirements.

*General Requirements for Majors in Education:*

To provide a common basis in fields underlying all aspects of education, all majors in any phase of education are required to complete the following:

- Ed. 351—The School in the Social Order ----- 3 hrs.  
 Ed. 428—Advanced Principles of Teaching ----- 3 hrs.  
 (Students who have a strong background in the field of instruction and teaching methods may fulfill this requirement by taking a qualifying examination. Suggested readings are available and the examination can be arranged through the student's major adviser. Under no circumstances, however, can credit be earned in Ed. 428 by examination only.)  
 Ed. 488—Introduction to Graduate Study ----- 3 hrs.  
 (To be taken, if possible, in first term of residence.)

SCHOOL ADMINISTRATION

General Requirements: (9 hours as outlined above.)

Major Requirements:

	Hours		Hours
Ed. 410—Administration of the Elementary School -----	2	Ed. 442—School Finance and Business Administration -----	2
Ed. 430—High School Administration -----	2	Ed. 443—School Law -----	2
Ed. 440—Local School Administration -----	3	Ed. 446—Supervision of Instruction -----	2-4
Ed. 441—State and National School Administration -----	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4

Suggested Electives:			
Ed. 332—The High School Curriculum -----	2	Ed. 385—Educational Measurements -----	3
Ed. 340—School Public Relations -----	2	Ed. 403—Advanced Studies of Children -----	3
Ed. 350—History of Education -----	3	Ed. 411—Problems in Elementary Curriculum -----	3
Ed. 352—Comparative Education -----	3	Ed. 412—Seminar in Elementary Education -----	2-4
Ed. 353—Evolution of Educational Thought -----	3	Ed. 444—Human Problems in School Administration -----	3
Ed. 354—Philosophy of Education -----	3	Ed. 445—School Building Planning -----	2
Ed. 360—Guidance Principles -----	3	Ed. 446—Supervision of Instruction -----	2-6
Ed. 361—Guidance Practice -----	1-3	Ed. 447—Personnel Administration in Public Schools -----	3
Ed. 362—Information Service in Guidance -----	2	Ed. 470—Seminar in Secondary Education -----	2-4
Ed. 374—Improvement of Reading in Secondary Schools -----	2	Ed. 484—Research in Education -----	1-6
Ed. 381—Educational Statistics -----	3		

SECONDARY SCHOOL ADMINISTRATION

General Requirements: (9 hours as outlined on page 50.)

Major Requirements:

Ed. 332—The High School Curriculum -----	2	Ed. 446—Supervision of Instruction -----	2-4
Ed. 360—Guidance Principles -----	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4
Ed. 430—High School Administration -----	2		
Ed. 440—Local School Administration -----	3		

Suggested Electives:			
Any course(s) from division of History and Philosophy of Education -----		Ed. 374—Improvement of Reading in Secondary Schools -----	2
Ed. 340—School Public Relations -----	2	Ed. 381—Educational Statistics -----	3
Ed. 350—History of Education -----	3	Ed. 385—Educational Measurements -----	3
Ed. 352—Comparative Education -----	3	Ed. 444—Human Problems in School Administration -----	3
Ed. 353—Evolution of Educational Thought -----	3	Ed. 470—Seminar in Secondary Education -----	2-4
Ed. 354—Philosophy of Education -----	3	Ed. 484—Research in Education -----	1-6
Ed. 362—Information Service in Guidance -----	2	Psych. 310—Mental Hygiene -----	3

SECONDARY EDUCATION

(A major for teachers)

General Requirements: (9 hours as outlined on page 50.)

Major Requirements:

Ed. 332—The High School Curriculum -----	2	Ed. 470—Seminar in Secondary Education -----	2-4
Ed. 360—Guidance Principles -----	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4
Ed. 385—Educational Measurements -----	3		

Suggested Electives:			
(to complete at least 20 hours for the major)		Ed. 353—Evolution of Educational Thought -----	3
Any course(s) from division of History and Philosophy of Education -----		Ed. 354—Philosophy of Education -----	3
Ed. 340—School Public Relations -----	2	Ed. 362—Information Service in Guidance -----	2
Ed. 350—History of Education -----	3	Ed. 374—Improvement of Reading in the Secondary Schools -----	2
Ed. 352—Comparative Education -----	3	Ed. 381—Educational Statistics -----	3
		Psych. 310—Mental Hygiene -----	3

Minor: (8-12 hours in high school teaching subject or subjects)

## GUIDANCE COUNSELING

(A major for professional guidance workers)

*General Requirements:* (9 hours as outlined on page 50.)*Major Requirements:*

	Hours		Hours
Ed. 360—Guidance Principles -----	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4
Ed. 361—Guidance Practice -----	1-3	Psych. 303—Mental Measurements -----	3
Ed. 362—Information Service in Guidance -----	2	Psych. 320—Personnel and Vocational Counseling -----	3
Ed. 385—Educational Measurements -----	3		
Suggested Electives:			
Any course(s) from division of History and Philosophy of Education		H.R. 304—Human Relations -----	3
Ed. 374—Improvement of Reading in Secondary Schools -----	2	H.R. 493—Seminar in Student Personnel Administration -----	3
Ed. 381—Educational Statistics -----	3	H.R. 494—Seminar in Student Personnel Administration -----	3
Ed. 460—Seminar in Guidance -----	2	Psych. 310—Mental Hygiene -----	3
Ed. 462—Field Experience in Guidance	2	Psych. 337—Counseling and Psychotherapy -----	3
H.R. 303—Human Relations -----	3		

## TEACHER COUNSELING

(A major for teachers)

*General Requirements:* (9 hours as outlined on page 50.)*Major Requirements:*

Ed. 360—Guidance Principles -----	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4
Ed. 385—Educational Measurements -----	3		
Suggested Electives:			
(to complete at least 20 hours for the major)		Ed. 460—Seminar in Guidance -----	2
Ed. 361—Guidance Practice -----	1-3	Ed. 462—Field Experience in Guidance	2
Ed. 362—Information Service in Guidance -----	2	Psych. 303—Mental Measurements -----	3
		Psych. 310—Mental Hygiene -----	3
		Psych. 320—Personnel and Vocational Counseling -----	3

*Minor:* (8-12 hours in teaching field or fields)

## ELEMENTARY SCHOOL ADMINISTRATION

*General Requirements:* (9 hours as outlined on page 50.)*Major Requirements:*

Ed. 403—Advanced Studies of Children	3	Ed. 440—Local School Administration --	3
Ed. 410—Administration of the Elementary School -----	2	Ed. 446—Supervision of Instruction --	2-4
Ed. 411—Problems in Elementary Curriculum -----	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4
Suggested Electives:			
Any course(s) from division of History and Philosophy of Education		Ed. 360—Guidance Principles -----	3
Ed. 340—School Public Relations -----	2	Ed. 381—Educational Statistics -----	3
Ed. 350—History of Education -----	3	Ed. 385—Educational Measurements --	3
Ed. 352—Comparative Education -----	3	Ed. 412—Seminar in Elementary Education -----	2-4
Ed. 353—Evolution of Educational Thought -----	3	Ed. 444—Human Problems in School Administration -----	3
Ed. 354—Philosophy of Education -----	3	Ed. 484—Research in Education -----	1-4

## ELEMENTARY EDUCATION

(A major for teachers)

*General Requirements:* (9 hours as outlined on page 50.)*Major Requirements:*

Ed. 385—Educational Measurements ---	3	Ed. 412—Seminar in Elementary Education -----	2-4
Ed. 403—Advanced Studies of Children	3	Ed. 495—Thesis (or, if nonthesis, 4 hrs. from electives) -----	4
Ed. 411—Problems in Elementary Curriculum -----	3		

	Hours		Hours
*Suggested Electives:		Ed. 381—Educational Statistics -----	3
(to complete a minimum of 11 hours)		Ed. 385—Educational Measurements ---	3
Any course(s) from division of History		Ed. 410—Administration of the	
and Philosophy of Education		Elementary School -----	2
Ed. 350—History of Education -----	3	Ed. 484—Research in Education -----	1-4
Ed. 352—Comparative Education -----	3	Psych. 304—Psychology of Exceptional	
Ed. 353—Evolution of Educational		Children -----	2
Thought -----	3	Psych. 310—Mental Hygiene -----	3
Ed. 354—Philosophy of Education -----	3	Psych. 315—Social Psychology -----	3
Ed. 360—Guidance Principles -----	3		

(COURSE OFFERINGS)

ELEMENTARY EDUCATION

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. of education or psychology, or permission.
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) Dillely  
 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., Educational Psychology.
361. GUIDANCE PRACTICE (1 to 3) Hill and Staff  
 Directed practice in counseling and other personnel services in cooperating 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 (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 in summer sessions and by Extension.)

\*As an alternative to this group of electives, the student may complete a minor in an area other than education or in a combination of education and some other subject-matter field.

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 courses:

Ed. 381—Educational Statistics, Ed. 385—Educational Measurements, H.R. 303-304—Human Relations, H.R. 493, 494—Seminar in Student Personnel Administration, Psych. 303—Mental Measurements, Psych. 316—Psychology of Individual Differences, Psych. 320—Personnel and Vocational Counseling, Psych. 337—Counseling and Psychotherapy.

#### 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., Educational Psychology.
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., Educational Psychology.
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. of 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., Educational Psychology.
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.
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.
358. WORKSHOP IN ECONOMIC EDUCATION (3) Crowell  
A study of basic economic concepts and practical economic problems with the view to their integration into the school curriculum. Prereq., permission. (Offered in summer sessions and by Extension.)
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.

#### RESEARCH AND SCIENTIFIC TECHNIQUES

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., Educational Psychology.



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., Educational Psychology.
388. **CONSERVATION EDUCATION WORKSHOP** (Summer Sessions only)  
 (3 to 5) The Staff  
 A field course designed primarily for teachers of the elementary and junior high school. Relationships between conservation and the natural sciences will be considered. Prereq., permission.
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., including a course in the teaching of arithmetic, and Educational Psychology.
483. **RESEARCH IN EDUCATIONAL STATISTICS** (1 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., Educational Psychology 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

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., Educational Psychology.
428. **ADVANCED PRINCIPLES OF TEACHING** (3) Hill  
 A critical appraisal of teaching in the light of available research on learning and teaching. Prereq., 228—Principles of Teaching, or equivalent, and Educational Psychology.
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., 130—Secondary Education.
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., Educational Psychology.
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., 440.
430. HIGH SCHOOL ADMINISTRATION (2) 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., 440.
440. LOCAL SCHOOL ADMINISTRATION (3) McKelvey, Krantz  
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.
441. STATE AND NATIONAL SCHOOL ADMINISTRATION (3) Crowell, Krantz  
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., 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., 440 and permission.
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) Felsing  
The principles underlying democratic supervision and techniques which promote the growth of teachers in service. Laboratory experiences in analysis of teaching situations. Prereq., 211—The Child and the Curriculum, and 410, or 332 and 430.

## 447. PERSONNEL ADMINISTRATION IN PUBLIC SCHOOLS (3) Krantz

Designed to acquaint school administrators with the selection, classification, and placement of teaching and non-teaching personnel in the schools.

## 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., Educational Psychology, 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

## 321. ORGANIZATION OF SPECIAL CLASSES FOR HANDICAPPED CHILDREN (2) DeLand, Cooper

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 who might have retarded or slow learners in with average or rapid learners.

## ELECTRICAL ENGINEERING—See Engineering

## ENGINEERING

Professors Green, Gaylord, P. H. Black  
Associate Professors Clark, Quisenberry, Selleck  
Assistant Professor Hicks  
Instructor Sorensen

The standard four-year course in engineering or its equivalent as offered in institutions approved by the Engineers' Council for Professional Development is a general prerequisite for graduate study. Graduates in science and other fields of engineering whose programs have included sufficient courses in mathematics, physics, chemistry, the humanities and the social sciences may be accepted as graduate students. Such students must take such undergraduate courses in basic engineering subjects as the staff may require.

## 381. RESEARCH (1 to 6) The Staff

Prereq., approval by chairman of department in which work is performed.

## 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.

CIVIL ENGINEERING  
(Mr. Gaylord, chairman)

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., 3 lab. Prereq., 10—Plane Surveying, and 211—Topographic Surveying.
314. PHOTOGRAMMETRY (3) The Staff  
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., 4 lab. Prereq., 10—Plane Surveying, and 211—Topographic Surveying.
326. ADVANCED STRENGTH OF MATERIALS (3) The Staff  
Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 120—Applied Mechanics, 222—Strength of Materials, 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., 120-121—Applied Mechanics, 222—Strength of Materials, and Math. 315.
328. AERODYNAMICS (3) The Staff  
Aerodynamic characteristics of airfoils and factors affecting stability and control. Performance calculations. Prereq., 120-121—Applied Mechanics, and Math. 315.
330. STRUCTURAL ANALYSIS (4) Gaylord  
Theory of analysis of structures for which the conditions of static equilibrium are not sufficient to obtain a solution. Prereq., 120—Applied Mechanics, 222—Strength of Materials, and 230—Structural Analysis.  
For other courses in Civil Engineering, see page 57 under Engineering.

ELECTRICAL ENGINEERING  
(Dr. Green, chairman)

- 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., 2 lab. Prereq., 201-202—Circuits and Machinery, or 211-212—Electrical Engineering.
- 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., 211-212—Electrical Engineering, and 213-214—Dynamo and Measurements Laboratory.
- 305-306. ELECTRICAL ENGINEERING LABORATORY (2-2) Selleck  
Measurement and predetermination of characteristics of A. C. machinery. 4 lab. Prereq., with 303-304.

**307-308. ENGINEERING ELECTRONICS (3-3) Green**

A comprehensive theoretical and practical treatment of the fundamentals of electronics and the general properties of electronic tubes with application to engineering. 2 lec., 2 lab.

**321-322. HIGH-FREQUENCY CIRCUITS AND ELECTROMAGNETIC RADIATION (3-3) Green**

Application of electronic and communication principles to high-frequency circuits and a study of electromagnetic radiation and antennae. Prereq., 201-202—Circuits and Machinery, or 211-212—Electrical Engineering.

**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—Fundamentals of Radio, or 301.

**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., 2 lab.

**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., 2 lab.

**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., 201-202—Circuits and Machinery, or 211-212—Electrical Engineering, and 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—Circuits and Machinery, 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., 201-202—Circuits and Machinery, or 211-212—Electrical Engineering.

**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., 201-202—Circuits and Machinery, or 211-212—Electrical Engineering.

**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., 2 lab. Prereq., 304 and 306.

399. POWER SYSTEM STABILITY STUDIES (3) Quisenberry  
The techniques involved in making transient stability studies of large power systems. Step-by-step methods are developed to determine swing curves of synchronous machines and slip curves for induction machines, using both the digital type computer and the network analyzer. Prereq., 342.

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 courses in Electrical Engineering, see page 57 under Engineering.

### MECHANICAL ENGINEERING

(Mr. Black, chairman)

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—Kinematics, and/or with C.E. 120-121—Applied Mechanics.

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—Metal Processing, 201—Kinematics, 211—Engineering Metallurgy; C.E. 120—Applied Mechanics, 222—Strength of Materials; Ind. A. 13—General Cold Metals, and 14—General Hot Metals.

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) Sorensen  
Heating, cooling, humidifying and decontamination of air for domestic and commercial purposes, and refrigeration and heating practice. Prereq., 222—Thermodynamics, or 221—Thermodynamics and permission.

312. INTERNAL COMBUSTION ENGINES (4) Sorensen  
Analysis and testing of spark-ignition and compression-ignition engines including combustion, thermodynamics, carburetion, detonation, fuels and fuel injection. 3 lec., 2 lab. Prereq., 222—Thermodynamics.

314. HEAT TRANSFER (3) Hicks  
Basic concepts of conduction, convection and radiation; steady and unsteady states, film coefficients and dimensional analysis. Prereq., 221-222—Thermodynamics.

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. 120-121—Applied Mechanics, and permission.

For other courses in Mechanical Engineering, see page 57 under Engineering.

## ENGLISH

Professors Mackinnon, Wray, (chairman)  
Foster, Heidler, Hodnett, Kendall  
Associate Professors McQuiston, Lash, Kirchner, Thompson

To begin a graduate major in English the student will have completed essentially the requirements for a Bachelor of Arts major in English.

In order to qualify as a graduate minor in English, a student will normally present 18 hours of undergraduate credit in English.

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.

## 311. HISTORY OF THE ENGLISH LANGUAGE (3) The Staff

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. (1st sem., 1956-1957.)

## 312. CHAUCER (3) Heidler

Chaucer, his life and his world; contemporary literature; his early works; *The Canterbury Tales*; *Troilus and Criseyde*; Chaucer scholarship. Prereq., 311 recommended. (2nd sem., 1956-1957.)

## 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. (1st sem., 1957-1958.)

## 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. (2nd sem., 1957-1958.)

## 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. (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. (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. (1st sem., 1956-1957.)

## 332. SEVENTEENTH CENTURY LITERATURE II (3) Foster

Emphasis on John Milton's minor poems, some of his prose, and *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*; John Dryden as poet, dramatist, and critic. (2nd sem., 1956-1957.)

## 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. (1st sem., 1957-1958.)

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. (2nd sem., 1957-1958.)
351. POETRY OF THE ROMANTIC PERIOD (3) The Staff  
The poetry of Wordsworth, Coleridge, Byron, Shelley, Keats; philosophical background and historical context of Romanticism—Rousseau, Godwin, the French Revolution, the Napoleonic Empire. (1st sem., 1956-1957.)
352. POETRY OF THE VICTORIAN PERIOD (3) The Staff  
The poetry of Tennyson, Browning, Arnold, Swinburne, the Pre-Raphaelites, Meredith, and Hopkins and its relation to "Victorianism"; Hardy, Masfield, and other Edwardians and Georgians. (2nd sem., 1956-1957.)
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. (1st sem., 1956-1957.)
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., 111—The Chief American Writers. (2nd sem., 1957-1958.)
361. TWENTIETH CENTURY MASTERS I (3) Hodnett  
An intensive analysis of such writers as Shaw, Mann, Hemingway, and Auden. (1st sem., 1956-1957.)
362. TWENTIETH CENTURY MASTERS II (3) Hodnett  
An intensive analysis of such writers as O'Neill, Joyce, Faulkner, and Eliot. (2nd sem., 1956-1957.)
371. 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. (1st sem., 1957-1958.)
372. PRACTICAL LITERARY CRITICISM (3) Thompson  
A survey of the distinctive ways whereby modern literary scholars attempt to elucidate and evaluate works of literature. Readings in contemporary criticism and preparation of critical papers that will exemplify some of the distinctive techniques of literary analysis. Prereq., 371 and permission. (2nd sem., 1957-1958.)
390. STUDIES IN ENGLISH (1 to 3) Wray and Staff  
Directed reading and research in English or American literature for individual students with special interests and competence. Conferences and papers. Maximum credit in course, 6 hrs. Prereq., permission. (Each semester.)
- 391-392. HONORS SEMINAR (1-1) The Staff  
Discussion of problems of research and of criticism in relation to theses in progress. Required 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 who are submitting creative work in lieu of the research thesis. Prereq., 290—Creative Writing or equivalent, permission. (Yearly.)

## 470. SEMINAR IN LITERARY PROBLEMS (3) The Staff

Intensive study of an author, group, or form. Maximum credit in course, 6 hrs.

## 495. THESIS (1 to 6) The Staff

Prereq., permission.

## FINANCE

Professor Leavitt (chairman)

Assistant Professors Dawson, Fichthorn

Lecturer Wolfe

To begin a graduate major or minor in finance the student should have at least 30 hours in commerce and/or economics, including basic courses in finance.

## 301. THE STOCK MARKET (2) The Staff

The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101—Money and Credit, and 121—Business Finance.

## 306. INVESTMENT POLICY (3) The Staff

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—Investment Principles, or permission.

## 312. CREDITS AND COLLECTIONS (2) The Staff

The principles, methods, and policies of mercantile and retail credit. Prereq., 101—Money and Credit.

## 315. PROPERTY AND CASUALTY INSURANCE (3) The Staff

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., Principles of Economics, or permission.

## 316. LIFE INSURANCE (2 or 3) The Staff

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Principles of Economics, or permission.

## 351. MONETARY THEORY (3) The Staff

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—Money and Credit.

## 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—Money and Credit.

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—Money and Credit, and 121—Business Finance.
381. RESEARCH IN FINANCE (1 to 8) The Staff  
Special studies in money, banking, or business finance. Prereq., 9 hrs., Principles of Economics, and permission.
391. SEMINAR IN FINANCE (2 to 4) The Staff  
Maximum credit in course, 10 hrs. Prereq., 9 hrs., Principles of Economics, and permission.
495. THESIS (1 to 6) The Staff  
Prereq., permission.  
Additional course: Ec. 315—Public Finance.

### FRENCH—See Romance Languages

### GEOGRAPHY AND GEOLOGY

Professor Sturgeon (chairman)  
Assistant Professors Rudd, Chapman  
Instructor Phelps

Graduate students who wish to minor in geography should have a minimum of 12 hours in geography in courses approved by the department. A major program in geography is not offered.

Graduate students who wish to minor in geology should have a minimum of 12 hours in geology in courses approved by the department. A major program in geology is not offered.

### GEOGRAPHY

301. GEOGRAPHY OF THE SOVIET UNION\* (3) Chapman  
Intensive geographic study of the Soviet Union. (2nd sem., 1956-1957.)
305. GEOGRAPHY OF LATIN AMERICA\* (3) The Staff  
Intensive geographic study of Latin America. Prereq., 3-4—Elements of Geography or 150—Geography and Environment. (1st sem., 1956-1957.)
308. GEOGRAPHY OF EUROPE\* (3) Chapman  
Intensive geographic study of Europe. Prereq., 3-4—Elements of Geography or 150—Geography and Environment. (2nd sem., 1957-1958.)
312. GEOGRAPHY OF SOUTHERN ASIA AND ISLANDS\* (3) The Staff  
Intensive geographic study of Southern and Eastern Asia. Prereq., 3-4—Elements of Geography or 150—Geography and Environment. (1st sem., 1957-1958.)
322. GEOGRAPHY OF AFRICA\* (3) Rudd  
Intensive geographic study of Africa. Prereq., 3-4—Elements of Geography or 150—Geography and Environment. (2nd sem., 1956-1957.)

\*Graduate students in related fields such as history, economics, government, and sociology may take the course by special permission.

360. **POLITICAL GEOGRAPHY\*** (3) Chapman  
 Geographic basis of national strength or weakness. Physical and cultural influences upon historical development emphasized. (1st sem., 1957-1958.)
380. **CONSERVATION WORKSHOP** (Summer sessions only) (1)  
 A one-week workshop for teachers and teachers-in-training emphasizing projects and techniques valuable for associating conservation education with the basic elementary and high school areas. Field trips. Prereq., 9 hrs. of social studies.
381. **WORKSHOP IN AVIATION EDUCATION** (Summer sessions only) (1)  
 One week, or its equivalent, of nontechnical work designed to acquaint teachers with those phases of aviation which frequently appear in their regular classroom work. Prereq., 9 hrs. of physical science.
382. **GEOGRAPHICAL STUDIES** (1 to 4 a semester in any of the following)  
 Supervised studies in fundamentals of geographic research. Maximum credit in any one area, 8 hrs. Prereq., permission. (Each semester.)
- a. Cartography. Chapman.
  - b. Conservation of Natural Resources. The Staff.
  - c. Economic Geography. Chapman.
  - d. Meteorology and Climatology. Rudd.
  - e. Physiography. (See Geol. 383-a). Rudd.
  - f. Political Geography. Chapman.
  - g. Regional Geography. The Staff.

## GEOLOGY

303. **ECONOMIC GEOLOGY** (3) Phelps  
 The principles of mineral deposition and a general survey of the metallic and non-metallic deposits of the world. 2 lec., 2 lab. Prereq., 128—Elementary Mineralogy, and 129—Elementary Petrology. (2nd sem., 1956-1957.)
314. **PHYSIOGRAPHY** (3) Rudd  
 Introduction to the earth's surface features and pertinent geologic structures emphasizing the physiography of North America. 2 lec., 2 lab., field trips. Prereq., 126-127—Historical Geology. (1st sem., 1956-1957.)
325. **GLACIAL GEOLOGY** (3) Phelps, Rudd  
 Introduction to study of glaciers and glaciation. 2 lec., 2 lab., field trips. Prereq., 126-127—Historical Geology, or permission. (1st sem., 1957-1958.)
330. **GEOLOGY OF OHIO** (2) Sturgeon  
 Introduction to the geology of Ohio emphasizing physiography, stratigraphy, and economic geology. 2 lec., field trips. Prereq., 126-127—Historical Geology. (2nd sem., 1956-1957.)
- 340-341. **PALEONTOLOGY** (3-3) Sturgeon  
 Introduction to fossils, emphasizing the invertebrates, their morphology, classification, identification, and distribution. Index fossils emphasized. 2 lec., 2 lab., field trips. Prereq., 126-127—Historical Geology or Zool. 326. (Yearly.)

\*Graduate students in related fields such as history, economics, government, and sociology may take the course by special permission.

- 350. GEOLOGIC FIELD METHODS** (3) Phelps  
Introduction to geologic field methods, especially in use of hand level, Brunton pocket transit, and plane table and telescopic alidade. 1 lec., field work. Prereq., C.E. 10—Plane Surveying, and permission. (2nd sem., yearly.)
- 383. GEOLOGICAL STUDIES** (1 to 4 a semester in any of the following)  
Supervised studies in fundamentals of geologic research. Maximum credit in any one area, 8 hrs. Prereq., permission.
- a. Glacial Geology and Physiography. Rudd.
  - b. Mineralogy, Petrology, or Economic Geology. Phelps.
  - c. Paleontology. Sturgeon.
  - d. Sedimentation and Stratigraphy. Phelps, Sturgeon.
  - e. Structural Geology. Phelps.

**GERMAN**

Associate Professor Krauss (chairman)  
Visiting Lecturer Naumann

To begin a graduate major in German, the student should have completed a minimum of 28 hours of undergraduate courses including German grammar and composition.

To begin a graduate minor, the student should have completed a minimum of 16 hours of undergraduate courses in the language.

- 301, 302. SURVEY OF GERMAN LITERATURE** (3,3) Naumann  
(1956-1957.)
- 303, 304. READINGS FROM GERMAN LITERATURE** (1 to 4, 1 to 4) The Staff  
Selected readings adapted to the needs of the class or the student. Maximum credit in each course, 8 hrs. (Given on sufficient demand.)
- 311, 312. NINETEENTH CENTURY GERMAN DRAMA** (3,3) Krauss  
A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. (1956-1957.)
- 313. CLASSICAL GERMAN DRAMA** (3) Krauss  
Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. (1st sem., 1957-1958.)
- 314. GOETHE'S FAUST** (3) Krauss  
A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 313. (2nd sem., 1957-1958.)
- 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. (1st sem., 1957-1958.)
- 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. (2nd sem., 1957-1958.)

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 and 320. (1st sem., 1956-1957.)
323. GERMAN LYRICS AND BALLADS (2) Naumann  
Reading and discussion of the German lyrics and ballads since Goethe. (1st sem., 1957-1958.)
495. THESIS (1 to 6) The Staff  
Prereq., permission.

## GOVERNMENT

Associate Professors Collins (chairman), Gusteson  
Assistant Professor Elsbree

To begin graduate work with government as a major, a minimum of 18 hours in government, or its equivalent, is required.

To begin a graduate minor in government, a minimum of 6 hours in government, or its equivalent, is required.

- 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. (Yearly.)
303. MUNICIPAL GOVERNMENT AND ADMINISTRATION (3) Collins  
The creation and legal powers of cities, municipal elections and political bosses; and analysis of the administrative functions and problems of city government: personnel, finance, police, public utility regulation and ownership. Prereq., 6 hrs. (Yearly.)
305. AMERICAN POLITICAL PARTIES (3) 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. (Yearly.)
308. LEGISLATURES AND LEGISLATIVE PROCESSES (3) 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., (Yearly.)
309. LAW ENFORCEMENT (3) 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. (Yearly.)
316. INTERNATIONAL RELATIONS (3) 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. (2nd sem., yearly.)
317. CURRENT INTERNATIONAL PROBLEMS (3) 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. (Yearly.)

323. INTERNATIONAL LAW (2) 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. (1st sem., yearly.)
341. AMERICAN FOREIGN POLICY (3) 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. (2nd sem., yearly.)
343. AMERICAN POLITICAL THOUGHT (3) The Staff  
The origin and development of political ideas in the United States, growth of democratic principles from the colonial times to 1856, and an analysis of recent trends in American political thought. Prereq., 6 hrs., or 9 hrs. of history. (1956-1957.)
344. RECENT POLITICAL THOUGHT (2) 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. of European history. (Yearly.)
348. PUBLIC ADMINISTRATION (3) 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. (Yearly.)
349. ADMINISTRATIVE LAW (3) 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. (Yearly.)
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

## HISTORY

Professors Volwiler, Cady (chairman)  
Associate Professors Morrison, Gustavson, Kershner  
Assistant Professor Mayes

To undertake graduate work with history as a major, a minimum of 18 hours in history is required, including the basic survey courses in European and American history, or their equivalent, and at least two courses in the 300-399 group.

To begin a graduate minor in history, a minimum of 6 hours in history, or approved equivalents, is required.

Graduate students majoring in history are required to take Hist. 395.

301. COLONIAL AMERICA (3) Kershner  
The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. (1st sem., yearly.)
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. (2nd sem., yearly.)
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. (2nd sem., yearly.)
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. (2nd sem., 1957-1958.)
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. (2nd sem., 1956-1957.)
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. (1st sem., 1956-1957.)
324. HISTORY OF AMERICAN FOREIGN POLICY (3) Cady and Staff  
A survey of the development of the foreign policy of the United States, emphasizing relations with Latin America, the Far East, and Europe to World War II. (1st sem., 1957-1958.)
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. (1st sem., 1956-1957.)
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. (1st sem., yearly.)
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. (2nd sem., yearly.)
340. THE UNITED STATES AND WORLD AFFAIRS SINCE 1929 (3) Volwiler  
A study of America's increasing involvement in world responsibilities since the advent of the Great Depression. (1st sem., yearly.)
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. (2nd sem., yearly.)

360. THE RENAISSANCE (2) *Mayes*  
 A study of Renaissance culture in Europe from the 14th to the 16th century, with emphasis on Italy. Includes a treatment of late medieval civilization, Humanism, the artistic Renaissance, and the growth of the middle class. (2nd sem., yearly.)
362. THE REFORMATION (2) *Gustavson*  
 The disruption of the Universal Church, appearance and characteristics of the principal branches of Protestantism, and reform within the Roman Catholic Church. (1st sem., 1956-1957.)
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. (2nd sem., yearly.)
370. EUROPE BETWEEN WORLD WARS (3) *Gustavson*  
 Fascism, communism, and the twenty-year armistice between 1919 and 1939. (1st sem., 1957-1958.)
372. CONTEMPORARY EUROPE (3) *Gustavson*  
 Problems of peace and war in Europe since 1939. (2nd sem., yearly.)
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. (1st sem., yearly.)
378. THE HISTORY OF MODERN GERMANY (3) *Gustavson*  
 A survey of Germany and central Europe since the Age of Napoleon. (2nd sem., yearly.)
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. (2nd sem., yearly.)
390. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS (2 or 3) *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. (2nd sem., 1957-1958.)
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. Maximum credit in course, 6 hrs. (Each semester.)
395. HISTORIOGRAPHY AND METHODOLOGY (3) *Volwiler*  
 An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs. (1st sem., yearly.)
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. (2nd sem., 1956-1957.)
495. THESIS (1 to 6) *The Staff*  
 Prereq., permission.



## HOME ECONOMICS

Professor V. M. Roberts (director)

Associate Professor Patterson

Assistant Professors Macauley, Bane, Lewis, Nehls

Instructors Gangwer, Cowan, Makroczy

A student desiring a master's degree with a major in home economics must have a minimum of 18 semester hours of undergraduate preparation in the field of home economics in which she wishes to specialize and/or in approved related fields. For a graduate program in General Home Economics, the student is required to have a minimum of 24 hours distributed among at least three areas of home economics.

A student desiring a graduate minor in home economics must have a minimum of 12 semester hours of undergraduate preparation in the field of home economics in which she wishes to specialize and/or in approved related fields.

## GENERAL HOME ECONOMICS

## 381. RESEARCH IN HOME ECONOMICS (1 to 3) The Staff

A project course in which the student carries on special investigations or problems under the guidance of the instructor. Hours for individual problems assigned. Maximum credit in course, 6 hrs. Prereq., 20 hrs. and permission.

## 390a, b, c, d, e. FIELD WORK IN HOME ECONOMICS (2 to 4) The Staff

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.

a. Home Economics Extension

b. Home Service Work With Public Utilities

c. Institutional Management

d. Retail Merchandising

e. Radio-TV

## 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

## 375. PROBLEMS IN CHILD DEVELOPMENT OR FAMILY LIVING (2 or 3) Nehls, Gangwer

An intensive study through library research of a phase of child development or a problem in family living. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 6—Family Living and 172—Advanced Child Development, or 6 hrs. of psychology and/or sociology, permission.

## 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., 3 lab. at Nursery School. Prereq., 6—Family Living and 172—Advanced Child Development.

**378. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN**

(3) Gangwer

The organization and administration of nursery school. Prereq., 6—Family Living and 172—Advanced Child Development. (Not offered in 1957-1958.)

**379a, b. GUIDANCE OF NURSERY SCHOOL CHILDREN**

(2 to 6) Nehls

Techniques in teaching and guidance in the Nursery School. Observation and participation in all phases of the Nursery School program. Prereq., 6—Family Living, 172—Advanced Child Development, and 377, or 6 hrs. of psychology and permission.

a. Teaching and Guidance Techniques. (4 hrs.)

b. Techniques in Child Feeding. (2 hrs.)

**477a, b. SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS OR CHILD DEVELOPMENT**

(2 to 6) Nehls

An intensive study of a problem in family relationships or child development. Prereq., 6—Family Living, and 172—Advanced Child Development, or 12 hrs. of psychology, sociology and/or human relations.

a. Family Relationships. (2 or 3 hrs.)

b. Child Development. (2 or 3 hrs.)

**CLOTHING AND TEXTILES****300. NEW DEVELOPMENTS IN TEXTILES (Summer sessions only) (2) Cowan**

New developments in textile fibers with special emphasis on new fibers, their characteristics, uses and care. Sources of illustrative materials, methods of presentation, and testing procedures adaptable to the high school curriculum will be included. Prereq., 9 hrs. of clothing and textiles.

**301. TECHNIQUES IN TEACHING CLOTHING CONSTRUCTION**

(Summer sessions only)

(3) Bane

Special problems in sizing, alteration, fitting and construction as applied to teaching the high school student. Individual projects to include preparation of illustrative material, demonstration techniques and dynamic presentation. Prereq., 316 or equivalent, teaching experience or certification to teach home economics.

**302. TECHNIQUES IN TEACHING CLOTHING SELECTION**

(Summer sessions only)

(1) Bane

Methods of presenting clothing selection on the high school level with emphasis on psychological and economic aspects of clothing. Consumer and market trends to be included. Prereq., 316 or equivalent, teaching experience or certification to teach home economics.

**310. TECHNIQUES IN CLOTHING DESIGN (Summer sessions 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. Prereq., 3-4—Clothing Selection and Construction and 110—Textiles.

**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., 3-4—Clothing Selection and Construction and 110—Textiles; for non-majors, 110 and 6 hrs. economics. (Not offered in 1956-1957.)

**313. CLOTHING AND TEXTILES FOR THE CONSUMER**

(Summer sessions only)

(2) Cowan

This course will be directed toward problems of the consumer in purchasing of clothing and textiles. Lingerie, hosiery, and other wearing apparel, as well as furnishings for the home, are to be studied from the standpoint of quality in relation to cost. Units will be developed for use in the homemaking curriculum. Prereq., 9 hrs. clothing and textiles.

**315. HISTORY OF COSTUME AND TEXTILES**

(2) Cowan

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 3-4—Clothing Selection and Construction and 110—Textiles. (Not offered in 1957-1958.)

**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., 3-4—Clothing Selection and Construction and 110—Textiles.

**318. ADVANCED TEXTILES**

(3) Cowan

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec., 4 lab. Prereq., 3-4—Clothing Selection and Construction and 110—Textiles; General Chemistry.

**319<sub>a, b</sub>. PROBLEMS IN TEXTILES OR CLOTHING**

(3 to 6) Bane, Cowan

Intensive study of one or more problems related to textiles or clothing. Maximum credit in each area, 6 hrs., total in course, 12 hrs. Prereq., 12 hrs. clothing and textiles and permission.

a. Clothing. (3 hrs.)

b. Textiles. (3 hrs.)

**FOODS AND NUTRITION****320. CREATIVE COOKERY AND MEAL MANAGEMENT**

(Summer sessions only)

(2 to 4) Roberts

An advanced course emphasizing the creative, scientific, and artistic phases of food preparation and meal management. To be conducted as a workshop with special lectures, demonstrations, and individual and group projects. Prereq., permission.

**322. EXPERIMENTAL COOKERY**

(3) Lewis

Group and individual experiments on selected problems of food preparation. Offered in alternate years. 1 lec., 4 lab. Prereq., Chem. 113—Organic Chemistry.

**323. FOOD PRESERVATION**

(2) Lewis

Methods of home food preservation and factors affecting palatability and retention of nutrients in processed food. 1 lec., 2 lab. (Offered in alternate years.)

**326. ADVANCED NUTRITION**

(3) Lewis, Roberts

Principles of nutrition as applied to the feeding of individuals and families under varying conditions. 2 lec., 2 lab. Prereq., 125—Family Nutrition.

**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.

**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.

**329. NUTRITION IN HEALTH AND DISEASE**

(2) Macauley, Roberts

Application of principles of nutrition to the feeding of individuals and the use of diet in prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec., 4 lab. Prereq., 125—Family Nutrition.

**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. of foods and nutrition and permission.

**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., 3 lab. Prereq., 327. (Offered in alternate years.)

**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., 3 lab. Prereq., 327. (Offered in alternate years.)

**345. WORKSHOP IN SCHOOL LUNCH MANAGEMENT**

(Summer sessions only)

(1) Macauley

Meal preparation, menu planning, and purchasing of food and equipment for school lunch rooms. Prereq., permission.

**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—Organic Chemistry.

**HOME ECONOMICS EDUCATION****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—Teaching of Home Economics.

**367. WORKSHOP IN HOME ECONOMICS EDUCATION**

(Summer sessions only)

(2) Patterson

Individual and group projects directed toward the improvement of teaching of home economics at the secondary level. Prereq., 18 hrs. and permission.

**368. VOCATIONAL HOME ECONOMICS (Summer sessions only) (3)**

Patterson

History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observations arranged. Prereq., 268h—Teaching of Home Economics, 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.

368b. DEMONSTRATION TECHNIQUES (2) Roberts, Lewis  
 Practical experience in the demonstration of foods, equipment, or clothing. Planned for those going into secondary education or consumer service positions. 4 lab. Prereq., 12 hrs.

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

330. WORKSHOP IN HOME FURNISHINGS (3) Makroczy  
 Laboratory problems in advanced techniques in home furnishings, including upholstering and refinishing furniture, making slip covers and draperies, etc. 1 lec., 4 lab. Prereq., 3-4—Clothing Selection and Construction, and 7—The Home and Its Furnishings; for non-majors, 7—The Home and Its Furnishings, 4 hrs. art, and permission.

331. ECONOMICS OF FURNISHINGS (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. of 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., 4 lab. Prereq., 1-2—Foods, Nutrition and Meal Planning, and 8—Consumer Problems of the Family.

351. HOME MANAGEMENT (2) Makroczy  
 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., 1-2—Foods, Nutrition and Meal Planning, and 8—Consumer Problems of the Family, or 6 hrs. of sociology.

353. HOME MANAGEMENT LABORATORY (3) Makroczy  
 Residence in the home management house for half a 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) Makroczy  
 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. of sociology, and permission.

452. SPECIAL PROBLEMS IN HOUSEHOLD EQUIPMENT AND HOME MANAGEMENT (2 or 3) Macauley, Makroczy  
 An intensive study of the efficient management of time, energy, or money in the home. Maximum credit in course, 6 hrs. Prereq., 334, 351 and 353.

## HUMAN RELATIONS

Professors A. C. Anderson, Patrick  
Associate Professor B. R. Black (chairman)

Students who desire to major in human relations will be accepted on the basis of an interview with the graduate committee of the department.

The undergraduate preparation of the student should consist of not fewer than 18 hours in social sciences and specific preparation in the appropriate field or area of interest in human relations. In rare and unusual cases the graduate committee of the department may accept other training and experience in lieu of some of the above requirements.

A major in human relations leading to either the Master of Arts or the Master of Science degree shall consist of a minimum of 16 hours in courses approved by the graduate committee of the department, including 303 and 304 if the student has not taken these courses on the undergraduate level.

For a minor in human relations, the student is required to have the prerequisites for each course approved for the minor program.

301. MARRIAGE (3) Patrick and Associates Eggers, McQuate, Organ, Rowles,  
Schmidt

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., 12 hrs. of social sciences, or 6 hrs. of social sciences and 6 hrs. of biology. (2nd sem., yearly.)

303-304. HUMAN RELATIONS (3-3) 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. (303, each sem.; 304, 2nd sem., yearly.)

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 supervised work for a specified time in the offices of admissions, registrar, O. U. Center, housing, and University College; or research under the direction of the staff. Maximum credit in course, 5 hrs. Prereq., 303 and permission. (Each semester.)

491. SEMINAR IN HUMAN RELATIONS (3) The Staff  
Prereq., 303 or 304 and permission. (1st sem., yearly.)

493, 494. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION (3, 3) Black and Staff

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. (Yearly.)

495. THESIS (1 to 6) The Staff  
Prereq., permission.

## INDUSTRIAL ARTS

Associate Professors Kinison, Paige (chairman)

Assistant Professors Calvin, Perry, Sellon

Instructor Grether

A student electing a graduate major in industrial arts shall have completed an undergraduate minor of 24 hours in industrial arts or its equivalent as determined by the graduate committee of the Industrial Arts Department.

To begin a graduate minor in industrial arts, the student will be expected to have a minimum of 9 hours of approved work.

## 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

The history of industrial arts from its beginnings to the present, including the Smith-Hughes Law and the George-Dean Act and their administration in Ohio.

## 328. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (1 to 3) The Staff

A research course in which individual problems are selected for investigation, solution, and reporting. Maximum credit in course, 6 hrs.

## 399. WORKSHOP IN DRIVER EDUCATION (Summer sessions only) (1) Perry

A course designed for teachers of driver education. Class activity will be guided by problems found in present programs. Emphasis will be placed on improvement of time utilization and student motivation. Prereq., certification in driver education.

450<sub>a, b, c, d</sub>. 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 hours. 4 lab. Prerequisites are as follows: for (a) *Wood*, 1, 2—General Woodworking; for (b) *Metal*, 13—General Cold Metals, 14—General Hot Metals; for (c) *Printing*, 11—Duplicating, 141—Printing; for (d) *Power*, 3—Practical Electricity, 4—Practical Power and Transportation.

## 457. CURRICULUM BUILDING IN INDUSTRIAL ARTS (3) The Staff

The building of a complete industrial arts curriculum and the constructing of the several courses that make up the curriculum. Prereq., 16 hrs.

## 471. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION (3) The Staff

The philosophy of industrial education, the Federal Laws pertaining to vocational education, and the problems and practices of administration and supervision of vocational and nonvocational 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., 15 hrs. and Ed. 488, or concurrently with Ed. 488.

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 Baird, Baxter

The School of Journalism offers graduate work in all its five sequences: (1) News Writing and Editing, (2) Advertising-Management, (3) Feature and Pictorial Journalism, (4) Public Relations, (5) Radio-TV Journalism.

To begin a graduate major, a student should have a minimum of 12 hours of basic journalism courses and 6 additional hours of approved work in journalism or related fields.

To begin a graduate minor in journalism, courses indicated as prerequisites, or approved equivalents, are required. These prerequisites usually total 6 to 12 hours.

306. NEWSPAPER AND COMMUNICATIONS LAW (2) Hortin  
 Principles and case studies of the law of the press with emphasis on constitutional guarantees, libel, contempt, privacy, copyright, privilege, and administrative controls. Some consideration of regulations pertaining to radio and television. Prereq., 217—Newspaper and Magazine Editing.
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—Reporting Practice, or permission.
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—Newspaper and Magazine Editing, or Radio 280—Radio-TV News Writing and Editing.
322. FEATURE AND MAGAZINE WRITING (3) Hortin, Baxter  
 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—Newspaper Reporting, or 12 hrs. of English, or permission.
323. ADVANCED FEATURE AND MAGAZINE WRITING (2) Hortin, Lasher  
 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—Reporting Practice, or 12 hrs. of English, or permission.
- 327. PUBLIC RELATIONS TECHNIQUES** (2) Hortin, Staff  
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—Newspaper Reporting, 146—Typography, Mechanics, and Make-Up, or permission.
- 328. PUBLIC RELATIONS** (3) Hortin, Staff  
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—Reporting Practice, 146—Typography, Mechanics, and Make-Up.
- 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.
- 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—Newspaper Advertising and Layout, 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., permission.
- 375. SPECIALIZED JOURNALISM** (3) The Staff  
This course is designed for students desiring training in special fields—science, sports, society, politics, military, home economics, agriculture, religious activities, teaching journalism, music, and other approved areas. Prereq., permission.
- 376. GRAPHIC PRODUCTION PROCESSES** (3) Turnbull, Staff  
Advanced study of all processes for reproducing the printed word and pictures, including photoengraving, lithography, letterpress, rotogravure, mimeographing, duplicating. Emphasis is placed on developing a thorough understanding of latest developments in each field as they affect editing, advertising, public relations, and television news. Includes theory and laboratory work in preparation of written and photographic copy for each process. Prereq., 146—Typography, Mechanics, and Make-Up, and permission.
- 381. RESEARCH IN JOURNALISM** (1 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****MANAGEMENT**

Professor Hellebrandt (chairman)

Assistant Professor Davis

To begin a major in the field of management a student should have at least 30 hours in economics and/or commerce, including the basic courses, Principles of Economics, Elementary Accounting, and Statistics.

To begin a minor in management the student must have completed Principles of Economics.

**301. 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., 211—Industrial Management, or permission.

**302. PRODUCTION MANAGEMENT (3) Hellebrandt**

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.

**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., 211—Industrial Management, or permission.

**312. ADMINISTRATION OF PERSONNEL (3) 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., 211—Industrial Management, or permission.

**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) Hellebrandt**

Methods, work simplification and time study as tools of management to develop methods of determining operating standards for production control and wage rate determination. Prereq., 211—Industrial Management, or 301, or permission.

**325. INDUSTRIAL RELATIONS (2 or 3) 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., 211—Industrial Management, or permission.

332. WAGE AND SALARY ADMINISTRATION (2) 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) 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 and permission.
381. RESEARCH IN MANAGEMENT (1 to 8) The Staff  
Special studies in industrial organization and scientific management. Prereq., 16 hrs. in 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., 15 hrs. in 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. 341—Business Cycles, Stat. 345—Forecasting.

## MARKETING-ADVERTISING

In order to begin a graduate major or minor in marketing-advertising the student should have at least 30 hours in commerce and/or economics, including Principles of Economics, Marketing Principles, and Advertising Principles.

### MARKETING

- Professor Krauskopf  
Associate Professor Paynter (chairman)  
Assistant Professor Raymond
301. RETAIL SELLING POLICIES (3) Paynter  
The organization and operation of retail institutions.
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
326. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter  
The purchasing and selling of industrial goods.
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.
346. FOREIGN MARKETS (2) Paynter  
A study of foreign markets from the point of view of the American exporter.

352. **PROBLEMS IN SALES MANAGEMENT** (2) Krauskopf  
 An advanced course considering problems of sales administration and selling policies by the case method. Prereq., 258—Marketing Problems, or 271—Principles of Personal Selling, and 276—Sales Management.
381. **RESEARCH IN MARKETING** (1 to 8) The Staff  
 Research methods, market data, and methods of conducting market surveys. Prereq., 18 hrs. in commerce, including 5 hrs. in marketing, and permission.
391. **SEMINAR IN MARKETING** (2 to 4) The Staff  
 Maximum credit in course, 10 hrs. Prereq., 18 hrs. in commerce, including 5 hrs. of marketing, and permission.
495. **THESIS** (1 to 6) The Staff  
 Prereq., permission.

#### ADVERTISING

Professor Krauskopf (chairman)  
 Associate Professor Turnbull

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.
376. **ADVERTISING PROBLEMS** (3) Krauskopf  
 Emphasizes administrative problems and the coordination of advertising with other marketing activities.
381. **RESEARCH IN ADVERTISING** (1 to 8) The Staff  
 Prereq., 18 hrs. in commerce including 5 hrs. of advertising, and permission.
391. **SEMINAR IN ADVERTISING** (2 to 4) The Staff  
 Maximum credit in course, 10 hrs. Prereq., 18 hrs. in commerce including 5 hrs. of advertising, and permission.
495. **THESIS** (1 to 6) The Staff  
 Prereq., permission.

Additional courses: Jour. 327—Public Relations Techniques, Jour. 328—Public Relations, Jour. 348—Advertising Production, Radio 309—Radio—TV Advertising and Management.

**MATHEMATICS** Professors Marquis, Denbow (chairman), Goedicke  
 Assistant Professors Butner, Fishback, Jasper, Becksfort, Spring

A student may begin a graduate major with 21 hours of mathematics, including Differential and Integral Calculus and at least one 300 level course.

To begin a minor a student will be expected to have completed 18 hours of mathematics, including Differential and Integral Calculus.

301. THEORY OF EQUATIONS (3) Jasper  
The roots of unity, roots of an equation, isolation of real roots, numerical solutions, determinants and matrices, systems of linear equations, and symmetric functions. (1st sem., 1956-1957.)
303. NUMERICAL ANALYSIS (3) Goedicke  
An investigation of numerical methods for approximate solution of applied problems. Topics will include interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. (1st sem., 1956-1957.)
- 304, 305. ADVANCED CALCULUS (3, 3) Denbow, Jasper  
Critical treatment of certain topics in calculus. Limits, continuity, differentiation of functions of one and several variables, series, and definite and multiple integrals. Prereq., permission. (Yearly.)
308. PROJECTIVE GEOMETRY (3) Fishback, 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. (2nd sem., 1956-1957.)
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. (Yearly.)
317. INTRODUCTION TO MODERN ALGEBRA (3) Denbow, Fishback  
Development of the postulates of group theory, fields, rings, matrices, and point sets. Prereq., 301 or permission. (1st sem., 1957-1958.)
318. LINE INTEGRALS AND VECTOR ANALYSIS (3) Becksfort, Butner  
Complex numbers, partial derivatives and applications, line integrals, potential functions and fluid flow, and vector analysis. (1st sem., 1957-1958.)
319. MATRIX THEORY (3) Butner, Spring  
Linear transformations; matrices over a field; canonical forms and invariants. Prereq., 317 or permission. (2nd sem., 1957-1958.)
320. DIFFERENTIAL GEOMETRY (3) Fishback, Jasper  
Differential geometry of curves and surfaces; the first and second fundamental forms; geodesics and lines of curvature. Prereq., 315. (2nd sem., 1957-1958.)
326. THEORY OF STATISTICS (3) Butner, Goedicke  
Basic concepts of statistics treated theoretically. Advanced theory and practice, multiple and partial correlation, advanced sampling theory, and testing of statistical hypotheses. Prereq., 107—Elementary Statistics, or 207—Applied Statistics, or permission. (2nd sem., 1957-1958.)
330. FOURIER ANALYSIS (3) Goedicke, Marquis  
Fourier series and boundary value problems; elementary treatment of the Laplace transform; vector algebra and calculus. Prereq., 315. (2nd sem., yearly.)
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. Maximum credit in course, 6 hrs.

- 351-352. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-3) Marquis,  
Jasper  
Prereq., 304 or 305 or permission. (1956-1957.)
495. THESIS (1 to 6) The Staff  
Prereq., permission.

## MECHANICAL ENGINEERING—See Engineering

## MUSIC

Professors Ingerham, Ahrendt (director)  
Associate Professors Fontaine, Peterson, Stephenson  
Assistant Professors Kresge, Longstreet, Roach, Morley,  
Witzler, Merritt, Minelli, Jennings, Brophy  
Instructors Conkling, Szaroleta  
Lecturer Bergsagel

To major in music an applicant for admission is required to have finished successfully a four-year undergraduate curriculum in music from an institution which holds membership in the National Association of Schools of Music, or from any other accredited institution offering undergraduate music degrees equivalent in hours and content. In addition, he must demonstrate ability to carry graduate work in the major field or, if deficient, take further undergraduate preparation. In cases where the undergraduate preparation is not in the area planned for graduate study, the student must demonstrate a level of achievement fully equivalent to that provided by the bachelor's degree in the field concerned.

All graduate programs are based upon completion of a minimum of 32 hours of work beyond the bachelor's degree. All programs are divided into a major and minor area. A student wishing to do graduate work in composition or music literature is required to take a minimum of 16 hours in the major area. A thesis is required in music literature and an original composition in a large form for the composition major. In applied music the major may be 16 hours of applied music including 4 hours for the graduate recital in lieu of a thesis. The minor field may include any of the other areas offered in the School of Music. Music education majors take from 20-24 hours in their major area, including 4 hours for thesis. In exceptional cases a student majoring in music education may be permitted to present a graduate recital in lieu of a thesis. The minor in music education may include from 8-12 hours in another area of music, or in education. Music therapy majors are required to earn 12 hours in music therapy, 12 hours in psychology, and 8 hours may be selected from graduate courses in music.

## APPLIED MUSIC

Private instructional fee for all applied music (piano, voice, organ, strings, woodwind, brass, percussion), \$20 a semester hour.

(Note: A description of the proficiency requirements for applied music may be secured from the School of Music.)

- 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., 103-104—Dictation and Sight Singing; 105-106—Harmony; 273—Conducting; permission.
431. **VOICE** (1 to 4) Merritt, Peterson, Roach  
Maximum credit in course, 16 hrs. Prereq., permission.
433. **PIANO** (1 to 4) Fontaine, Jennings, Longstreet, Szaroleta  
Maximum credit in course, 16 hrs. Prereq., permission.
435. **ENSEMBLE** (1 to 4) The Staff  
Maximum credit in course, 16 hrs. Prereq., permission.
437. **STRINGED INSTRUMENTS** (1 to 4) Ingerham, Conkling  
Maximum credit in course, 16 hrs. Prereq., permission.
439. **WOODWIND INSTRUMENTS** (1 to 4) Witzler  
Maximum credit in course, 16 hrs. Prereq., permission.
441. **BRASS INSTRUMENTS** (1 to 4) Brophy, Minelli  
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** (1 to 4) The Staff  
A full-length public recital, a recording of which will be filed in the library, in lieu of thesis. Prereq., permission.

#### MUSIC HISTORY AND LITERATURE

337. **THE LITERATURE OF VOCAL MUSIC** (2) Peterson  
Representative literature from the fields of oratorio, choral music, and the art song. Prereq., F.A. 123-124—History of Music.
338. **THE LITERATURE OF ORCHESTRAL MUSIC** (2) Ingerham  
Orchestral literature from the classic through the contemporary. Prereq., F.A. 123-124—History of Music.
339. **THE EVOLUTION OF THE OPERA** (2) Roach  
Prereq., F.A. 123-124—History of Music.
340. **THE LITERATURE OF PIANO MUSIC** (2) Fontaine  
The development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F.A. 123-124—History of Music.
- 401-402. **MUSIC LITERATURE** (3-3) Bergsagel  
Prereq., F.A. 123-124—History of Music, and permission.
495. **THESIS** (1 to 6) The Staff  
Prereq., permission.

#### THEORY AND COMPOSITION

- 307-308. **ARRANGING AND SCORING FOR BANDS** (2-2) Minelli  
Scoring and arranging for the modern marching and symphonic band. Prereq., 103-104—Dictation and Sight Singing; 105-106—Harmony; 233—Instrumentation.

- 313-314. ORCHESTRATION (2-2) Ahrendt  
Scoring for small, medium, and full orchestra. Prereq., 103-104—Dictation and Sight Singing; 105-106—Harmony.
- 315-316. ADVANCED HARMONY (2-2) Kresge  
The evolution of harmony to the present, including the new methods of chord structure in modern harmony. Prereq., 103-104—Dictation and Sight Singing; 105-106—Harmony.
- 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., 103-104—Dictation and Sight Singing; 105-106—Harmony.
- 319-320. COMPOSITION (2-2) Ahrendt  
Original writing in the smaller forms. Prereq., 103-104—Dictation and Sight Singing; 105-106—Harmony.
- 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 (1 to 4) The Staff  
Prereq., 30 hrs. or the equivalent; 12 hrs. of English; permission.
- 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  
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

- 376a, b, c, d. MUSIC WORKSHOP (1 to 4) The Staff  
Maximum credit in course, 6 hrs.  
a. Music Clinic-Workshop (Summer only.)  
b. Opera Workshop (Summer only.)  
c. Elementary Music Workshop (Summer only.)  
d. Elementary Music Workshop (Extension only.)



470. CONTEMPORARY TRENDS IN MUSIC EDUCATION (2) Stephenson  
Prereq., 160—Introduction to Music Education, 266j—Music in the Junior and Senior High School, and permission.
471. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC (2) Stephenson  
2 lec., lab. as required. Prereq., 160—Introduction to Music Education, 265—Vocal Techniques and Materials; 266f—Supervision of Music in the Elementary School; 266j—Music in the Junior and Senior High School.
472. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC (3) Minelli  
2 lec., lab. as required. Prereq., 160—Introduction to Music Education, 261—String Techniques and Materials; 263-264—Wind and Percussion Techniques and Materials.
473. EXPERIMENTAL STUDIES IN MUSIC (3) Stephenson  
Important psychological investigations bearing upon musical composition, performance and appreciation. Prereq., 30 hrs., and General and Educational Psychology.
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.; 9 hrs. of psychology or equivalent; permission.
379. MUSIC THERAPY (2 to 9) The Staff  
A workshop course in methods, materials and procedures of conducting a music therapy program in hospitals and clinics. Prereq., 377 or permission.

## PAINTING—See Art

## PHILOSOPHY

Professors Gamertsfelder, Organ (chairman)  
Assistant Professors Murphree, Wieman, Grean

Only students who have received a 3.0 average in their undergraduate courses in philosophy and a 2.5 average in other undergraduate courses will be admitted as majors in philosophy. Prerequisites for beginning a graduate major are 12 hours, including 110—Introduction to Philosophy, and 209—Logic or approved equivalents for transfer students.

Prerequisites for beginning a graduate minor are 6 hours in philosophy courses, including 110—Introduction to Philosophy.

301. HISTORY OF IDEAS: ANCIENT AND MEDIEVAL (3) Gamertsfelder, Organ  
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. (1st sem., yearly.)
302. HISTORY OF IDEAS: MODERN (3) Gamertsfelder, Organ  
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. (2nd sem., yearly.)

**303. ADVANCED SOCIAL PHILOSOPHY**

(2) Murpree

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 117—Social Philosophy. (1st sem., yearly.)

**305. CONTEMPORARY THOUGHT**

(2) The Staff

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. (1st sem., yearly.)

**306. PHILOSOPHY OF SCIENCE**

(3) The Staff

This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture, present and past. (2nd sem., yearly.)

**308. PHILOSOPHY OF RELIGION**

(3) Grean

An examination of representative philosophical discussions of the nature of religion and of the concepts of God, evil, human freedom, and immortality. (2nd sem., yearly.)

**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. (Each semester.)

**491. SEMINAR IN PHILOSOPHY**

(1 to 3) 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 4) The Staff

Prereq., permission.

**PHOTOGRAPHY**

Lecturers White, Truxell, Allen

To begin a graduate major or minor in photography, a student must present at least 12 hours of undergraduate credit in the field.

**379-380. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY**

(3-3) White

Studio and location work in commercial, advertising, industrial, and architectural photography. Introduction to problems of studio operation and free-lance photography. 1 lec., 4 lab. Prereq., 143-144—Photographic Processes; 145—Workshop in Photography; 277-278—Portraiture or permission.

**381a, b, c, d. PROBLEMS IN PHOTOGRAPHY**

(3) The Staff

Individual study and practice in a specialized phase of photography under instructor supervision. Maximum credit in any one phase or combination of phases, 12 hrs. 6 lab. Prereq., 143-144—Photographic Processes; 145—Workshop in Photography; 277—Portraiture, and permission.

- a. Individual selection of approved problems in photographic design, technique, or practice.
- b. Picture stories for publication and magazine free-lance photography.
- c. 16 mm. motion picture production.
- d. Color photography.

**391-392. COLOR PHOTOGRAPHY**

(5-5) White

Theory of color photography, practice with color transparency materials, direct separations, separations from transparencies, masking, and dye transfer printing. 1 lec., 8 lab. Prereq., 143-144—Photographic Processes; 277-278—Portraiture or 379-380 and permission.

**481. RESEARCH IN PHOTOGRAPHY**

(1 to 4) The Staff

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, Trepp,  
Nessley (assistant director), Rhoads, Widdoes (director)

A student wishing to begin a graduate major or minor in physical education will be expected to present a minimum of 24 hours of approved work in physical education, or equivalent work as approved by the Division of Physical Education and Athletics.

**304. HISTORY AND PRINCIPLES**

(3) Hatcher, Rhoads

Systems of physical education from the time of the Greeks and their effects on our present program; principles underlying physical education in the modern program of education. Prereq., Zool. 134 or with 134—Anatomy, Kinesiology, and Physiology, or equivalent.

**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.

**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.

**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.

**352. PHYSICAL DIAGNOSIS**

(3) Schmidt 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.

**353. OBSERVATION AND PRACTICE IN CORRECTIVE THERAPY AND REHABILITATION**

(4) V. A. Hospital Staff

A concentrated six-week field course at Veterans' Administration Hospital, Chillicothe, Ohio. Instruction by hospital corrective therapy staff. May be taken alone or in conjunction with one or more courses on the campus at Athens. Prereq., Zool. 133-134—Anatomy, Kinesiology, and Physiology, or equivalent.

395. SCHOOL HEALTH PROBLEMS (3) Trepp  
A study of the principles, problems, organization and administration of school health programs, including school and community relationships.

396. PROBLEMS OF INTERSCHOOL ATHLETICS (3) Widdoes, Rhoads  
The organization and administration of interschool athletics from the point of view of the coach and administrator. Consideration will be given to the problems pertaining to interschool competition at all age levels.

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.

495. THESIS (1 to 6) The Staff  
Prereq., permission.

## PHYSICS

Professor Edwards (chairman)  
Associate Professors Pierce, Randall  
Assistant Professors T. S. Smith, Gallaher

A graduate student majoring in physics is expected to have a minimum undergraduate preparation of 18 hours in physics. Mathematics courses through Integral Calculus are also required.

The minimum undergraduate preparation for a graduate minor is 8 hours of physics. Mathematics courses through Integral Calculus are also required.

305. LIGHT (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., 113-114—General Physics. (2nd sem., 1956-1957.)

308. X-RAYS (2) Smith  
The history and development of the principles of X-rays in medicine, chemistry, and physics; production of continuous and characteristic X-ray spectra; detection, absorption, classical and quantum scattering, refraction and applications to crystallography. Prereq., 113-114—General Physics. (1st sem., 1957-1958.)

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., 113-114—General Physics. (2nd sem., 1957-1958.)

314. MODERN SPECTROSCOPY (3) Randall  
The structure of atoms, molecules, and nuclei as revealed by emission and absorption spectra, hyperfine structure, energy levels, electron configurations, and elementary quantum mechanics. Prereq., 113-114—General Physics. (1st sem., yearly.)

325. MECHANICS LABORATORY (1 or 2) Pierce  
 Kater's pendulum, impact, moment of inertia, gyroscope, viscosity, bending of beams, coupled pendulums. Prereq., 113-114—General Physics. (1st. sem., 1957-1958.)
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—General Physics. (1st sem., 1956-1957.)
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—General Physics. (1st sem., 1957-1958.)
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—General Physics. (2nd sem., yearly.)
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. Study of ballistic galvanometer, dielectric constants, magnetic hysteresis, transients. Prereq., 113-114—General Physics. (1st sem., yearly.)
330. X-RAYS AND RADIOACTIVITY LABORATORY (1 to 3) Edwards  
 Crystal analysis, X-ray spectral distribution, absorption coefficients and limits, Moseley's law, curved crystal spectrograph. Geiger counters, pulse height and coincidence analysis. Radioactive decay and radiation study. Prereq., 113-114—General Physics. (2nd sem., yearly.)
- 349-350. ATOMIC AND NUCLEAR PHYSICS (3-3) Edwards  
 Phys. 349, introduction to atomic physics; Phys. 350, introduction to nuclear physics. Intended for students in physics, chemistry, mathematics or engineering. Topics include elementary particles, quantum theory of radiation, nuclear energy and reactions. Prereq., 113-114—General Physics. (Yearly.)
352. QUANTUM MECHANICS (3) Gallaher  
 The philosophy and methods of selected topics including Schroedinger's equation, simple barrier problems, eigenfunctions for the rigid rotator and the linear harmonic oscillator. Prereq., 113-114—General Physics, 201—Mechanics, and Math. 315. (2nd sem., 1957-1958.)
361. MINOR PROBLEMS IN PHYSICS (1 to 3) 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.
365. NUCLEAR REACTOR THEORY AND PRACTICE (3) Randall  
 Nuclear physics and neutron theory used in reactors; declassified applications to reactor engineering practice, operation, design and materials. Intended for scientists and engineers interested in atomic energy. Prereq., 113-114—General Physics. (1st sem., 1957-1958.)

- 405-406. THEORETICAL PHYSICS** (4-4) Smith  
Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamilton-Jacobi equations, statistical mechanics, kinetic theory, electromagnetic theory. Prereq., 113-114—General Physics, Math. 315, and permission. (1956-1957.)
- 410. HIGH ENERGY PARTICLES** (3) Randall  
Theory and experimental methods of current problems concerning electrons, mesons, neutrons, and protons from cosmic rays and particle accelerators. Prereq., 14 hrs. (2nd sem., 1957-1958.)
- 481. RESEARCH IN PHYSICS** (1 to 3) The Staff  
Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.
- 491. SEMINAR IN PHYSICS** (1) The Staff  
Prereq., 15 hrs.
- 495. THESIS** (1 to 6) The Staff  
Prereq., permission.

**PSYCHOLOGY**

Professors Lehman, A. C. Anderson,  
Patrick (chairman), Scott, Paulsen, Gentry  
Assistant Professors Pullen, Klare, Blackwood, Nygaard  
Instructor Cable

To begin a graduate major in psychology the student must present an undergraduate scholastic average of 3.0 (B) in the major field, or B level scores on the Graduate Record Examination or the Miller Analogies Test, with a minimum of 18 hours of psychology or equivalent work, as approved by the department.

To begin a graduate minor in psychology, a minimum of 8 hours in psychology is required.

Although the emphasis in the master's degree program is directed toward preparation for further study, specialization is afforded in the areas of experimental, clinical and personnel psychology, and for the position of school psychologist.

All graduate majors are expected to attend a monthly non-credit seminar.

- 301. ADVANCED EXPERIMENTAL PSYCHOLOGY** (3) Nygaard, Blackwood, Klare  
Research on a topic selected by the student. Prereq., 9 hrs., including 209—Experimental Psychology. (2nd sem., 1956-1957.)
- 303. MENTAL MEASUREMENTS** (3) Cable, Pullen  
The administration, methods, and results of individual and group intelligence tests. 2 lec., 1 lab. Prereq., 9 hrs. and a course in statistics. (Each semester.)
- 307. COMPARATIVE AND GENETIC PSYCHOLOGY** (3) Blackwood, Nygaard  
Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec., 2 lab. Prereq., 9 hrs., or 6 hrs. and 6 hrs. of zoology. (1st sem., yearly.)

## 309. MOTIVATION AND EMOTIONS (3) Patrick, Blackwood

The dynamics of animal and human behavior: a study of drives, desires, incentives; a study of emotion in relation to frustration of motives. Prereq., 9 hrs. (2nd sem., 1956-1957.)

## 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., 9 hrs. (1st sem., yearly.)

## 312. ABNORMAL PSYCHOLOGY (3) Scott, Pullen

Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; methods of studying abnormal and mental processes. Clinics at hospitals. 2 lec., 1 lab. Prereq., 9 hrs. or 6 hrs. and 6 hrs. zoology. (2nd sem., yearly.)

## 313. CRITICAL EVALUATION OF CURRENT PSYCHOLOGICAL LITERATURE (3) Scott, Blackwood

The purpose is to give majors 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. Prereq., 12 hrs. and permission. (1st sem., yearly.)

## 315. SOCIAL PSYCHOLOGY (3) Anderson, 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., 3 hrs. of sociology. (2nd sem., yearly.)

## 316. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (2) Lehman, Pullen

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., 9 hrs. (1st sem., 1957-1958.)

## 319. PSYCHOLOGY OF PERSONALITY (3) Gentry, Pullen

The nature of personality, as revealed in interrelations to biological, psychological, and cultural concepts. Prereq., 9 hrs. (1st sem., yearly.)

## 320. PERSONNEL AND VOCATIONAL COUNSELING (3) Klare, Paulsen

Methods and techniques useful in considering personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 9 hrs. including 231—Employee Selection and Placement. (2nd sem., yearly.)

## 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., 9 hrs. and permission. (Each semester.)

## 335. HISTORY OF PSYCHOLOGY (2) Scott

The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 9 hrs. (1st sem., yearly.)

## 337. COUNSELING AND PSYCHOTHERAPY (3) Patrick, Pullen

Analysis, evaluation, and practice in use of techniques and procedures in counseling and psychotherapy. Prereq., 9 hrs. (2nd sem., yearly.)

341. **PSYCHOLOGY OF COMMUNICATION** (3) Klare  
A psychological approach to the process of communication, with applications to problems in the social sciences. Prereq., 12 hrs. and permission. (1st sem., yearly.)
401. **SYSTEMS OF PSYCHOLOGY** (3) Nygaard, Blackwood  
A critical analysis and comparison of modern psychological theory. Prereq., 15 hrs. and permission. (2nd sem., 1957-1958.)
402. **PERCEPTION** (3) Nygaard, Klare  
The psychological principles of perception involving the study of impersonal (time, space, motion) and personal (social) phenomena. Prereq., 15 hrs. (2nd sem., 1957-1958.)
406. **AN INTRODUCTION TO PSYCHODIAGNOSIS** (3) Pullen, Patrick  
A survey and practice of methods and techniques in diagnosing and evaluating personality disorders. Prereq., 303 and 310 or 312. (2nd sem., yearly.)
423. **RESEARCH METHODS AND TECHNIQUES** (2) Paulsen, Klare  
Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Maximum credit in course, 6 hrs. Prereq., 15 hrs. (1st sem., yearly.)
433. **LEARNING AND MEMORY** (3) Anderson, Nygaard  
Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 15 hrs. (2nd sem., yearly.)
481. **RESEARCH IN PSYCHOLOGY** (1 to 6) 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. (2nd sem., 1957-1958.)
495. **THESIS** (1 to 6) The Staff  
Prereq., permission.

## RADIO—See Dramatic Art and Speech

## ROMANCE LANGUAGES

Professors Noss, Wilkinson, Ondis  
Associate Professors Renkenberger, Rice (chairman)

To begin a graduate major in Romance languages, the student should have 28 hours of undergraduate work in one Romance language.

To begin a graduate minor in Romance languages, the student should have 16 hours of undergraduate work in one Romance language.

Graduate students majoring in Romance languages are required to take 4 hours in Romance Philology in courses above 400.

## FRENCH

- 301, 302. **SURVEY OF FRENCH LITERATURE** (3, 3) The Staff  
A general view of French literature from the beginnings. Special topics for investigation by advanced students. Collateral readings and reports. (1957-1958.)



- 303, 304. READINGS FROM FRENCH LITERATURE (3, 3) The Staff  
 Selections vary with the needs of the class or the student. (Given on sufficient demand.)
- 305, 306. THE FRENCH NOVEL (3, 3) The Staff  
 History of the novel in France from the Middle Ages to modern times. (1956-1957.)
- 319, 320. FRENCH ROMANTICISM (3, 3) The Staff  
 A study of the development of lyric poetry, the novel and the drama during the first half of the nineteenth century. (1956-1957.)
328. SIXTEENTH CENTURY FRENCH LITERATURE (3) Rice  
 Development of French thought during the Renaissance. Prereq., 6 hrs. beyond 102—Intermediate French. (Given on sufficient demand.)
- 331, 332. SEVENTEENTH CENTURY FRENCH LITERATURE (3, 3) The Staff  
 Seventeenth century French literature with the exception of the drama. (Given on sufficient demand.)
- 339, 340. NINETEENTH CENTURY FRENCH DRAMA (3, 3) The Staff  
 History of the French drama beginning with the preromantic movement. Special topics for investigation. Collateral readings and reports. (1956-1957.)
- 361-362. ADVANCED FRENCH GRAMMAR (3-3) Wilkinson  
 (1957-1958.)
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—Intermediate French, and permission. (Given on sufficient demand.)
- 421-422. ROMANCE PHILOLOGY (OLD FRENCH)  
 See Romance Philology.
495. THESIS (1 to 6) The Staff  
 Prereq., permission.

## ITALIAN

- 301, 302. SURVEY OF ITALIAN LITERATURE (3, 3) The Staff  
 (Given on sufficient demand.)
- 303, 304. READINGS FROM ITALIAN LITERATURE (3, 3) The Staff  
 Selections may vary with the needs of the class. (Given on sufficient demand.)
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—Intermediate Italian. (Given on sufficient demand.)
495. THESIS (1 to 6) The Staff  
 Prereq., permission.

## ROMANCE PHILOLOGY

- 325-326. GENERAL ROMANCE LINGUISTICS (2-2) The Staff  
 Introduction to graduate courses in philology. Prereq., Intermediate Fr., It., Lat., or Sp. 102. (Given on sufficient demand.)

- 421-422. ROMANCE PHILOLOGY (OLD FRENCH) (2-2) The Staff  
Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. R. Philol. 326 is advised but not required. (Given on sufficient demand.)
- 441-442. ROMANCE PHILOLOGY (OLD SPANISH) (2-2) The Staff  
Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or in Latin. R. Philol. 326 is advised but not required. (Given on sufficient demand.)
495. THESIS (1 to 6) The Staff  
Prereq., permission

## SPANISH

- 301, 302. SURVEY OF SPANISH LITERATURE (3, 3) The Staff  
Historic and literary study of Spain from the Middle Ages to the present time. (1956-1957.)
- 303, 304. READINGS FROM SPANISH LITERATURE (3, 3) The Staff  
Selections vary with the needs of the class and the student. (Given on sufficient demand.)
- 305, 306. THE SPANISH DRAMA (3, 3) The Staff  
Sp. 305 traces the drama in Spain from its origins to 1700; Sp. 306, from 1700 to the present. (1956-1957.)
- 315, 316. THE SPANISH NOVEL (3, 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. (Given on sufficient demand.)
- 351, 352. ADVANCED SPANISH GRAMMAR (3, 3) Ondis  
Peculiarities of Spanish grammar and syntax. Analysis of difficult texts. Free composition and oral reports. (1957-1958.)
381. RESEARCH IN SPANISH LANGUAGE AND LITERATURE (1 to 4) The Staff  
Prereq., 12 hrs. beyond 102—Intermediate Spanish, and permission. Maximum credit in course, 6 hrs.
- 441-442. ROMANCE PHILOLOGY (OLD SPANISH)  
See Romance Philology.
495. THESIS (1 to 6) The Staff  
Prereq., permission.

## SCULPTURE—See Art

- SOCIOLOGY** Associate Professors Jeddelloh, Harlan (chairman)  
Assistant Professors Worstell, Eggers, Park

A graduate major in sociology may follow either of two programs leading to the master's degree.

*Option 1:* a 32-semester-hour program of preparation for teaching, research, or advanced graduate training. Requirements: undergraduate preparation, 10 semester hours in sociology, 12 hours in other social sciences or in specifically approved courses in related fields; graduate,

24 to 26 hours in sociology, including 3 to 6 hours devoted to the preparation of a thesis, and a minor of 8 hours in a related field.

*Option II:* an alternate program for a limited number of students who desire more intensive academic preparation accompanied by an internship and additional research, involving 8 to 12 semester hours beyond the usual M.A. program. Information regarding requirements may be obtained from the Dean of the Graduate College.

A graduate minor in sociology may be begun on the basis of 6 undergraduate credits in the field.

**301, 302. SOCIAL RESEARCH METHODS (2, 2) The Staff**

Soc. 301 is concerned with the principles of scientific method and with the theoretical and practical problems of research planning.

Soc. 302 is an intensive study of major methods of social research, including the application of statistical techniques to sociological data. Should be taken in conjunction with 381 or 495. Prereq., 301 and either Math. 107—Elementary Statistics, Stat. 155—Business Statistics, or Ed. 381—Educational Statistics. (Yearly.)

**303. SOCIOLOGICAL THEORY (2) The Staff**

Origins and development of sociology; major European and American contributors; current trends and the status of specialized fields of interest. (Yearly.)

**311. CRIMINOLOGY AND PENOLOGY (3) Jeddloh**

An introduction to modern criminology and the correctional treatment of offenders. Field visits to courts and correctional institutions. (Yearly.)

**315. FOLK COMMUNITIES (3) Park**

Comparative study of primary village communities in various societies; the impact of Western technology and institutions; the disorganization of folk cultures. Prereq., 10-12 hrs. (1957-1958.)

**318. WORLD POPULATION TRENDS (2) The Staff**

Present rates of growth of world population; problem areas; population pressure, technological development and nationalism; current national and international policies and programs. Prereq., 209—Introduction to the Study of Population, or 9 hrs. in social sciences. (1957-1958.)

**320. INDUSTRIAL SOCIOLOGY (3) The Staff**

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., 9 hrs. in social science. (1957-1958.)

**321. CONTEMPORARY SOCIAL MOVEMENTS (3) The Staff**

Characteristics and objectives of various types of social movements; reform and revolution; leaders, ideologies, tactics; case studies of typical movements. Prereq., 9 hrs. in social sciences. (1957-1958.)

**322. JUVENILE DELINQUENCY (3) Jeddloh**

Factors associated with delinquency; characteristics of delinquents; juvenile courts and clinics; probation, correctional training; delinquency prevention. Field visits. Prereq., 9 hrs. of sociology or psychology. (Yearly.)

**325. PERSONALITY AND SOCIETY (3) Harlan**

Differences in socialization of the child according to culture and social class; basic personality types; expressive symbolizations of personality structure. Prereq., 210—Social Behavior, or 9 hrs. of sociology or psychology. (Yearly.)

326. DYNAMICS OF INTERPERSONAL RELATIONS (2) Eggers  
 Analysis of episodes of group interaction; role playing as an experimental device in the study of interpersonal relations; theories concerning the development of competence in interpersonal relations. Prereq., 210—Social Behavior, or 9 hrs. of psychology. (Yearly.)
330. CURRENT SOCIOLOGICAL LITERATURE (1) The Staff  
 Journals, monographs, textbooks; professional organizations; advanced training in sociology and related fields. Prereq., 9 hrs. (Yearly.)
336. PUBLIC OPINION AND MASS COMMUNICATIONS (3) Harlan  
 The processes of opinion-formation; relation to public policy decisions; public opinion polls; organization and control of mass media; nature and effects of propaganda. Prereq., 9 hrs. in social sciences. (1957-1958.)
370. IN-SERVICE TRAINING (1 to 3) The Staff  
 Individually arranged work experience under responsible supervision; advance planning and departmental approval; periodic reports. Prereq., 12 hrs. (Yearly.)
375. SENIOR SEMINAR (2) The Staff  
 Required of all senior majors in last semester of residence. Includes comprehensive examination covering required courses and electives submitted for major. Prereq., 28 hrs. completed or in progress. (Yearly.)
381. RESEARCH PROBLEMS IN SOCIOLOGY (1 to 3) The Staff  
 Individual research; may be coordinated with other student or staff research. Maximum credit in course, 6 hrs. Prereq., 12 hrs. and permission. (Yearly.)
470. INTERNSHIP (3 to 6) The Staff  
 Full-time placement for research and training in positions in juvenile courts, business and industrial firms, governmental agencies, etc. 3 to 6 months. Prereq., candidacy for M.A. degree. (Yearly.)
491. SEMINAR (3) The Staff  
 Topic announced each term. Maximum credit in course, 6 hrs. Prereq., 15 hrs. (Yearly.)
495. THESIS (1 to 6) The Staff  
 Prereq., permission.

#### SOCIAL WORK

339. INTRODUCTION TO SOCIAL CASE WORK (3) Worstell  
 The development of social case work; analysis of basic principles; problems and methods as seen in theoretical and case material. Prereq., 133—Social Work in the American Community, 234—Child Welfare, and specific consent of the instructor. (Yearly.)
341. FIELD SERVICES (2) Worstell  
 In-service observation of agency functions and methods; assignment to specific work responsibilities; conferences with training supervisor. Three afternoons each week. Maximum credit in course, 4 hrs. Prereq., 339 and specific consent of the instructor. (Yearly.)

SPANISH—See Romance Languages

## SPEECH AND SPEECH CORRECTION—See Dramatic Art and Speech

## STATISTICS

Assistant Professor Soltow (chairman)

A graduate major in Statistics is not available. A minor may be developed in this area of study.

## 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., 155—Business Statistics.

## 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., 155 or with 155—Business Statistics.

## 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., 155 or with 155—Business Statistics.

## 381. RESEARCH IN BUSINESS STATISTICS (1 to 8) The Staff

Prereq., 18 hrs. of commerce and permission.

## 391. SEMINAR IN BUSINESS STATISTICS (2 to 4) The Staff

Maximum credit in course, 10 hrs. Prereq., 18 hrs. of commerce and permission.

## ZOOLOGY

Professors Elliott, Frey (chairman), Stehr

Associate Professors Rowles, Seibert

Assistant Professors Lawrence, McQuate, Southwick

Instructor Fitch

For a graduate major in zoology the student will usually be expected to have completed at least 18 hours of approved subjects in zoology or in related fields approved by the department.

For a graduate minor a student will usually be expected to have completed a minimum of 10 hours in zoology or in related fields approved by the department.

## 301. MAMMALIAN ANATOMY (4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec., 4 lab. Prereq., 120—Comparative Vertebrate Anatomy. (1st sem., yearly.)

## 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., 6 lab. Prereq., 120—Comparative Vertebrate Anatomy. (2nd sem., yearly.)

## 304. HISTOLOGY (4) Southwick

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the various body systems. 2 lec., 4 lab. Prereq., 120—Comparative Vertebrate Anatomy or 121—Elements of Anatomy. (2nd sem., yearly.)

- 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. Organic Chemistry desirable. 2 lec., 6 lab. Prereq., 120—Comparative Vertebrate Anatomy or 121—Elements of Anatomy, and Chem. 2 or 4—General Chemistry. (1st sem., yearly.)
- 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 graduate students in physiology or physical education and athletics. Prereq., 133-134—Anatomy, Kinesiology, and Physiology, or 120—Comparative Vertebrate Anatomy (or 121—Elements of Anatomy), and 235—Elements of Physiology (or 305). (2nd sem., yearly.)
- 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., 4 lab. Prereq., 4 hrs. physiology, Chem. 113—Organic Chemistry, and Chem. 117—Organic Chemistry Laboratory. (1st sem., yearly.)
- 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., 4 lab. Prereq., Chem. 113 or 201—Organic Chemistry. (Each semester.)
- 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., 4 lab. Prereq., 311. (1st sem., yearly.)
- 314. MICROBIOLOGICAL TECHNICIS** (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—Elementary Bacteriology, and Organic Chemistry. (1st sem., yearly.)
- 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., 4 lab., Prereq., 10 hrs. and permission. (2nd sem., yearly.)
- 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., 4 lab. Prereq., 311 or 241—Elementary Bacteriology, and Organic Chemistry. (2nd sem., yearly.)
- 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., 4 lab. Prereq., 219—General Entomology. (1956-1957.)

## 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., 4 lab. Prereq., 10 hrs. and permission. (1957-1958.)

## 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., 4 lab. or field work. Prereq., 216—Animal Communities. (1957-1958.)

## 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.

- a. *Bacteriology*—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey, Lawrence.
- b. *Ecology*—field and laboratory studies of the relation between animals and their surroundings. Seibert, Southwick, Stehr.
- c. *Entomology*—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. *Genetics*—breeding experiments, pedigree analysis, and library work in the field of heredity. McQuote.
- 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. *Technicians' 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, Fitch, McQuote.
- 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. (Given on sufficient demand.)

## 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.

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# OHIO UNIVERSITY

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